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Preface

This preface describes the document accessibility features and conversions used in this guide—WLST Command Reference for WebLogic Server.

Documentation Accessibility

For information about Oracle’s commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>boldface</td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td>italic</td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
1

Introduction and Roadmap

This section describes the audience for and contents and organization of this guide—*WLST Command Reference for WebLogic Server*. This chapter includes the following sections:

- Document Scope and Audience
- Guide to This Document
- Related Documentation
- New and Changed WLST Features in This Release

1.1 Document Scope and Audience

This document describes all of the commands that are available to use with the WebLogic Scripting Tool (WLST). This document includes WLST commands for WebLogic Server.

This document is written for WebLogic Server administrators and operators who deploy Java EE applications using the Java Platform, Enterprise Edition (Java EE) from Oracle. It is assumed that readers are familiar with Web technologies and the operating system and platform where WebLogic Server is installed.

1.2 Guide to This Document

This document is organized as follows:

- This chapter, Introduction and Roadmap, introduces the organization of this guide and lists related documentation.
- *WebLogic Server WLST Online and Offline Command Reference* summarizes WebLogic Server WLST commands alphabetically and by online/offline usage.
- *WLST Command and Variable Reference* provides detailed descriptions for each of the WebLogic Server WLST commands and variables.

1.3 Related Documentation

For information about how to use the WebLogic Scripting Tool, refer to *Understanding the WebLogic Scripting Tool*. For information about WLST commands for other Fusion Middleware products, see:

- *WLST Command Reference for Infrastructure Components*
- *WLST Command Reference for SOA Suite*

WLST is one of several interfaces for managing and monitoring WebLogic Server. For information about the other management interfaces, see:
• Using Ant Tasks to Configure and Use a WebLogic Server Domain in *Developing Applications for Oracle WebLogic Server*, describes using WebLogic Ant tasks for starting and stopping WebLogic Server instances and configuring WebLogic domains.

• Deployment Tools in *Deploying Applications to Oracle WebLogic Server* describes several tools that WebLogic Server provides for deploying applications and stand-alone modules.

• *WebLogic Server Administration Console Online Help* describes a Web-based graphical user interface for managing and monitoring WebLogic domains.

• *Creating WebLogic Domains Using the Configuration Wizard* describes using a graphical user interface to create a WebLogic domain or extend an existing one.

• *Creating Templates and Domains Using the Pack and Unpack Commands* describes commands that recreate existing WebLogic domains quickly and easily.

• *Developing Custom Management Utilities Using JMX for Oracle WebLogic Server* describes using Java Management Extensions (JMX) APIs to monitor and modify WebLogic Server resources.

• *Monitoring Oracle WebLogic Server with SNMP* describes using Simple Network Management Protocol (SNMP) to monitor WebLogic domains.

For information about WLST commands for Fusion Middleware components other than WebLogic Server, refer to *WLST Command Reference for Infrastructure Components*, which describes the WLST commands that are available for Oracle Fusion Middleware core components, including Java Required Files (JRF), Web services, Metadata services (MDS), Application Development Framework (ADF), Dynamic Monitoring Service (DMS), Logging, Diagnostic Framework, User Messaging Service (UMS), and Enterprise Scheduling Service (ESS).

### 1.4 New and Changed WLST Features in This Release

For a comprehensive listing of the new WebLogic Server features introduced in this release, see What's New in Oracle WebLogic Server 12.2.1.3.0.
WebLogic Server WLST Online and Offline Command Reference

The WebLogic Scripting Tool (WLST) is a Jython-based command-line scripting environment that you can use to create, manage, and monitor WebLogic domains. See a summary of the WLST commands for Oracle WebLogic Server, listed in alphabetical order, along with an indication whether a command can be used in offline mode, online mode, or both.

This chapter includes the following sections:

• WebLogic Server WLST Command Summary, Alphabetically By Command
• WebLogic Server WLST Online Command Summary
• WebLogic Server WLST Offline Command Summary

Note:
You can list a summary of all online and offline commands from the command-line using the following commands, respectively:

```
help("online")
help("offline")
```

2.1 WebLogic Server WLST Command Summary, Alphabetically By Command

See an alphabetical listing of every WebLogic Server WLST command. The following table includes a summary of each WebLogic Server WLST command. For each command, this table indicates whether the command can be used in online mode, offline mode, or both.

Table 2-1  WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>activate</td>
<td>Activate changes saved during the current editing session but not yet deployed.</td>
<td>Online</td>
</tr>
<tr>
<td>activateDebugPatch</td>
<td>Activate a debug patch on specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>addHelpCommand</td>
<td>Add new command help for a command to an existing command group. Once added to the group, the command (along with a brief description) is displayed in the command list for the group when you enter the help('commandGroup') command.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
### Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>Command</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>addHelpCommandGroup</td>
<td>Add a new help command group to those shown by the WLST help() command.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>addListener</td>
<td>Add a JMX listener to the specified MBean.</td>
<td>Online</td>
</tr>
<tr>
<td>addStartupGroup</td>
<td>Add a new server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>addTemplate</td>
<td>Extend the current WebLogic domain using an application or service extension template.</td>
<td>Offline</td>
</tr>
<tr>
<td>assign</td>
<td>Assign resources to one or more destinations.</td>
<td>Offline</td>
</tr>
<tr>
<td>cancelEdit</td>
<td>Cancel an edit session, release the edit lock, and discard all unsaved changes.</td>
<td>Online</td>
</tr>
<tr>
<td>captureAndSaveDiagnosticImage</td>
<td>Capture a diagnostic image and downloads it to the client.</td>
<td>Online</td>
</tr>
<tr>
<td>cd</td>
<td>Navigate the hierarchy of configuration or runtime beans.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>clone</td>
<td>Clone the server object.</td>
<td>Offline</td>
</tr>
<tr>
<td>closeDomain</td>
<td>Close the current WebLogic domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>closestore</td>
<td>Close a store.</td>
<td>Offline</td>
</tr>
<tr>
<td>closeTemplate</td>
<td>Close the current domain template.</td>
<td>Offline</td>
</tr>
<tr>
<td>compactStore</td>
<td>Compact and defragments the space occupied by a file store.</td>
<td>Offline</td>
</tr>
<tr>
<td>configToScript</td>
<td>Convert an existing server configuration (config directory) to an executable WLST script.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>connect</td>
<td>Connect WLST to a WebLogic Server instance.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>create</td>
<td>Create a configuration bean of the specified type for the current bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>createDomain</td>
<td>Create a WebLogic domain using the specified template.</td>
<td>Offline</td>
</tr>
<tr>
<td>createEditSession</td>
<td>Create a new edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>createSystemResourceControl</td>
<td>Create a diagnostics resource from an external descriptor file.</td>
<td>Online</td>
</tr>
<tr>
<td>currentTree</td>
<td>Return the current location in the hierarchy.</td>
<td>Online</td>
</tr>
<tr>
<td>custom</td>
<td>Navigate to the root of custom MBeans that are registered in the Runtime MBean Server.</td>
<td>Online</td>
</tr>
<tr>
<td>deactivateAllDebugPatches</td>
<td>Deactivate all debug patches on specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>deactivateDebugPatches</td>
<td>Deactivate debug patches on specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>delete</td>
<td>Delete an instance of a configuration bean of the specified type for the current configuration bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deleteFEHost</td>
<td>Delete the Frontend host for a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>deleteStartupGroup</td>
<td>Delete a server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>deploy</td>
<td>Deploy an application to a WebLogic Server instance.</td>
<td>Online</td>
</tr>
</tbody>
</table>
### Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>destroySystemResourceControl</td>
<td>Destroy a Diagnostics system resource control.</td>
<td>Online</td>
</tr>
<tr>
<td>destroyEditSession</td>
<td>Remove the specified edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>disableSystemResource</td>
<td>Deactivate a diagnostic system resource control that is activated on a server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>disconnect</td>
<td>Disconnect WLST from a WebLogic Server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>distributeApplication</td>
<td>Copy the deployment bundle to the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>domainConfig</td>
<td>Navigate to the last MBean to which you navigated in the domain configuration hierarchy or to the root of the hierarchy, DomainMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>domainCustom</td>
<td>Navigate to the tree of custom MBeans that are registered in the Domain Runtime MBean Server.</td>
<td>Online</td>
</tr>
<tr>
<td>domainRuntime</td>
<td>Navigate to the last MBean to which you navigated in the domain runtime hierarchy or to the root of the hierarchy, DomainRuntimeMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>dumpDiagnosticData</td>
<td>Dump the diagnostics data from a harvester to a local file.</td>
<td>Online</td>
</tr>
<tr>
<td>dumpStack</td>
<td>Display a stack trace from the last exception that occurred while performing a WLST action, and reset the stack trace.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>dumpstore</td>
<td>Dump store contents in human-readable format to an XML file.</td>
<td>Offline</td>
</tr>
<tr>
<td>dumpVariables</td>
<td>Display all variables used by WLST, including their name and value.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>edit</td>
<td>Navigate to the last MBean to which you navigated in the configuration edit MBean hierarchy or to the root of the hierarchy, DomainMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>editCustom</td>
<td>Navigate to the root of custom MBeans.</td>
<td>Online</td>
</tr>
<tr>
<td>encrypt</td>
<td>Encrypt the specified string.</td>
<td>Online</td>
</tr>
<tr>
<td>enableOverwriteComponentChanges</td>
<td>Overwrite changes to all system components during activation.</td>
<td>Online</td>
</tr>
<tr>
<td>enableSystemResource</td>
<td>Activate a diagnostic system resource on a server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>exit</td>
<td>Exit WLST from the user session and close the scripting shell.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>exportDiagnosticData</td>
<td>Execute a query against the specified log file.</td>
<td>Offline</td>
</tr>
<tr>
<td>exportDiagnosticData FromServer</td>
<td>Execute a query on the server side and retrieves the exported WebLogic Diagnostic Framework (WLDF) data.</td>
<td>Online</td>
</tr>
<tr>
<td>exportHarvestedTimeSeriesData</td>
<td>Export the harvested metric data within the specified interval in CSV format.</td>
<td>Online</td>
</tr>
<tr>
<td>exportHarvestedTimeSeriesDataOffline</td>
<td>Export the harvested metric data in offline mode within the specified interval in CSV format.</td>
<td>Offline</td>
</tr>
<tr>
<td>exportPartition</td>
<td>Export a domain partition into a partition archive.</td>
<td>Online</td>
</tr>
<tr>
<td>forceShutdownPartitionWait</td>
<td>Shut down a domain partition and wait until the partition has shut down.</td>
<td>Online</td>
</tr>
</tbody>
</table>
### Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command…</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>get</code></td>
<td>Return the value of the specified attribute.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td><code>getActivationTask</code></td>
<td>Return the latest <code>ActivationTask</code> MBean on which a user can get status.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getAvailableCapturedImages</code></td>
<td>Return a list of the previously captured diagnostic images.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getAvailableDiagnosticDataAccessorNames</code></td>
<td>Get the diagnostic data accessor names currently available on a server or partition.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getConfigManager</code></td>
<td>Return the latest <code>ConfigurationManagerBean</code> MBean which manages the change process.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getDatabaseDefaults</code></td>
<td>Connect to the database to retrieve schema information.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getFEHostURL</code></td>
<td>Retrieve the settings for a domain's Frontend Host.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getMBean</code></td>
<td>Return the MBean by browsing to the specified path.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getMBI</code></td>
<td>Return the <code>MBeanInfo</code> for the specified <code>MBeanType</code> or the <code>cmo</code> variable.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getNodeManagerHome</code></td>
<td>Get the Node Manager home.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getNodeManagerType</code></td>
<td>Get the Node Manager type.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getNodeManagerUpgradeOverwriteDefault</code></td>
<td>Get the value of the Node Manager upgrade overwrite default flag.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getNodeManagerUpgradeType</code></td>
<td>Get the Node Manager upgrade type used for Node Manager upgrade.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getOldNodeManagerHome</code></td>
<td>Get the old Node Manager home used for Node Manager upgrade.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getopenstores</code></td>
<td>Return a list of opened stores (for script access).</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getstoreconns</code></td>
<td>Return a list of connections in the specified store (for script access).</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getPath</code></td>
<td>Return the MBean path for the specified MBean instance.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getServerGroups</code></td>
<td>Retrieve a list of the server groups of which the specified server is a member.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getStartupGroup</code></td>
<td>Retrieve the server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getTopologyProfile</code></td>
<td>Return the domain topology profile for a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getWLDM</code></td>
<td>Return the WebLogic DeploymentManager object.</td>
<td>Online</td>
</tr>
<tr>
<td><code>importPartition</code></td>
<td>Import a domain partition from a partition archive.</td>
<td>Online</td>
</tr>
<tr>
<td><code>invoke</code></td>
<td>Invoke a management operation on the current configuration bean.</td>
<td>Online</td>
</tr>
<tr>
<td><code>isRestartRequired</code></td>
<td>Determine whether a server restart is required.</td>
<td>Online</td>
</tr>
<tr>
<td><code>jndi</code></td>
<td>Navigate to the JNDI tree for the server to which WLST is currently connected.</td>
<td>Online</td>
</tr>
<tr>
<td><code>listApplications</code></td>
<td>List all applications that are currently deployed in the domain.</td>
<td>Online</td>
</tr>
<tr>
<td><code>listChildTypes</code></td>
<td>List all the children MBeans that can be created or deleted for the <code>cmo</code> object.</td>
<td>Online</td>
</tr>
<tr>
<td><code>listDebugPatches</code></td>
<td>List active and available debug patches on specified targets.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>listDebugPatchTasks</td>
<td>List debug patch tasks from specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>listServerGroups</td>
<td>Retrieve a map of the config-groups.xml server groups that are user-expandable.</td>
<td>Offline</td>
</tr>
<tr>
<td>liststore</td>
<td>List store names, open stores or connections in a store.</td>
<td>Offline</td>
</tr>
<tr>
<td>listSystemResourceControls</td>
<td>List the diagnostic system resources that are currently deployed on a server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>loadApplication</td>
<td>Load an application and deployment plan into memory.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>loadDB</td>
<td>Load SQL files into a database.</td>
<td>Offline</td>
</tr>
<tr>
<td>loadProperties</td>
<td>Load property values from a file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>loadTemplates</td>
<td>Load all the selected templates using select template.</td>
<td>Offline</td>
</tr>
<tr>
<td>lookup</td>
<td>Look up the specified MBean.</td>
<td>Online</td>
</tr>
<tr>
<td>ls</td>
<td>List all child beans and/or attributes for the current configuration or runtime bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>man</td>
<td>Display help from MBeanInfo for the current MBean or its specified attribute.</td>
<td>Online</td>
</tr>
<tr>
<td>mergeDiagnosticData</td>
<td>Merge a set of data files.</td>
<td>Online</td>
</tr>
<tr>
<td>migrate</td>
<td>Migrate services to a target server within a cluster.</td>
<td>Online</td>
</tr>
<tr>
<td>migrateResourceGroup</td>
<td>Migrate a domain partition resource group from one target to another target.</td>
<td>Online</td>
</tr>
<tr>
<td>nm</td>
<td>Determine whether WLST is connected to Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>nmConnect</td>
<td>Connect WLST to Node Manager to establish a session.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmDisconnect</td>
<td>Disconnect WLST from a Node Manager session.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmEnroll</td>
<td>Enroll the machine on which WLST is currently running.</td>
<td>Online</td>
</tr>
<tr>
<td>nmExecScript</td>
<td>Execute the named script using the connected Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>nmGenBootStartupProps</td>
<td>Generate the Node Manager property files, boot.properties and startup.properties, for the specified server.</td>
<td>Online</td>
</tr>
<tr>
<td>nmKill</td>
<td>Kill the specified server instance that was started with Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmLog</td>
<td>Return the Node Manager log.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmRestart</td>
<td>Restart the Node Manager instance.</td>
<td>Online</td>
</tr>
<tr>
<td>nmServerLog</td>
<td>Return the server output log of the server that was started with Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmServerStatus</td>
<td>Return the status of the server that was started with Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmSoftRestart</td>
<td>Restart the specified System Component server instance.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>This command...</td>
<td>Enables you to...</td>
<td>Use with WLST...</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>nmStart</td>
<td>Start a server in the current domain using Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmVersion</td>
<td>Return the Node Manager server version.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>openfilestore</td>
<td>Open a file store.</td>
<td>Offline</td>
</tr>
<tr>
<td>openjdbcstore</td>
<td>Open a JDBC store.</td>
<td>Offline</td>
</tr>
<tr>
<td>prompt</td>
<td>Toggle the display of path information at the prompt.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>pullComponentChanges</td>
<td>Pull the configuration changes of a system component from the remote node.</td>
<td>Online</td>
</tr>
<tr>
<td>purgeCapturedImages</td>
<td>Purge the diagnostic image files on the server as per the age criteria specified.</td>
<td>Online</td>
</tr>
<tr>
<td>purgeDebugPatchTasks</td>
<td>Purge debug patch tasks from specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>pwd</td>
<td>Display the current location in the configuration or runtime bean hierarchy.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>readDomain</td>
<td>Open an existing WebLogic domain for updating.</td>
<td>Offline</td>
</tr>
<tr>
<td>readDomainForUpgrade</td>
<td>Open an existing domain for reconfiguration.</td>
<td>Offline</td>
</tr>
<tr>
<td>readTemplate</td>
<td>Open an existing domain template for WebLogic domain creation.</td>
<td>Offline</td>
</tr>
<tr>
<td>readTemplateForUpdate</td>
<td>Open an existing domain template for template update.</td>
<td>Offline</td>
</tr>
<tr>
<td>redeploy</td>
<td>Reload classes and redeploy a previously deployed application.</td>
<td>Online</td>
</tr>
<tr>
<td>redirect</td>
<td>Redirect WLST output to the specified filename.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>removeListener</td>
<td>Remove a listener that was previously defined.</td>
<td>Online</td>
</tr>
<tr>
<td>resolve</td>
<td>Detect any external modification or conflict, and resolve them.</td>
<td>Online</td>
</tr>
<tr>
<td>resume</td>
<td>Resume a server instance that is suspended or in ADMIN state.</td>
<td>Online</td>
</tr>
<tr>
<td>resync</td>
<td>Resynchronize the configuration files of the specified system component.</td>
<td>Online</td>
</tr>
<tr>
<td>resyncAll</td>
<td>Resynchronize the configuration files of all system components.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutApplications</td>
<td>Roll out updates to specified applications on the targeted servers without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutJavaHome</td>
<td>Roll out a new Java Home for targeted servers without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutOracleHome</td>
<td>Roll out a patched Oracle Home to the targeted server without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>rollingRestart</td>
<td>Initiate a rolling restart of the targeted servers without interrupting the service.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutUpdate</td>
<td>Roll out updates to targeted servers without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>save</td>
<td>Save the edits that have been made but have not yet been saved.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>saveDiagnosticImage</td>
<td>Download the specified diagnostic image capture.</td>
<td>Online</td>
</tr>
<tr>
<td>CaptureFile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>saveDiagnosticImage</td>
<td>Download a specific entry from the diagnostic image capture.</td>
<td>Online</td>
</tr>
<tr>
<td>CaptureEntryFile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>scaleDown</td>
<td>Decrease the number of running dynamic servers in the specified dynamic cluster.</td>
<td>Online</td>
</tr>
<tr>
<td>scaleUp</td>
<td>Increase the number of running dynamic servers for the specified dynamic cluster.</td>
<td>Online</td>
</tr>
<tr>
<td>selectCustomTemplate</td>
<td>Select an existing custom domain template or application template for creating a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>selectTemplate</td>
<td>Select an existing domain template or application template for creating a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>serverConfig</td>
<td>Navigate to the last MBean to which you navigated in the configuration MBean hierarchy or to the root of the hierarchy, DomainMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>serverRuntime</td>
<td>Navigate to the last MBean to which you navigated in the runtime MBean hierarchy or to the root of the hierarchy, ServerRuntimeMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>set</td>
<td>Set the specified attribute value for the current configuration bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>setFEHostURL</td>
<td>Set the plain and SSL URLs for a domain’s Frontend Host and specifies which is the default.</td>
<td>Offline</td>
</tr>
<tr>
<td>setOption</td>
<td>Set options related to a WebLogic domain creation or update.</td>
<td>Offline</td>
</tr>
<tr>
<td>setServerGroups</td>
<td>Set the server groups for the specified server.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>setSharedSecretStoreWithPassword</td>
<td>Set the shared secret store and password.</td>
<td>Offline</td>
</tr>
<tr>
<td>setShowLSResult</td>
<td>Specify whether <code>ls()</code> should log its output to stdout.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>setStartupGroup</td>
<td>Set the server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>setTopologyProfile</td>
<td>Set the domain topology profile.</td>
<td>Offline</td>
</tr>
<tr>
<td>showAvailableTemplates</td>
<td>Display all currently available templates for loading.</td>
<td></td>
</tr>
<tr>
<td>showChanges</td>
<td>Show the changes made by the current user during the current edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>showComponentChanges</td>
<td>Show the changes to the configuration of the specified system component on the remote node.</td>
<td>Online</td>
</tr>
<tr>
<td>showDebugPatchInfo</td>
<td>Display details about a debug patch on specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>showEditSession</td>
<td>Show information about the specified edit sessions.</td>
<td>Online</td>
</tr>
<tr>
<td>showListeners</td>
<td>Show all listeners that are currently defined.</td>
<td>Online</td>
</tr>
<tr>
<td>showTemplates</td>
<td>Display all currently selected and loaded templates.</td>
<td>Offline</td>
</tr>
<tr>
<td>shutdown</td>
<td>Gracefully shut down a running server instance, cluster, or system component.</td>
<td>Online</td>
</tr>
<tr>
<td>softRestart</td>
<td>Restart a system component server instance.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>start</td>
<td>Start a Managed Server instance, cluster, or system component using Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>startApplication</td>
<td>Start an application, making it available to users.</td>
<td>Online</td>
</tr>
<tr>
<td>startEdit</td>
<td>Start a configuration edit session on behalf of the currently connected user.</td>
<td>Online</td>
</tr>
<tr>
<td>startNodeManager</td>
<td>Start Node Manager at default port (5556).</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>startPartitionWait</td>
<td>Start a domain partition and waits until the partition has started.</td>
<td>Online</td>
</tr>
<tr>
<td>startRecording</td>
<td>Record all user interactions with WLST; useful for capturing commands to replay.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>startServer</td>
<td>Start the Administration Server.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>state</td>
<td>Returns a map of servers or clusters and their state using Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>stopApplication</td>
<td>Stop an application, making it un available to users.</td>
<td>Online</td>
</tr>
<tr>
<td>stopEdit</td>
<td>Stop the current edit session, release the edit lock, and discard unsaved changes.</td>
<td>Online</td>
</tr>
<tr>
<td>stopNodeManager</td>
<td>Stop Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>stopRecording</td>
<td>Stop recording WLST commands.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>stopRedirect</td>
<td>Stop the redirection of WLST output to a file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>storeUserConfig</td>
<td>Create a user configuration file and an associated key file.</td>
<td>Online</td>
</tr>
<tr>
<td>suspend</td>
<td>Suspend a running server.</td>
<td>Online</td>
</tr>
<tr>
<td>threadDump</td>
<td>Display a thread dump for the specified server.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>undeploy</td>
<td>Undeploy an application from the specified servers.</td>
<td>Online</td>
</tr>
<tr>
<td>updateApplication</td>
<td>Update an application configuration using a new deployment plan.</td>
<td>Online</td>
</tr>
<tr>
<td>updateDomain</td>
<td>Update and save the current domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>unassign</td>
<td>Unassign applications or services from one or more destinations.</td>
<td>Offline</td>
</tr>
<tr>
<td>undeploy</td>
<td>Undeploy an application from the specified servers.</td>
<td>Online</td>
</tr>
<tr>
<td>undo</td>
<td>Revert all unsaved or unactivated edits.</td>
<td>Online</td>
</tr>
<tr>
<td>unselectCustomTem</td>
<td>Deselect the selected custom domain template or application template.</td>
<td>Offline</td>
</tr>
<tr>
<td>plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>unselectTemplate</td>
<td>Deselect the selected domain template or application template.</td>
<td>Offline</td>
</tr>
<tr>
<td>validate</td>
<td>Validate the changes that have been made but have not yet been saved.</td>
<td>Online</td>
</tr>
<tr>
<td>validateConfig</td>
<td>Validate a domain configuration.</td>
<td>Offline</td>
</tr>
<tr>
<td>viewMBean</td>
<td>Display information about an MBean, such as the attribute names and values, and operations.</td>
<td>Online</td>
</tr>
<tr>
<td>writeDomain</td>
<td>Write the domain configuration information to the specified directory.</td>
<td>Offline</td>
</tr>
</tbody>
</table>
Table 2-1  (Cont.) WebLogic Server WLST Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>writeIniFile</td>
<td>Convert WLST definitions and method declarations to a Python (.py) file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>writeTemplate</td>
<td>Write the domain configuration information to the specified domain template.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

2.2 WebLogic Server WLST Online Command Summary

See a summary of the WLST online commands for Oracle WebLogic Server, listed in alphabetical order.

Table 2-2  WebLogic Server WLST Online Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>activate</td>
<td>Activate changes saved during the current editing session but not yet deployed.</td>
</tr>
<tr>
<td>activateDebugPatch</td>
<td>Activate a debug patch on specified targets.</td>
</tr>
<tr>
<td>addHelpCommand</td>
<td>Adds new command help for a command to an existing command group. Once added to the group, the command (along with a brief description) is displayed in the command list for the group when you enter the help('commandGroup') command.</td>
</tr>
<tr>
<td>addHelpCommandGroup</td>
<td>Adds a new help command group to those shown by the WLST help() command, and specifies the resource bundle in which the help information is defined for the group.</td>
</tr>
<tr>
<td>addListener</td>
<td>Add a JMX listener to the specified MBean.</td>
</tr>
<tr>
<td>cancelEdit</td>
<td>Cancel an edit session, release the edit lock, and discard all unsaved changes. This operation can be called by any user with administrator privileges, even if the user did not start the edit session.</td>
</tr>
<tr>
<td>captureAndSaveDiagnosticImage</td>
<td>Capture a diagnostic image and downloads it to the client.</td>
</tr>
<tr>
<td>cd</td>
<td>Navigate the hierarchy of configuration or runtime beans.</td>
</tr>
<tr>
<td>configToScript</td>
<td>Convert an existing server configuration (config directory) to an executable WLST script.</td>
</tr>
<tr>
<td>connect</td>
<td>Connect WLST to a WebLogic Server instance.</td>
</tr>
<tr>
<td>create</td>
<td>Create a configuration bean of the specified type for the current bean.</td>
</tr>
<tr>
<td>createEditSession</td>
<td>Create a new edit session.</td>
</tr>
<tr>
<td>createSystemResourceControl</td>
<td>Creates a diagnostics resource from an external descriptor file.</td>
</tr>
<tr>
<td>currentTree</td>
<td>Return the current tree location.</td>
</tr>
<tr>
<td>custom</td>
<td>Navigate to the root of custom MBeans that are registered in the Runtime MBean Server.</td>
</tr>
<tr>
<td>deactivateAllDebugPatches</td>
<td>Deactivate all debug patches on specified targets.</td>
</tr>
<tr>
<td>deactivateDebugPatches</td>
<td>Deactivate debug patches on specified targets.</td>
</tr>
<tr>
<td>delete</td>
<td>Delete an instance of a configuration bean of the specified type for the current configuration bean.</td>
</tr>
</tbody>
</table>
Table 2-2  (Cont.) WebLogic Server WLST Online Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>deploy</td>
<td>Deploy an application to a WebLogic Server instance.</td>
</tr>
<tr>
<td>destroySystemResourceControl</td>
<td>Destroys a Diagnostics system resource control.</td>
</tr>
<tr>
<td>destroyEditSession</td>
<td>Remove the specified edit session.</td>
</tr>
<tr>
<td>disableSystemResource</td>
<td>Deactivate a diagnostic system resource control that is activated on a server instance.</td>
</tr>
<tr>
<td>disconnect</td>
<td>Disconnect WLST from a WebLogic Server instance.</td>
</tr>
<tr>
<td>distributeApplication</td>
<td>Copy the deployment bundle to the specified targets.</td>
</tr>
<tr>
<td>domainConfig</td>
<td>Navigate to the last MBean to which you navigated in the domain configuration hierarchy or to the root of the hierarchy, DomainMBean.</td>
</tr>
<tr>
<td>domainCustom</td>
<td>Navigate to the tree of custom MBeans that are registered in the Domain Runtime MBean Server.</td>
</tr>
<tr>
<td>domainRuntime</td>
<td>Navigate to the last MBean to which you navigated in the domain runtime hierarchy or to the root of the hierarchy, DomainRuntimeMBean.</td>
</tr>
<tr>
<td>dumpDiagnosticData</td>
<td>Dumps the diagnostics data from a harvester to a local file.</td>
</tr>
<tr>
<td>dumpStack</td>
<td>Display a stack trace from the last exception that occurred, and reset the trace.</td>
</tr>
<tr>
<td>dumpVariables</td>
<td>Display all variables used by WLST, including their name and value.</td>
</tr>
<tr>
<td>edit</td>
<td>Navigate to the last MBean to which you navigated in the configuration edit MBean hierarchy or to the root of the hierarchy, DomainMBean.</td>
</tr>
<tr>
<td>editCustom</td>
<td>Navigate to the root of custom MBeans.</td>
</tr>
<tr>
<td>enableOverwriteComponentChanges</td>
<td>Overwrite changes to all system components during activation.</td>
</tr>
<tr>
<td>enableSystemResource</td>
<td>Activate a diagnostic system resource on a server instance</td>
</tr>
<tr>
<td>encrypt</td>
<td>Encrypt the specified string.</td>
</tr>
<tr>
<td>exit</td>
<td>Exit WLST from the interactive session and close the scripting shell.</td>
</tr>
<tr>
<td>exportDiagnosticDataFromServer</td>
<td>Execute a query on the server side and retrieve the exported WebLogic Diagnostic Framework (WLDF) data.</td>
</tr>
<tr>
<td>exportHarvestedTimeSeriesData</td>
<td>Export the harvested metric data within the specified interval in CSV format.</td>
</tr>
<tr>
<td>exportPartition</td>
<td>Exports a domain partition into a partition archive.</td>
</tr>
<tr>
<td>find</td>
<td>Find MBeans and attributes in the current hierarchy.</td>
</tr>
<tr>
<td>forceShutdownPartitionWait</td>
<td>Shut down a domain partition and wait until the partition has shut down.</td>
</tr>
<tr>
<td>get</td>
<td>Return the value of the specified attribute.</td>
</tr>
<tr>
<td>getActivationTask</td>
<td>Return the latest ActivationTask MBean on which a user can get status.</td>
</tr>
<tr>
<td>getAvailableCapturedImages</td>
<td>Return a list of the previously captured diagnostic images.</td>
</tr>
<tr>
<td>getAvailableDiagnosticDataAccessNames</td>
<td>Get the diagnostic data accessor names currently available on a server or partition.</td>
</tr>
<tr>
<td>getConfigManager</td>
<td>Return the latest ConfigurationManagerBean MBean which manages the change process.</td>
</tr>
<tr>
<td>getMBean</td>
<td>Return the MBean by browsing to the specified path.</td>
</tr>
<tr>
<td>getMBI</td>
<td>Return the MBeanInfo for the specified MBeanType or the cmo variable.</td>
</tr>
<tr>
<td>getPath</td>
<td>Return the MBean path for the specified MBean instance.</td>
</tr>
<tr>
<td>This command</td>
<td>Enables you to</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>getWLDM</code></td>
<td>Return the WebLogicDeploymentManager object.</td>
</tr>
<tr>
<td><code>importPartition</code></td>
<td>Imports a domain partition from a partition archive.</td>
</tr>
<tr>
<td><code>invoke</code></td>
<td>Invoke a management operation on the current configuration bean.</td>
</tr>
<tr>
<td><code>isRestartRequired</code></td>
<td>Determine whether a server restart is required.</td>
</tr>
<tr>
<td><code>jndi</code></td>
<td>Navigates to the JNDI tree for the server to which WLST is currently connected.</td>
</tr>
<tr>
<td><code>listApplications</code></td>
<td>List all applications that are currently deployed in the domain.</td>
</tr>
<tr>
<td><code>listChildTypes</code></td>
<td>List all the children MBeans that can be created or deleted for the <code>cmo</code>.</td>
</tr>
<tr>
<td><code>listDebugPatches</code></td>
<td>List active and available debug patches on specified targets.</td>
</tr>
<tr>
<td><code>listDebugPatchTasks</code></td>
<td>List debug patch tasks from specified targets.</td>
</tr>
<tr>
<td><code>listSystemResourceControls</code></td>
<td>List the diagnostic system resources that are currently deployed on a server instance.</td>
</tr>
<tr>
<td><code>loadApplication</code></td>
<td>Load an application and deployment plan into memory.</td>
</tr>
<tr>
<td><code>loadProperties</code></td>
<td>Load property values from a file.</td>
</tr>
<tr>
<td><code>lookup</code></td>
<td>Look up the specified MBean.</td>
</tr>
<tr>
<td><code>ls</code></td>
<td>List all child beans and/or attributes for the current configuration or runtime bean.</td>
</tr>
<tr>
<td><code>man</code></td>
<td>Display help from <code>MBeanInfo</code> for the current MBean or its specified attribute.</td>
</tr>
<tr>
<td><code>mergeDiagnosticData</code></td>
<td>Merges a set of data files.</td>
</tr>
<tr>
<td><code>migrate</code></td>
<td>Migrate services to a target server within a cluster.</td>
</tr>
<tr>
<td><code>migrateResourceGroup</code></td>
<td>Migrate a domain partition resource group from one target to another target.</td>
</tr>
<tr>
<td><code>nm</code></td>
<td>Determine whether WLST is connected to Node Manager.</td>
</tr>
<tr>
<td><code>nmConnect</code></td>
<td>Connect WLST to Node Manager to establish a session.</td>
</tr>
<tr>
<td><code>nmDisconnect</code></td>
<td>Disconnect WLST from a Node Manager session.</td>
</tr>
<tr>
<td><code>nmEnroll</code></td>
<td>Enroll the machine on which WLST is currently running.</td>
</tr>
<tr>
<td><code>nmExecScript</code></td>
<td>Execute the named script using the connected Node Manager.</td>
</tr>
<tr>
<td><code>nmGenBootStartupProps</code></td>
<td>Generates the Node Manager property files, <code>boot.properties</code> and <code>startup.properties</code>, for the specified server.</td>
</tr>
<tr>
<td><code>nmKill</code></td>
<td>Kill the specified server instance that was started with Node Manager.</td>
</tr>
<tr>
<td><code>nmLog</code></td>
<td>Return the Node Manager log.</td>
</tr>
<tr>
<td><code>nmRestart</code></td>
<td>Restart the Node Manager instance.</td>
</tr>
<tr>
<td><code>nmServerLog</code></td>
<td>Return the server output log of the server that was started with Node Manager.</td>
</tr>
<tr>
<td><code>nmServerStatus</code></td>
<td>Return the status of the server that was started with Node Manager.</td>
</tr>
<tr>
<td><code>nmSoftRestart</code></td>
<td>Restart the specified System Component server instance.</td>
</tr>
<tr>
<td><code>nmStart</code></td>
<td>Start a server in the current domain using Node Manager.</td>
</tr>
<tr>
<td><code>nmVersion</code></td>
<td>Return the Node Manager server version.</td>
</tr>
<tr>
<td><code>prompt</code></td>
<td>Toggle the display of path information at the prompt.</td>
</tr>
<tr>
<td><code>pullComponentChanges</code></td>
<td>Pull the configuration changes of a system component from the remote node.</td>
</tr>
<tr>
<td><code>purgeCapturedImages</code></td>
<td>Purge the diagnostic image files on the server as per the age criteria specified.</td>
</tr>
<tr>
<td>Command</td>
<td>Purpose</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>purgeDebugPatchTasks</td>
<td>Purge debug patch tasks from specified targets.</td>
</tr>
<tr>
<td>pwd</td>
<td>Display the current location in the configuration or runtime bean hierarchy.</td>
</tr>
<tr>
<td>redeploy</td>
<td>Reload classes and redeploy a previously deployed application.</td>
</tr>
<tr>
<td>redirect</td>
<td>Redirect WLST output to the specified filename.</td>
</tr>
<tr>
<td>removeListener</td>
<td>Remove a listener that was previously defined.</td>
</tr>
<tr>
<td>resolve</td>
<td>Detect any external modification or conflict, and resolve them.</td>
</tr>
<tr>
<td>resume</td>
<td>Resume a server instance that is suspended or in ADMIN state.</td>
</tr>
<tr>
<td>resync</td>
<td>Resynchronize the configuration files of the specified system component.</td>
</tr>
<tr>
<td>resyncAll</td>
<td>Resynchronize the configuration files of all system components.</td>
</tr>
<tr>
<td>rolloutApplications</td>
<td>Roll out updates to specified applications on the targeted servers without interrupting service.</td>
</tr>
<tr>
<td>rolloutJavaHome</td>
<td>Roll out a new Java Home for targeted servers without interrupting service.</td>
</tr>
<tr>
<td>rolloutOracleHome</td>
<td>Roll out a patched Oracle Home to the targeted server without interrupting service.</td>
</tr>
<tr>
<td>rollingRestart</td>
<td>Initiate a rolling restart of the targeted servers without interrupting the service.</td>
</tr>
<tr>
<td>rolloutUpdate</td>
<td>Roll out updates to targeted servers without interrupting service.</td>
</tr>
<tr>
<td>save</td>
<td>Save the edits that have been made but have not yet been saved.</td>
</tr>
<tr>
<td>saveDiagnosticImageCaptureFile</td>
<td>Downloads the specified diagnostic image capture.</td>
</tr>
<tr>
<td>saveDiagnosticImageCaptureEntryFile</td>
<td>Downloads a specific entry from the diagnostic image capture.</td>
</tr>
<tr>
<td>scaleDown</td>
<td>Decrease the number of running dynamic servers in the specified dynamic cluster.</td>
</tr>
<tr>
<td>scaleUp</td>
<td>Increase the number of dynamic running servers for the specified dynamic cluster.</td>
</tr>
<tr>
<td>serverConfig</td>
<td>Navigate to the last MBean to which you navigated in the configuration MBean hierarchy or to the root of the hierarchy, DomainMBean.</td>
</tr>
<tr>
<td>serverRuntime</td>
<td>Navigate to the last MBean to which you navigated in the runtime MBean hierarchy or to the root of the hierarchy, ServerRuntimeMBean.</td>
</tr>
<tr>
<td>set</td>
<td>Set the specified attribute value for the current configuration bean.</td>
</tr>
<tr>
<td>setServerGroups</td>
<td>Sets the server groups for the specified server.</td>
</tr>
<tr>
<td>setShowLSResult</td>
<td>Specify whether ls() should log its output to stdout.</td>
</tr>
<tr>
<td>showChanges</td>
<td>Show the changes made by the current user during the current edit session.</td>
</tr>
<tr>
<td>showComponentChanges</td>
<td>Show the changes to the configuration of the specified system component on the remote node.</td>
</tr>
<tr>
<td>showDebugPatchInfo</td>
<td>Display details about a debug patch on specified targets.</td>
</tr>
<tr>
<td>showEditSession</td>
<td>Show information about the specified edit sessions.</td>
</tr>
<tr>
<td>showListeners</td>
<td>Show all listeners that are currently defined.</td>
</tr>
<tr>
<td>shutdown</td>
<td>Gracefully shut down a running server instance, cluster, or system component.</td>
</tr>
<tr>
<td>softRestart</td>
<td>Restart a system component server instance.</td>
</tr>
</tbody>
</table>
### Table 2-2  (Cont.) WebLogic Server WLST Online Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>start</td>
<td>Start a Managed Server instance, cluster, or system component using Node Manager.</td>
</tr>
<tr>
<td>startApplication</td>
<td>Start an application, making it available to users.</td>
</tr>
<tr>
<td>startEdit</td>
<td>Start a configuration edit session on behalf of the currently connected user.</td>
</tr>
<tr>
<td>startNodeManager</td>
<td>Start Node Manager at default port (5556).</td>
</tr>
<tr>
<td>startPartitionWait</td>
<td>Starts a domain partition and waits until the partition has started.</td>
</tr>
<tr>
<td>startRecording</td>
<td>Record all user interactions with WLST; useful for capturing commands to replay.</td>
</tr>
<tr>
<td>startServer</td>
<td>Start the Administration Server.</td>
</tr>
<tr>
<td>state</td>
<td>Returns a map of servers or clusters and their state using Node Manager.</td>
</tr>
<tr>
<td>stopApplication</td>
<td>Stop an application, making it unavailable to users.</td>
</tr>
<tr>
<td>stopEdit</td>
<td>Stop the current edit session, release the edit lock, and discard unsaved changes.</td>
</tr>
<tr>
<td>stopNodeManager</td>
<td>Stop Node Manager.</td>
</tr>
<tr>
<td>stopRedirect</td>
<td>Stop the redirection of WLST output to a file.</td>
</tr>
<tr>
<td>storeUserConfig</td>
<td>Create a user configuration file and an associated key file.</td>
</tr>
<tr>
<td>suspend</td>
<td>Suspend a running server.</td>
</tr>
<tr>
<td>threadDump</td>
<td>Display a thread dump for the specified server.</td>
</tr>
<tr>
<td>undeploy</td>
<td>Undeploy an application from the specified servers.</td>
</tr>
<tr>
<td>undo</td>
<td>Revert all unsaved or unactivated edits.</td>
</tr>
<tr>
<td>updateApplication</td>
<td>Update an application configuration using a new deployment plan.</td>
</tr>
<tr>
<td>validate</td>
<td>Validate the changes that have been made but have not yet been saved.</td>
</tr>
<tr>
<td>viewMBean</td>
<td>Display information about an MBean, such as the attribute names and values, and operations.</td>
</tr>
<tr>
<td>writeIniFile</td>
<td>Convert WLST definitions and method declarations to a Python (.py) file.</td>
</tr>
<tr>
<td>writeTemplate</td>
<td>Writes the domain configuration information to the specified domain template.</td>
</tr>
</tbody>
</table>

### 2.3 WebLogic Server WLST Offline Command Summary

See a summary of the WLST offline commands for Oracle WebLogic Server, listed in alphabetical order.

### Table 2-3  WebLogic Server WLST Offline Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>addHelpCommand</td>
<td>Adds new command help for a command to an existing command group. Once added to the group, the command (along with a brief description) is displayed in the command list for the group when you enter the <code>help('commandGroup')</code> command.</td>
</tr>
</tbody>
</table>
### Table 2-3  (Cont.) WebLogic Server WLST Offline Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>addHelpCommandGroup</td>
<td>Adds a new help command group to those shown by the WLST <code>help()</code> command, and specifies the resource bundle in which the help information is defined for the group.</td>
</tr>
<tr>
<td>addStartupGroup</td>
<td>Adds a new server startup group.</td>
</tr>
<tr>
<td>addTemplate</td>
<td>Extend the current domain using an application or service extension template.</td>
</tr>
<tr>
<td>assign</td>
<td>Assign resources to one or more destinations.</td>
</tr>
<tr>
<td>cd</td>
<td>Navigate the hierarchy of configuration or runtime beans.</td>
</tr>
<tr>
<td>clone</td>
<td>Clones the server object.</td>
</tr>
<tr>
<td>closeDomain</td>
<td>Close the current domain.</td>
</tr>
<tr>
<td>closestore</td>
<td>Closes a store.</td>
</tr>
<tr>
<td>closeTemplate</td>
<td>Close the current domain template.</td>
</tr>
<tr>
<td>compactstore</td>
<td>Compacts and defragments the space occupied by a file store.</td>
</tr>
<tr>
<td>configToScript</td>
<td>Convert an existing server configuration (config directory) to an executable WLST script.</td>
</tr>
<tr>
<td>connect</td>
<td>Connect WLST to a WebLogic Server instance.</td>
</tr>
<tr>
<td>create</td>
<td>Create a configuration bean of the specified type for the current bean.</td>
</tr>
<tr>
<td>createDomain</td>
<td>Creates a WebLogic domain using the specified template.</td>
</tr>
<tr>
<td>delete</td>
<td>Delete an instance of a configuration bean of the specified type for the current configuration bean.</td>
</tr>
<tr>
<td>deleteFEHost</td>
<td>Delete the Frontend host for a domain.</td>
</tr>
<tr>
<td>deleteStartupGroup</td>
<td>Delete a server startup group.</td>
</tr>
<tr>
<td>dumpStack</td>
<td>Display stack trace from the last exception that occurred while performing a WLST action, and reset the stack trace.</td>
</tr>
<tr>
<td>dumpstore</td>
<td>Dumps store contents in human-readable format to an XML file.</td>
</tr>
<tr>
<td>dumpVariables</td>
<td>Display all variables used by WLST, including their name and value.</td>
</tr>
<tr>
<td>exit</td>
<td>Exit WLST from the interactive session and close the scripting shell.</td>
</tr>
<tr>
<td>exportDiagnosticData</td>
<td>Execute a query against the specified log file.</td>
</tr>
<tr>
<td>exportHarvestedTimeSeriesDataOffline</td>
<td>Export the harvested metric data in offline mode within the specified interval in CSV format.</td>
</tr>
<tr>
<td>get</td>
<td>Return the value of the specified attribute.</td>
</tr>
<tr>
<td>getDatabaseDefaults</td>
<td>Connect to the database to retrieve schema information.</td>
</tr>
<tr>
<td>getFEHostURL</td>
<td>Retrieve the settings for a domain’s Frontend Host.</td>
</tr>
<tr>
<td>getNodeManagerHome</td>
<td>Get the Node Manager home.</td>
</tr>
<tr>
<td>getNodeManagerType</td>
<td>Get the Node Manager type.</td>
</tr>
<tr>
<td>getNodeManagerUpgradeOverwriteDefault</td>
<td>Get the value of the Node Manager upgrade overwrite default flag.</td>
</tr>
<tr>
<td>getNodeManagerUpgradeType</td>
<td>Get the Node Manager upgrade type used for Node Manager upgrade.</td>
</tr>
<tr>
<td>getOldNodeManagerHome</td>
<td>Get the old Node Manager home used for Node Manager upgrade.</td>
</tr>
<tr>
<td>Command</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>getopenstores</td>
<td>Return a list of opened stores (for script access).</td>
</tr>
<tr>
<td>getstoreconns</td>
<td>Return a list of connections int he specified store (for script access).</td>
</tr>
<tr>
<td>getServerGroups</td>
<td>Retrieve a list of the server groups of which the specified server is a member.</td>
</tr>
<tr>
<td>getStartupGroup</td>
<td>Retrieve the server startup group.</td>
</tr>
<tr>
<td>getTopologyProfile</td>
<td>Return the domain topology profile for a domain.</td>
</tr>
<tr>
<td>listServerGroups</td>
<td>Retrieve a map of the config-groups.xml server groups that are user-expandable.</td>
</tr>
<tr>
<td>liststore</td>
<td>List store names, open stores or connections in a store.</td>
</tr>
<tr>
<td>loadApplication</td>
<td>Load an application and deployment plan into memory.</td>
</tr>
<tr>
<td>loadDB</td>
<td>Load SQL files into a database.</td>
</tr>
<tr>
<td>loadProperties</td>
<td>Load property values from a file.</td>
</tr>
<tr>
<td>loadTemplates</td>
<td>Load all the selected templates using select template.</td>
</tr>
<tr>
<td>ls</td>
<td>List all child beans and/or attributes for the current configuration or runtime bean.</td>
</tr>
<tr>
<td>nmConnect</td>
<td>Connect WLST to Node Manager to establish a session.</td>
</tr>
<tr>
<td>nmSoftRestart</td>
<td>Restart the specified System Component server instance.</td>
</tr>
<tr>
<td>openfilestore</td>
<td>Open a file store.</td>
</tr>
<tr>
<td>openjdbcstore</td>
<td>Open a JDBC store.</td>
</tr>
<tr>
<td>prompt</td>
<td>Toggle the display of path information at the prompt.</td>
</tr>
<tr>
<td>pwd</td>
<td>Display the current location in the configuration or runtime bean hierarchy.</td>
</tr>
<tr>
<td>readDomain</td>
<td>Open an existing WebLogic domain for updating.</td>
</tr>
<tr>
<td>readDomainForUpgrade</td>
<td>Open an existing domain for reconfiguration</td>
</tr>
<tr>
<td>readTemplate</td>
<td>Open an existing domain template for domain creation.</td>
</tr>
<tr>
<td>readTemplateForUpdate</td>
<td>Open an existing domain template for template update.</td>
</tr>
<tr>
<td>redirect</td>
<td>Redirect WLST output to the specified filename.</td>
</tr>
<tr>
<td>selectCustomTemplate</td>
<td>Select an existing custom domain template or application template for creating a domain</td>
</tr>
<tr>
<td>selectTemplate</td>
<td>Select an existing domain template or application template for creating a domain.</td>
</tr>
<tr>
<td>set</td>
<td>Set the specified attribute value for the current configuration bean.</td>
</tr>
<tr>
<td>setFEHostURL</td>
<td>Set the plain and SSL URLs for a domain's Frontend Host and specifies which is the default.</td>
</tr>
<tr>
<td>setOption</td>
<td>Set options related to a WebLogic domain creation or update.</td>
</tr>
<tr>
<td>setServerGroups</td>
<td>Set the server groups for the specified server.</td>
</tr>
<tr>
<td>setSharedSecretStoreWithPassword</td>
<td>Set the shared secret store and password.</td>
</tr>
<tr>
<td>setShowLSResult</td>
<td>Specify whether ls() should log its output to stdout.</td>
</tr>
<tr>
<td>setStartupGroup</td>
<td>Set the server startup group.</td>
</tr>
<tr>
<td>setTopologyProfile</td>
<td>Set the domain topology profile.</td>
</tr>
<tr>
<td>showTemplates</td>
<td>Display all currently selected and loaded templates.</td>
</tr>
<tr>
<td>showAvailableTemplates</td>
<td>Display all currently available templates for loading.</td>
</tr>
</tbody>
</table>
Table 2-3  (Cont.) WebLogic Server WLST Offline Command Summary

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>startNodeManager</td>
<td>Start Node Manager at default port (5556).</td>
</tr>
<tr>
<td>startRecording</td>
<td>Record all user interactions with WLST; useful for capturing commands to replay.</td>
</tr>
<tr>
<td>startServer</td>
<td>Start the Administration Server.</td>
</tr>
<tr>
<td>stopNodeManager</td>
<td>Stop Node Manager.</td>
</tr>
<tr>
<td>stopRedirect</td>
<td>Stop the redirection of WLST output to a file.</td>
</tr>
<tr>
<td>threadDump</td>
<td>Display a thread dump for the specified server.</td>
</tr>
<tr>
<td>unassign</td>
<td>Unassign applications or services from one or more destinations.</td>
</tr>
<tr>
<td>unselectCustomTemplate</td>
<td>Deselect the selected custom domain template or application template.</td>
</tr>
<tr>
<td>unselectTemplate</td>
<td>Deselect the selected domain template or application template.</td>
</tr>
<tr>
<td>updateDomain</td>
<td>Update and save the current domain.</td>
</tr>
<tr>
<td>validateConfig</td>
<td>Validate a domain configuration.</td>
</tr>
<tr>
<td>writeDomain</td>
<td>Write the domain configuration information to the specified directory.</td>
</tr>
<tr>
<td>writeIniFile</td>
<td>Convert WLST definitions and method declarations to a Python (.py) file.</td>
</tr>
<tr>
<td>writeTemplate</td>
<td>Write the domain configuration information to the specified domain template.</td>
</tr>
</tbody>
</table>
WLST Command and Variable Reference

WebLogic Server includes WLST commands that are targeted to specific management and monitoring tasks, such as connecting to a WebLogic Server instance, navigating the hierarchy of configuration or runtime beans, deploying applications, controlling server life cycle, managing diagnostic data, managing JDBC stores, and more.

This chapter includes the following sections:

• Overview of WLST Command Categories
• Browse Commands
• Control Commands
• Customization Commands
• Deployment Commands
• Diagnostics Commands
• Editing Commands
• Information Commands
• Life Cycle Commands
• Node Manager Commands
• Tree Commands
• Store Administration Commands
• WLST Variable Reference

3.1 Overview of WLST Command Categories

Learn about the categories of WLST commands that are available for managing and monitoring Oracle WebLogic Server.

**Note:**

Refer to Syntax for WLST Commands in *Understanding the WebLogic Scripting Tool* for command syntax requirements.

WLST commands are divided into the following categories.

**Table 3-1  WLST Command Categories**

<table>
<thead>
<tr>
<th>Command Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Browse Commands</td>
<td>Navigate the hierarchy of configuration or runtime beans and control the prompt display.</td>
</tr>
</tbody>
</table>
Table 3-1  (Cont.) WLST Command Categories

<table>
<thead>
<tr>
<th>Command Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Commands</td>
<td>• Connect to or disconnect from a server.</td>
</tr>
<tr>
<td></td>
<td>• Create and configure a WebLogic domain or domain template.</td>
</tr>
<tr>
<td></td>
<td>• Exit WLST.</td>
</tr>
<tr>
<td>Customization Commands</td>
<td>Add the command group help and command help that is displayed by the WLST</td>
</tr>
<tr>
<td></td>
<td>help() and help(&quot;commandGroup&quot;) commands.</td>
</tr>
<tr>
<td>Deployment Commands</td>
<td>• Deploy, undeploy, and redeploy applications and standalone modules to a</td>
</tr>
<tr>
<td></td>
<td>WebLogic Server instance.</td>
</tr>
<tr>
<td></td>
<td>• Update an existing deployment plan.</td>
</tr>
<tr>
<td></td>
<td>• Interrogate the WebLogic Deployment Manager object.</td>
</tr>
<tr>
<td></td>
<td>• Start and stop a deployed application.</td>
</tr>
<tr>
<td>Diagnostics Commands</td>
<td>Export diagnostic data.</td>
</tr>
<tr>
<td>Editing Commands</td>
<td>Interrogate and edit configuration beans.</td>
</tr>
<tr>
<td>Information Commands</td>
<td>Interrogate WebLogic domains, servers, and variables, and provide</td>
</tr>
<tr>
<td></td>
<td>configuration bean, runtime bean, and WLST-related information.</td>
</tr>
<tr>
<td>Life Cycle Commands</td>
<td>Manage the life cycle of a server instance or system component instance.</td>
</tr>
<tr>
<td>Node Manager Commands</td>
<td>Start, shut down, restart, and monitor WebLogic Server instances and system</td>
</tr>
<tr>
<td></td>
<td>component instances using Node Manager.</td>
</tr>
<tr>
<td>Tree Commands</td>
<td>Navigate among MBean hierarchies.</td>
</tr>
<tr>
<td>Store Administration</td>
<td>Manage JDBC stores and file stores.</td>
</tr>
</tbody>
</table>

3.2.1 Browse Commands

Use the WLST browse commands to navigate the hierarchy of configuration or runtime beans and control the prompt display. These commands are listed and summarized in Table 3-2.

Table 3-2  Browse Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>cd</td>
<td>Navigate the hierarchy of configuration or runtime</td>
<td></td>
</tr>
<tr>
<td></td>
<td>beans.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>currentTree</td>
<td>Return the current location in the hierarchy.</td>
<td>Online</td>
</tr>
<tr>
<td>prompt</td>
<td>Toggle the display of path information at the prompt.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>pwd</td>
<td>Display the current location in the hierarchy.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

3.2.1.1 cd

Command Category: Browse Commands
Use with WLST: Online or Offline

Description

Navigates the hierarchy of configuration or runtime beans. This command uses a model that is similar to navigating a file system in a Windows or UNIX command shell. For example, to navigate back to a parent configuration or runtime bean, enter `cd('..')`. The character string .. (dot-dot) refers to the directory immediately above the current directory. To get back to the root bean after navigating to a bean that is deep in the hierarchy, enter `cd('/').`

You can navigate to beans in the current hierarchy and to any child or instance.

The `cd` command returns a stub of the configuration or runtime bean instance, if one exists. If you navigate to a type, this command returns a stub of the configuration or runtime bean instance from which you navigated. In the event of an error, the command returns a `WLSTException`.

Note:

The `cmo` variable is initialized to the root of all domain configuration beans when you first connect WLST to a server instance. It reflects the parent configuration bean type until you navigate to an instance. For more information about the `cmo` variable, see Changing the Current Management Object in Understanding the WebLogic Scripting Tool.

Syntax

`cd(mbeanName)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mbeanName</td>
<td>Path to the bean in the namespace.</td>
</tr>
</tbody>
</table>

Examples

The following example navigates the hierarchy of configuration beans. The first command navigates to the `Servers` configuration bean type, the second, to the `myserver` configuration bean instance, and the last back up two levels to the original directory location.

```
wlst:/mydomain/serverConfig> cd('Servers')
wlst:/mydomain/serverConfig/Servers>
wlst:/mydomain/serverConfig/Servers/myserver>
wlst:/mydomain/serverConfig/myserver> cd('../..')
wlst:/mydomain/serverConfig>
```

3.2.1.2 currentTree

Command Category: Browse Commands

Use with WLST: Online
**Description**

Returns the current location in the hierarchy. It enables you to store the current location in the hierarchy and easily return to it after browsing. In the event of an error, the command returns a WLSTException.

**Syntax**

```
currentTree()
```

**Example**

The following example stores the current location in the hierarchy in `myTree` and uses it to navigate back to the Edit MBean hierarchy from the runtime MBean hierarchy on an Administration Server instance.

```
wls:/mydomain/edit> myTree=currentTree()
wls:/mydomain/edit> serverRuntime()
Location changed to serverRuntime tree. This is a read-only tree with ServerRuntimeMBean as the root.
For more help, use help('serverRuntime')
wls:/mydomain/serverRuntime> myTree()
wls:/mydomain/edit>
```

### 3.2.1.3 prompt

**Command Category**: Browse Commands

**Use with WLST**: Online or Offline

**Description**

Toggles the display of path information at the prompt when entered without an argument. This command is useful when the prompt becomes too long due to the length of the path.

You can also explicitly specify `on` or `off` as an argument to the command. When you specify `off`, WLST hides the WLST prompt and defaults to the Jython prompt. By default, the WLST prompt displays the configuration or runtime navigation path information.

When you disable the prompt details, to determine your current location in the hierarchy, you can use the `pwd` command, as described in `pwd`.

In the event of an error, the command returns a WLSTException.

**Syntax**

```
prompt(myPrompt)
```
### Argument Definition

**myPrompt**

Optional. Hides or displays WLST prompt. Valid values include `off` or `on`.

- The `off` argument hides the WLST prompt.
  
  If you run `prompt('off')`, when using WLST online, the prompt defaults to the Jython prompt. You can create a new prompt using Jython syntax. See [http://www.jython.org](http://www.jython.org). In this case, if you subsequently enter the `prompt` command without arguments, WLST displays the WLST command prompt without the path information. To redisplay the path information, enter `prompt()` again, or enter `prompt('on')`.

- The `on` argument displays the default WLST prompt, including the path information.

### Examples

The following example hides and then redisplays the path information at the prompt.

```plaintext
wls:/mydomain/serverConfig/Servers/myserver> prompt()
wls:/> prompt()
wls:/mydomain/serverConfig/Servers/myserver>
```

The following example hides the prompt and defaults to the Jython prompt (since the command is run using WLST online), changes the Jython prompt, and then redisplays the WLST prompt. This example also demonstrates the use of the `pwd` command.

```plaintext
>>> sys.ps1="myprompt>
myprompt> prompt()
wls:>
pwd()
'serverConfig:Servers/myserver'
wls:>
prompt()
wls:/mydomain/serverConfig/Servers/myserver>
```

#### Note:


```plaintext
wls:/mydomain/serverConfig/Servers/myserver> prompt('off')
```

3.2.1.4 **pwd**

**Command Category:** Browse Commands

**Use with WLST:** Online or Offline

**Description**

Displays the current location in the configuration or runtime bean hierarchy.

This command is useful when you have turned off the prompt display of the path information using the `prompt` command, as described in `prompt`.

In the event of an error, the command returns a WLSTException.
Syntax

pwd()

Example

The following example displays the current location in the configuration bean hierarchy.

```
wls:/mydomain/serverConfig/Servers/myserver/Log/myserver> pwd()
'serverConfig:/Servers/myserver/Log/myserver'
```

### 3.3.1 Control Commands

Use the WLST control commands to perform domain configuration tasks, such as creating or extending a WebLogic domain, configuring server startup groups, rolling out updates to domain components, and more. Table 3-3 lists the control commands you can use to perform the following tasks:

- Connect to or disconnect from a server (connect and disconnect commands)
- Create a new WebLogic domain from a domain template, similar to the Configuration Wizard (createDomain, readTemplate, writeDomain, and closeTemplate commands)
- Update an existing WebLogic domain, offline (readDomain, addTemplate, updateDomain, and closeDomain commands)
- Write a domain template (writeTemplate command)
- Exit WLST

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>addStartupGroup</td>
<td>Add a new server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>addTemplate</td>
<td>Extend the current WebLogic domain using an application or service extension template.</td>
<td>Offline</td>
</tr>
<tr>
<td>clone</td>
<td>Clone the server object.</td>
<td>Offline</td>
</tr>
<tr>
<td>closeDomain</td>
<td>Close the current domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>closeTemplate</td>
<td>Close the current domain template.</td>
<td>Offline</td>
</tr>
<tr>
<td>connect</td>
<td>Connect WLST to a WebLogic Server instance.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>createDomain</td>
<td>Create a new WebLogic domain using the specified template.</td>
<td>Offline</td>
</tr>
<tr>
<td>deleteStartupGroup</td>
<td>Delete a server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>disconnect</td>
<td>Disconnect WLST from a WebLogic Server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>exit</td>
<td>Exit WLST from the interactive session and close the scripting shell.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>exportPartition</td>
<td>Export a domain partition into a partition archive.</td>
<td>Online</td>
</tr>
<tr>
<td>getDatabaseDefaults</td>
<td>Connect to the database to retrieve schema information.</td>
<td>Offline</td>
</tr>
</tbody>
</table>
Table 3-3  Control Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>getFEHostURL</td>
<td>Retrieve the plain, SSL or default URL for the domain Frontend Host.</td>
<td>Offline</td>
</tr>
<tr>
<td>getServerGroups</td>
<td>Retrieve a list of the server groups of which the specified server is a member.</td>
<td>Offline</td>
</tr>
<tr>
<td>getStartupGroup</td>
<td>Retrieve the server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>getTopologyProfile</td>
<td>Return the domain topology profile for a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>importPartition</td>
<td>Import a domain partition from a partition archive.</td>
<td>Online</td>
</tr>
<tr>
<td>listServerGroups</td>
<td>Retrieve a map of the config-groups.xml server groups that are user-expandable.</td>
<td>Offline</td>
</tr>
<tr>
<td>loadTemplates</td>
<td>Load all the selected templates using select template.</td>
<td>Offline</td>
</tr>
<tr>
<td>readDomain</td>
<td>Open an existing WebLogic domain for updating.</td>
<td>Offline</td>
</tr>
<tr>
<td>readDomainForUpgrade</td>
<td>Open an existing domain for reconfiguration.</td>
<td>Offline</td>
</tr>
<tr>
<td>readTemplate</td>
<td>Open an existing domain template for domain creation.</td>
<td>Offline</td>
</tr>
<tr>
<td>readTemplateForUpdate</td>
<td>Open an existing domain template for template update.</td>
<td>Offline</td>
</tr>
<tr>
<td>rolloutApplications</td>
<td>Roll out updates to specified applications on the targeted servers without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutJavaHome</td>
<td>Roll out a new Java Home to the targeted servers without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutOracleHome</td>
<td>Roll out a patched Oracle Home to the targeted server without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>rollingRestart</td>
<td>Initiate a rolling restart of the targeted servers without interrupting the service.</td>
<td>Online</td>
</tr>
<tr>
<td>rolloutUpdate</td>
<td>Roll out updates to targeted servers without interrupting service.</td>
<td>Online</td>
</tr>
<tr>
<td>selectCustomTemplate</td>
<td>Select an existing custom domain template or application template for creating a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>selectTemplate</td>
<td>Select an existing domain template or application template for creating a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>setFEHostURL</td>
<td>Set the plain, SSL and default URLs for the domain Frontend Host.</td>
<td>Offline</td>
</tr>
<tr>
<td>setServerGroups</td>
<td>Set the server groups for the specified server.</td>
<td>Offline</td>
</tr>
<tr>
<td>setSharedSecretStoreWithPassword</td>
<td>Set the shared secret store and password.</td>
<td>Offline</td>
</tr>
<tr>
<td>setStartupGroup</td>
<td>Set the server startup group.</td>
<td>Offline</td>
</tr>
<tr>
<td>setTopologyProfile</td>
<td>Set the domain topology profile.</td>
<td>Offline</td>
</tr>
<tr>
<td>showAvailableTemplates</td>
<td>Display all currently selected templates for loading.</td>
<td>Offline</td>
</tr>
<tr>
<td>showTemplates</td>
<td>Display all currently selected and loaded templates.</td>
<td>Offline</td>
</tr>
<tr>
<td>unselectCustomTemplate</td>
<td>Unselect the selected custom domain template or application template.</td>
<td>Offline</td>
</tr>
<tr>
<td>unselectTemplate</td>
<td>Unselect a selected domain template or application template.</td>
<td>Offline</td>
</tr>
</tbody>
</table>
Table 3-3  (Cont.) Control Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>updateDomain</td>
<td>Update and save the current domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>validateConfig</td>
<td>Validate a domain configuration.</td>
<td>Offline</td>
</tr>
<tr>
<td>writeDomain</td>
<td>Write the domain configuration information to the specified directory.</td>
<td>Offline</td>
</tr>
<tr>
<td>writeTemplate</td>
<td>Writes the configuration information to the specified domain template file.</td>
<td>Online and Offline</td>
</tr>
</tbody>
</table>

3.3.1.1 addStartupGroup

Command Category: Control Commands

Use with WLST: Offline

Description

Adds a new server startup group based on an existing server group. In the event of an unsupported operation, the command returns a WLSTException.

For information about startup groups, see config-groups.xml and startup-plan.xml in Domain Template Reference.

Syntax

```
addStartupGroup(server_startup_group_name, server_group_name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>server_startup_group_name</td>
<td>Name of the new server startup group.</td>
</tr>
<tr>
<td>server_group_name</td>
<td>Name of an existing server group within the domain.</td>
</tr>
</tbody>
</table>

Example

The following example creates a startup group called startup_group_1 from an existing server group called server_group_1.

```
addStartupGroup('startup_group_1', 'server_group_1')
```

3.3.1.2 addTemplate

Command Category: Control Commands

Use with WLST: Offline

Description

Extends the current WebLogic domain using an application or service extension template. Use the Template Builder to create an application or service extension template.

In the event of an error, the command returns a WLSTException.

Syntax

```
addTemplate(templateFileName)
```

**Argument** | **Definition**
--- | ---
`templateFileName` | Name of the application or service extension template.

**Example**

The following example opens a WebLogic domain and extends it using the specified extension template, `DefaultWebApp.jar`.

```
wls:/offline>
readDomain('c:/Oracle/Middleware/user_projects/domains/wlw')
wls:/offline/wlw>
addTemplate('c:/Oracle/Middleware/wlserver
/common/templates/wls/DefaultWebApp.jar')
wls:/offline/wlw>
```

**Note:**
The `addTemplate` command has been deprecated in this release and will be removed in a future release. Use the `selectTemplate` and `loadTemplates` commands instead. See Creating and Updating a WebLogic Domain in Understanding the WebLogic Scripting Tool.

### 3.3.1.3 closeDomain

**Command Category:** Control Commands

**Use with WLST:** Offline

**Description**

Closes the current domain. The domain is no longer available for editing once it is closed. In the event of an error, the command returns a WLSTException.

**Syntax**

```
closeDomain()
```

**Example**

The following example closes the current domain:

```
wls:/offline>
readDomain('c:/Oracle/Middleware/user_projects/domains/medrec')
...
wls:/offline/medrec> updateDomain()
wls:/offline/medrec> closeDomain()
wls:/offline>
```
3.3.1.4 closeTemplate

Command Category: Control Commands
Use with WLST: Offline

Description
Closes the current domain template. The domain template is no longer available once it is closed. In the event of an error, the command returns a WLSTException.

Syntax
closeTemplate()

Example
The following example opens an existing domain template, performs some operations, and then closes the current domain template.

```
wlst:/offline> readTemplate('c:/Oracle/Middleware/wlserver/common/templates/wls/wls.jar')
...
wlst:/offline/wls> closeTemplate()
wlst:/offline>
```

3.3.1.5 clone

Command Category: Control Commands
Use with WLST: Offline

Description
Clones the original server. In the event of an unsupported operation, the command returns a WLSTException.

Syntax
clone('originalServerName', 'cloneServerName','type')

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>originalServerName</td>
<td>The name of the server to clone.</td>
</tr>
<tr>
<td>cloneServerName</td>
<td>The name of the new cloned server.</td>
</tr>
<tr>
<td>type</td>
<td>The type of object to clone. Currently, the only supported type is Server.</td>
</tr>
</tbody>
</table>

Example
The following example creates a server called `server1_clone` by cloning the `server1` server.

```
wls:/offline/base_domain>clone('server1','server1_clone','Server')
```
3.3.1.6 connect

Command Category: Control Commands

Use with WLST: Online or Offline

Description

Connects WLST to a WebLogic Server instance.

It requires you to provide the credentials (user name and password) of a user who has been defined in the active WebLogic security realm. Once you are connected, a collection of security policies determines the configuration attributes that you can view or modify. (See Default Security Policies for MBeans in MBean Reference for Oracle WebLogic Server.)

You can supply user credentials by doing any of the following:

• Enter the credentials on the command line. This option is recommended only if you are using WLST in interactive mode.

• Enter the credentials on the command line, and then use the storeUserConfig command to create a user configuration file that contains your credentials in an encrypted form and a key file that WebLogic Server uses to unencrypt the credentials. On subsequent WLST sessions (or in WLST scripts), supply the name of the user configuration file and key file instead of entering the credentials on the command line. This option is recommended if you use WLST in script mode because it prevents you from storing unencrypted user credentials in your scripts.

• Use the credentials that are stored in the Administration Server’s boot.properties file. By default, when you create an Administration Server in development mode, WebLogic Server encrypts the credentials that were used to create the server and stores them in a boot.properties file. When you create an Administration Server in production mode, no boot.properties file is created. If your production domain does not contain a boot.properties file, you can create one manually; see Creating a Boot Identify File for an Administration Server in Administering Server Startup and Shutdown for Oracle WebLogic Server.

When you run the connect command, if there is a boot.properties file containing the encrypted username and password for the domain, you do not have to enter the username and password to connect to the Administration Server. You do, however, have to specify the name of the Administration Server in the connect command.

Please note:

• If you run the connect command in a script without specifying the username and password or user configuration file and key file, a WSLTEException occurs. In interactive mode, you are prompted for the username and password.

• Oracle strongly recommends that you connect WLST to the server through the SSL port or administration port. If you do not, the following warning message is displayed:

Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead.
• If you are connecting to a WebLogic Server instance through an SSL listen port on a server that is using the demonstration SSL keys and certificates, invoke WLST using the following command:

    java -Dweblogic.security.SSL.ignoreHostnameVerification=true
    -Dweblogic.security.TrustKeyStore=DemoTrust weblogic.WLST

See Main Steps for Using WLST in Interactive or Script Mode in *Understanding the WebLogic Scripting Tool*.

• If you are connecting to a WebLogic Server instance via HTTP, ensure that the **TunnelingEnabled** attribute is set to true for the WebLogic Server instance. See **TunnelingEnabled** in *MBean Reference for Oracle WebLogic Server*.

• When trying to connect to the WebLogic Server Administration Server from WLST using localhost as the host name, the following message may be displayed if the listen-address attribute of the Administration Server has been restricted to certain IP addresses:

    javax.naming.CommunicationException [Root exception is
    java.net.ConnectException : <t3://HOST:PORT> : Destination unreachable;
    nested exception is: java.net.ConnectException: Connection refused; No
    available router to destination

You can use either of the following workarounds for this issue:

  – Check that the listen-address attribute of the Administration Server has been set correctly. For example, in the domain configuration file, comment out the <listen-address> line:

    <server>
      <name>AdminServer</name>
      <ssl>
        .
        .
        .
      </ssl>
      <machine>your_machine</machine>
      <!-- listen-address><your_ip_address></listen-address -->
    </server>

  – Instead of localhost, use the hostname of the Administration Server in the WLST connect command.

After successfully connecting to a WebLogic Server instance, all the local variables are initialized.

In the event of an error, the command returns a **WLSTException**.

**Syntax**

    connect([username, password], [adminServerName], [url], [timeout], [idd])
    connect([userConfigFile, userKeyFile], [adminServerName], [url], [timeout], [idd])
    connect([url], [adminServerName], [timeout])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>username</td>
<td>Optional. Username of the operator who is connecting WLST to the server. If not specified, WLST processes the command as described above.</td>
</tr>
<tr>
<td>password</td>
<td>Optional. Password of the operator who is connecting WLST to the server. If not specified, WLST processes the command as described above.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>url</td>
<td>Optional. Listen address and listen port of the server instance, specified using the following format: [protocol://]listen-address:listen-port. If not specified, this argument defaults to t3://localhost:7001.</td>
</tr>
</tbody>
</table>
| userConfigFile | Optional. Name and location of a user configuration file which contains an encrypted username and password. Use the following syntax for this argument:  
userConfigFile='file-system-path'  
If not specified, WLST processes the command as described above.  
When you create a user configuration file, the storeUserConfig command uses a key file to encrypt the username and password. Only the key file that encrypts a user configuration file can decrypt the username and password. (See storeUserConfig.) |
| userKeyFile | Optional. Name and location of the key file that is associated with the specified user configuration file and is used to decrypt it. Use the following syntax for this argument:  
userKeyFile='file-system-path'  
If not specified, WLST processes the command as described above.  
See storeUserConfig. |
| adminServerName | Optional. Name of the Administration Server for the domain. Causes the connect command to use the credentials that are stored in the Administration Server's boot.properties file. Use the following syntax for this argument:  
adminServerName='server-name'  
This argument is valid only when you start WLST from a domain directory. If the boot.properties file for the Administration Server is located in the domain directory, then you do not need to specify this argument.  
If not specified, WLST processes the command as described above. |
| timeout | Optional. The number of milliseconds that WLST waits for online commands to complete (return).  
When you invoke a WLST online command, WLST connects to an MBean Server, invokes an MBean server method, and returns the results of the invocation. If the MBean server method does not return within the timeout period, WLST abandons its invocation attempt. Use the following syntax for this argument:  
timeout='milliseconds'  
The default value is 0, which indicates that the operation will not time out. Note, however, that a timeout of 5 minutes may occur at a different layer. |
| idd | Optional. The identity domain for the user. Use the following syntax for this argument, where dbUsers represents the name of the identity domain:  
idd=dbUsers  
This argument defaults to None. |

**Examples**

The following example connects WLST to a WebLogic Server instance. In this example, the Administration Server name defaults to AdminServer. Note that a warning is displayed if the SSL or administration port is not used to connect to the server.

```sh
wls:/offline> connect('adminusername','adminpassword','t3://localhost:7001')  
Connecting to weblogic server instance running at t3://localhost:7001 as
```
username adminusername...

Successfully connected to Admin Server 'AdminServer' that belongs to domain 'mydomain'.

Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead.

wls/mydomain/serverConfig>

The following example connects WLST to a WebLogic Server instance at the specified URL. In this example, the username and password are passed as variables. This example uses a secure protocol.

wls:/offline> username = 'adminusername'
wls:/offline> password = 'adminpassword'
wls:/offline> connect(username,password,'t3s://myhost:7001')
Connecting to weblogic server instance running at t3://myhost:7001 as username adminusername...

Successfully connected to Admin Server 'AdminServer' that belongs to domain 'mydomain'.

wls:/mydomain/serverConfig>

The following example connects WLST to a WebLogic Server instance using a user configuration and key file to provide user credentials.

wls:/offline> connect(userConfigFile='c:/myfiles/myuserconfigfile.secure', userKeyFile='c:/myfiles/myuserkeyfile.secure')
Connecting to t3://localhost:7001 with userid username ...

Successfully connected to Admin Server 'AdminServer' that belongs to domain 'mydomain'.

wls:/mydomain/serverConfig>

The following example shows the prompts that are displayed in interactive mode if you run the command without parameters:

wls:/offline> connect()
Please enter your username : username
Please enter your password : 
Please enter your server URL [t3://localhost:7001] :
Connecting to t3://localhost:7001 with userid username

3.3.1.7 createDomain

Command Category: Control Commands

Use with WLST: Offline

Description

Creates a WebLogic domain using the specified template.
**Note:**

The `createDomain` command is similar in functionality to the `unpack` command, as described in The Unpack Command in *Creating Templates and Domains Using the Pack and Unpack Commands*.

In the event of an error, the command returns a WLSTException.

**Syntax**

```
createDomain(domainTemplate, domainDir, user, password, topologyProfile)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>domainTemplate</code></td>
<td>Name and location of the domain template from which you want to create a domain.</td>
</tr>
<tr>
<td><code>domainDir</code></td>
<td>Name of the directory to which you want to write the domain configuration information. Oracle recommends that you create all domains for your environment outside of the Middleware home directory. This makes it easier for you to remove an existing installation or install a new version of WebLogic Server without having to recreate your domains and applications.</td>
</tr>
<tr>
<td><code>user</code></td>
<td>Name of the default user.</td>
</tr>
<tr>
<td><code>password</code></td>
<td>Password of the default user.</td>
</tr>
<tr>
<td><code>topologyProfile</code></td>
<td>Set the topology profile for the domain, either Compact or Expanded. See Domain Topology Profiles in Domain Template Reference.</td>
</tr>
</tbody>
</table>

**Example**

The following example creates a new WebLogic domain using the Avitek MedRec template and sets the default username and password. The domain is saved to the following directory: c:/Oracle/Middleware/wlserver/user_projects/domains/medrec.

```
wlsh/offline> createDomain('c:/Oracle/Middleware/wlserver/common/templates/wls/wls_medrec.jar','c:/Oracle/Middleware/user_projects/domains/medrec', 'adminusername', 'adminpassword')
```

### 3.3.1.8 deleteStartupGroup

**Command Category:** Control Commands  
**Use with WLST:** Offline  
**Description**

Deletes the server startup group. In the event of an unsupported operation, the command returns a WLSTException.
Syntax

deleteStartupGroup('startup_group_name')

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>startup_group_name</td>
<td>Name of the new server startup group.</td>
</tr>
</tbody>
</table>

Example

The following example deletes the server startup group, startup_group_custom.

wls:/offline/base_domain> deleteStartupGroup('startup_group_custom')

3.3.1.9 disconnect

Command Category: Control Commands

Use with WLST: Online

Description

Disconnects WLST from a WebLogic Server instance. The disconnect command does not cause WLST to exit the interactive scripting shell; it closes the current WebLogic Server instance connection and resets all the variables while keeping the interactive shell alive.

In the event of an error, the command returns a WLSTException.

You can connect to another WebLogic Server instance using the connect command, as described in connect.

Syntax

disconnect(force)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>force</td>
<td>Optional. Boolean value specifying whether WLST should disconnect without waiting for the active sessions to complete. This argument defaults to false, indicating that all active sessions must complete before disconnect.</td>
</tr>
</tbody>
</table>

Example

The following example disconnects from a running server:

wls:/mydomain/serverConfig> disconnect()
Disconnected from weblogic server: myserver
wls:/offline>

3.3.1.10 exit

Command Category: Control Commands
Use with WLST: Online or Offline

Description
Exits WLST from the user session and closes the scripting shell.

If there is an edit session in progress, WLST prompts you for confirmation. To skip the prompt, set the defaultAnswer argument to y.

By default, WLST calls System.exit(0) for the current WLST JVM when exiting WLST. If you would like the JVM to exit with a different exit code, you can specify a value using the exitCode argument.

Note:
When the WLST exit command is issued within an Ant script, it may also exit the execution of the Ant script. It is recommended that when invoking WLST within an Ant script, you fork a new JVM by specifying fork="true".

In the event of an error, the command returns a WLSTException.

Syntax
exit([defaultAnswer], [exitcode])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>defaultAnswer</td>
<td>Optional. Default response, if you would prefer not to be prompted at the command line. Valid values are y and n. This argument defaults to null, and WLST prompts you for a response.</td>
</tr>
<tr>
<td>exitcode</td>
<td>Optional. Exit code to set when exiting WLST.</td>
</tr>
</tbody>
</table>

Example
The following example disconnects from the user session and closes the scripting shell.

wls:/mydomain/serverConfig> exit()
Exiting WebLogic Scripting Tool ...
c:

The following example disconnects from the user session, closes the scripting shell, and sets the error code to 101.

wls:/mydomain/serverConfig> exit(exitcode=101)
Exiting WebLogic Scripting Tool ...
c:

3.3.1.11 exportPartition

Command Category: Control Commands

Use with WLST: Online
Description

Exports a partition into a partition archive that can be used later with the importPartition command. Copies a partition's configuration into the archive file as well as (optionally) the partition's applications and libraries. This command also creates an attributes.json file that can be used to modify the partition's configuration on import.

The command is asynchronous and returns an ImportExportPartitionTaskMBean.

Syntax

exportPartition(partitionName, expArchPath, [includeAppsNLibs], [keyFile])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionName</td>
<td>The name of the partition to export.</td>
</tr>
<tr>
<td>expArchPath</td>
<td>The full path to the directory in which to save the partition archive. The path must be reachable by the Administration Server. The archive file will be named PartitionName.zip.</td>
</tr>
<tr>
<td>includeAppsNLibs</td>
<td>Optional. Specify true to include application and library binaries in the partition archive. Specify false to not include them. The default is true.</td>
</tr>
<tr>
<td>keyFile</td>
<td>Optional. The full path to a file containing a string to use as the encryption key to encrypt attributes in the partition archive. The path must be reachable by the Administration Server. This argument defaults to using an internal key.</td>
</tr>
</tbody>
</table>

Example

The following example exports partition1 to the /var/tmp directory. Application and library binaries are not included. The file /home/foo/mykeyfile is used as the encryption key.

```
wlst:/mydomain/serverConfig> task = exportPartition("partition1", "/var/tmp/", false, "/home/foo/mykeyfile")
```

3.3.1.12 getDatabaseDefaults

Command Category: Control Commands

Use with WLST: Offline

Description

Connects LocalSvcTblDataSource to the database server to retrieve schema information and automatically bind these retrieved parameters with local schema components. Data source LocalSvcTblDataSource must be configured with the necessary connection parameters before calling getDatabaseDefaults().
Note:

This command can be used only if the domain being created or modified includes Fusion Middleware components that require the use of the Oracle Fusion Middleware Repository Creation Utility (RCU) to load database schemas. The LocalSvcTblDataSource connects to the schema corresponding to the ServiceTable component in RCU.

getDatabaseDefaults() retrieves the schema password that was set when the schema was first created using RCU. If the schema password was changed after running RCU and before domain creation, you must specify the password again after calling getDatabaseDefaults() and before calling writeDomain() in a WLST script. For example:

getDatabaseDefaults()
cd('JDBCSystemResource/LocalSvcTblDataSource/JdbcResource/
LocalSvcTblDataSource/JDBCDriverParams/NO_NAME_0')
set('PasswordEncrypted', 'new_password')
writeDomain(DOMAIN_HOME)

Syntax

getDatabaseDefaults()

Example

The following example retrieves schema information for a domain called fmwdomain.

wls:/offline/fmwdomain>cd('JDBCSystemResource/LocalSvcTblDataSource/JdbcResource/
LocalSvcTblDataSource')
wls:/offline/fmwdomain>cd('JDBCDriverParams/NO_NAME_0')
wls:/offline/fmwdomain>cd('DriverName', 'oracle.jdbc.OracleDriver')
wls:/offline/fmwdomain>set('URL', 'jdbc:oracle:thin:@localhost:1522/xe')
wls:/offline/fmwdomain>set('PasswordEncrypted', 'password')
wls:/offline/fmwdomain>cd('Properties/NO_NAME_0')
wls:/offline/fmwdomain>cd('Property/user')
wls:/offline/fmwdomain>cmo.setValue('DEV_STB')
wls:/offline/fmwdomain>getDatabaseDefaults()

3.3.1.13 getFEHostURL

Command Category: Control Commands
Use with WLST: Offline

Description

Retrieves the plain, SSL, or default URL for the domain Frontend Host from the service table.

Syntax

getFEHostURL(type)
**Argument** | **Definition**
--- | ---
**type** | Specify one of the following types. *default* returns either the plain or SSL URL, depending on which was set as the default when the Frontend Host URL was set.  
  - *plain*  
  - *ssl*  
  - *default*

**Example**

The following example returns the SSL URL for the Frontend Host in the domain `mydomain`.

```
wlstoffline> readDomain("/domains/mydomain")
wlstoffline> getFEHostURL("ssl")
wlstoffline> https://myhost.com:7070
```

### 3.3.1.14 `getServerGroups`

**Command Category:** Control Commands  
**Use with WLST:** Offline  
**Description**

Retrieves a list of the server groups in which the specified server is a member. In the event of an unsupported operation, the command returns a `WLSTException`.

**Syntax**

`getServerGroups(server_name)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>server_name</code></td>
<td>The server name for which associated server groups, if any, will be returned.</td>
</tr>
</tbody>
</table>

**Example**

The following example gets the server group for the server `my_server`.

```
wlsoffline/base_domain> getServerGroups('my_server')
'[{"SERVER-GROUP1-NAME", "SERVER-GROUP2-NAME"}]
```

### 3.3.1.15 `getStartupGroup`

**Command Category:** Control Commands  
**Use with WLST:** Offline  
**Description**

Retrieves the server startup group associated with a server. In the event of an unsupported operation, the command returns a `WLSTException`.  

---

*Oracle*
Syntax

getStartupGroups(server_name)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>server_name</td>
<td>The server name for which a server startup group, if any, will be returned.</td>
</tr>
</tbody>
</table>

Example

The following example gets the server startup group for the server my_server.

```
wls:/offline/base_domain> getStartupGroup('my_server')
'Startup_Group_1'
```

3.3.1.16 getTopologyProfile

Returns the domain topology profile for a domain.

Syntax

getTopologyProfile()

Example

The following example reads the domain mydomain and then retrieves the topology profile for the domain (either Compact or Expanded).

```
wls:/offline> readDomain('C:/domains/mydomain')
wls:/mydomain> getTopologyProfile()
'Expanded'
wls:/mydomain>
```

3.3.1.17 importPartition

Command Category: Control Commands

Use with WLST: Online

Description

Imports a partition archive (generated by the exportPartition command) into a domain. Supports an attributes.json file that can be used to modify the partition's configuration on import.

The command is asynchronous and returns an ImportExportPartitionTaskMBean.

Syntax

importPartition(archiveFileName, [partitionName], [createNew], [keyFile])
### Argument Definitions

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>archiveFileName</code></td>
<td>The full path to the partition archive to import. The path must be reachable by the Administration Server. <code>importPartition</code> will also look for a file, <code>PartitionName-attributes.json</code>, in the same directory as the partition archive. If it is found, then the values in that file will override those in the partition archive.</td>
</tr>
<tr>
<td><code>partitionName</code></td>
<td>Optional. The name to use for partition when it is created in the new domain. This defaults to the original name of the partition.</td>
</tr>
<tr>
<td><code>createNew</code></td>
<td>Optional. Controls how resource group template conflicts are handled. All resource group templates used by the partition are contained in the partition archive and are imported along with the partition into the domain. If the resource group template already exists in the domain and this argument is <code>false</code>, then the existing resource group template is used. If this argument is <code>true</code>, then a new resource group template is created using a new name. If this flag is not specified, then the import will fail if the resource group template already exists in the domain.</td>
</tr>
<tr>
<td><code>keyfile</code></td>
<td>Optional. The full path to a file containing a string to use as the encryption key to decrypt attributes in the partition archive. The path must be reachable by the Administration Server. This argument defaults to using an internal key.</td>
</tr>
</tbody>
</table>

### Example

The following example imports the `partition1` archive located in the `/var/tmp` directory. Application and library binaries are not included. The file `/home/foo/mykeyfile` is used as the encryption key.

```bash
wls:/mydomain/serverConfig> importPartition("/var/tmp/partition1.zip", keyFile="/home/foo/mykeyfile")
```

### 3.3.1.18 listServerGroups

**Command Category:** Control Commands  
**Use with WLST:** Offline

**Description**

Retrieves a map of the config-groups.xml server groups that are user-expandable. In the event of an unsupported operation, the command returns a WLSTException.

For information about server groups, see config-groups.xml and startup-plan.xml in Domain Template Reference.

**Syntax**

```bash
listServerGroups([printout])
```
### Argument Definition

**printout**
Optional. If `false` (the default) the output will be formatted for programmatic consumption with the server group names returned in a Jython dictionary type that uses the server group name as its key and the server group description as the value. If `true`, the output will be formatted in an easy-to-read table that contains columns for the server group name and that server group's corresponding description.

### Example

The following example outputs server groups for programmatic use:

```wls:/offline>
listServerGroups()
'("SERVER-GROUP1-NAME" : "Server Group 1 Description", "SERVER-GROUP2-NAME" : "Server Group 2 Description")'
wls:/offline>
```

The following example outputs server groups for programmatic use:

```wls:/offline>
print listServerGroups('true')
```

<table>
<thead>
<tr>
<th>Server Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERVER-GROUP1-NAME</td>
<td>Server Group 1 Description</td>
</tr>
<tr>
<td>SERVER-GROUP2-NAME</td>
<td>Server Group 2 Description</td>
</tr>
</tbody>
</table>

```wls:/offline>
```

### 3.3.19 readDomain

**Command Category:** Control Commands

**Use with WLST:** Offline

**Description**

Opens an existing WebLogic domain for updating.

WLST offline provides read and write access to the configuration data that is persisted in the `config` directory for the WebLogic domain, or in a domain template JAR created using Template Builder. This data is a collection of XML documents and expresses a hierarchy of management objects.

When you open a template or WebLogic domain, WLST is placed at the root of the configuration hierarchy for that domain, and the prompt is updated to reflect the current location in the configuration hierarchy. For example:

```wls:/offline/base_domain>
```

See Navigating and Interrogating MBeans in *Understanding the WebLogic Scripting Tool*.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```java
readDomain(domainDirName)
```
3.3.1.20 readDomainForUpgrade

Command Category: Control Commands
Use with WLST: Offline

Description

The `readDomainForUpgrade()` function performs three basic tasks:

- Upgrades the core WebLogic Server configuration to the new version
- Reads the resulting domain into memory similarly to the existing `readDomain` function
- Selects the required reconfiguration templates and adds them to the domain similarly to the existing `addTemplate` function.

Note that if the core WebLogic Server upgrade portion of this is successful, it cannot be undone. The addition of the reconfiguration templates must be committed via the `updateDomain` function later in the session in order to take effect.

Syntax

`readDomainForUpgrade(domain_dir), [properties]`

Example

The following example opens the domain located at C:\domains\medrec for upgrade:

```text
> wls:/offline> readDomainForUpgrade('c:\domains\medrec')
```

3.3.1.21 readTemplate

Command Category: Control Commands
Use with WLST: Offline

Description

Opens an existing domain template for domain creation and optionally specifies the config-groups topology to use (full WebLogic Server only).

When you open a domain template, WLST is placed into the configuration bean hierarchy for that domain template, and the prompt is updated to reflect the current location in the configuration hierarchy. For example:

```
wls:/offline/base_domain>
```

WebLogic Server configuration beans exist within a hierarchical structure. In the WLST file system, the hierarchies correspond to drives; types and instances are directories; attributes and operations are files. WLST traverses the hierarchical structure of configuration beans using commands such as `cd`, `ls`, and `pwd` in a similar way that you would navigate a file system in a UNIX or Windows command shell. After navigating to a configuration bean instance, you interact with the bean using WLST commands. See Navigating and Interrogating MBeans in *Understanding the WebLogic Scripting Tool*.

### Note:

Using WLST and a domain template, you can only create and access security information when you are creating a new WebLogic domain. When you are updating a WebLogic domain, you cannot access security information through WLST.

In the event of an error, the command returns a `WLSTException`.

Syntax

`readTemplate(templateFileName), [topologyprofile]`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>templateFileName</code></td>
<td>Name of the JAR file corresponding to the domain template.</td>
</tr>
<tr>
<td><code>topologyprofile</code></td>
<td>Optional. The name of the config-groups topology profile to use (Compact or Expanded). This argument can be used only in a full WebLogic Server installation and applies only if the template defines these topologies. If omitted, the Expanded topology is used. <strong>Note:</strong> This argument does not apply in standalone system component (for example, OHS) installations, in which a restricted WLST tool is provided.</td>
</tr>
</tbody>
</table>

Example

The following example opens the `medrec.jar` domain template for WebLogic domain creation.

```
wls:/offline> readTemplate('c:/Oracle/Middleware/wlserver/common/templates /wls/wls_medrec.jar')
wls:/offline/wls_medrec>
```
3.3.1.22 setFEHostURL

Command Category: Control Commands

Use with WLST: Offline

Description
Sets the plain and SSL URLs for the domain Frontend Host and specifies whether the plain or SSL URL is the default.

Syntax
setFEHostURL(plain, ssl, isDefaultPlain)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>plain</td>
<td>Sets the plain URL for the Frontend Host in the following format: <a href="http://host:port">http://host:port</a></td>
</tr>
<tr>
<td>ssl</td>
<td>Sets the SSL URL for the Frontend Host in the following format: <a href="https://host:port">https://host:port</a></td>
</tr>
<tr>
<td>isPlainDefault</td>
<td>Boolean. If set to true, the plain URL is the default for the Frontend Host. If set to false, the SSL URL is the default for the Frontend Host.</td>
</tr>
</tbody>
</table>

Example
The following example sets the plain and SSL URLs for the Frontend Host of the domain mydomain, and specifies that the default is the SSL URL.

```
  wls:/offline> readDomain("/domains/mydomain")
```

3.3.1.23 setServerGroups

Command Category: Control Commands

Use with WLST: Online and Offline
Description
Sets the user-expandable server groups to which you want the specified server to belong. After executing this function, the server belongs only to the specified server groups.

In the event of an unsupported operation, the command returns a `WLSTException`.

Syntax

```
setServerGroups(serverName, serverGroups, [timeout], [skipEdit])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>serverName</code></td>
<td>The server name that you want to associate with the specified user-configurable server groups.</td>
</tr>
<tr>
<td><code>serverGroups</code></td>
<td>A Python list of the user-configurable server groups to associate with the specified server.</td>
</tr>
<tr>
<td><code>timeout</code></td>
<td>Optional. Applies only when using <code>setServerGroups</code> in online mode. Specifies the amount of time the connection can be inactive before the connection times out. The default is 120000 milliseconds.</td>
</tr>
<tr>
<td><code>skipEdit</code></td>
<td>Optional. Applies only when using <code>setServerGroups</code> in online mode. If set to <code>true</code>, the <code>setServerGroups</code> online operation does not start and activate a new WLST <code>edit()</code> session and instead relies on an existing <code>edit()</code> session. The default is <code>false</code>.</td>
</tr>
</tbody>
</table>

Example

The following example associates the server `my_server` with user-expandable server groups `server_group_1` and `server_group_2`.

```
wls:/offline/base_domain> groups="server_group_1, server_group_2"
wls:/offline/base_domain> setServerGroups('my_server', groups)
```

### 3.3.1.24 setStartupGroup

Command Category: Control Commands

Use with WLST: Offline

Description
Sets the server startup group for a server. In the event of an unsupported operation, the command returns a `WLSTException`.

Syntax

```
setStartupGroup(server_name, server_startup_group_name)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>server_name</code></td>
<td>The name of the server for which you want to set the startup group.</td>
</tr>
<tr>
<td><code>server_startup_group_name</code></td>
<td>The name of an existing server startup group within the domain.</td>
</tr>
</tbody>
</table>
Example

The following example sets the startup group for the server `my_server` to `startup_group_1`.

```
wls:/offline/base_domain> setStartupGroup('my_server', 'startup_group_1')
```

### 3.3.1.25 setSharedSecretStoreWithPassword

**Command Category:** Control Commands

**Use with WLST:** Offline

**Description**

Sets the shared secret store and password for a shared database in a domain which includes Fusion Middleware products. In the event of an unsupported operation, the command returns a `WLSTException`.

For information about using a shared database, see Sharing a Database Instance in Securing Applications with Oracle Platform Security Services.

**Syntax**

```
setSharedSecretStoreWithPassword(sharedSecretStore, secretStorePassword)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sharedSecretStore</code></td>
<td>The name of the shared secret store.</td>
</tr>
<tr>
<td><code>secretStorePassword</code></td>
<td>The password for the shared secret store.</td>
</tr>
</tbody>
</table>

**Example**

The following example sets the password for secret store `store1` to `password` for the domain `base_domain`.

```
wls:/offline/base_domain> setSharedSecretStoreWithPassword('store1', 'password')
```

### 3.3.1.26 updateDomain

**Command Category:** Control Commands

**Use with WLST:** Offline

**Description**

Updates and saves the current WebLogic domain. The domain continues to be editable after you update and save it.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
updateDomain()
```
Example

The following example opens the medrec domain, performs some operations, and updates and saves the current domain:

```
wlst:/offline> readDomain('c:/Oracle/Middleware/user_projects/domains/medrec')
...
wlst:/offline/medrec> updateDomain()
```

### 3.3.1.27 writeDomain

**Command Category:** Control Commands  
**Use with WLST:** Offline  
**Description**

Writes the domain configuration information to the specified directory.

Once you write the WebLogic domain to file system, you can continue to update the domain template object that exists in memory, and reissue the `writeDomain` command to store the domain configuration to a new or existing file.

By default, when you write a WebLogic domain, the associated applications are written to `WL_HOME/user_projects/applications/domainname`, where `WL_HOME` specifies the WebLogic Server home directory and `domainname` specifies the name of the WebLogic domain. This directory must be empty; otherwise, WLST displays an error.

When you have finished using the domain template object in memory, close it using the `closeTemplate` command. If you want to edit the WebLogic domain that has been saved to disk, you can open it using the `readDomain` command.

#### Note:

The name of the WebLogic domain is derived from the name of the domain directory. For example, for a domain saved to `c:/Oracle/Middleware/user_projects/domains/myMedrec`, the domain name is `myMedrec`.

When updating an existing domain, you must use `updateDomain` in place of `writeDomain`.

Before writing the domain, you must define a password for the default user, if it is not already defined. For example:

```
cd('/Security/base_domain/User/adminusername')
cmo.setPassword('adminpassword')
```

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
writeDomain(domainDir)
```
### Argument and Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>domainDir</td>
<td>Name of the directory to which you want to write the domain configuration information.</td>
</tr>
</tbody>
</table>

### Example

The following example reads the medrec.jar domain templates, performs some operations, and writes the domain configuration information to the `c:/Oracle/Middleware/user_projects/domains/medrec` directory.

```plaintext
wls:/offline> readTemplate('c:/Oracle/Middleware/wlserver/common/templates/wls/wls.jar')
...

wls:/offline/base_domain> writeDomain('c:/Oracle/Middleware/user_projects/domains/base_domain')
```

### 3.3.1.28 writeTemplate

**Command Category:** Control Commands  
**Use with WLST:** Online and Offline

**Description**

Writes the domain configuration information to the specified domain template. You can use the domain configuration template to recreate the WebLogic domain.

Once you write the configuration information to the domain configuration template, you can continue to update the WebLogic domain or domain template object that exists in memory, and reissue the `writeDomain` or `writeTemplate` command to store the domain configuration to a new or existing WebLogic domain or domain template file. See `writeDomain` or `writeTemplate`.

In the event of an error, the command returns a `WLSTException`.

---

**Note:**

The `writeTemplate` command is similar in functionality to the `pack` command. See The Pack Command in *Creating Templates and Domains Using the pack and unpack Commands*.

**Syntax**

```plaintext
writeTemplate(templateName, [timeout])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>templateName</td>
<td>Name of the domain template to store the domain configuration information.</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. Applies only when using <code>writeTemplate</code> in online mode. Specifies the amount of time the connection to the remote server can be inactive before the connection times out.</td>
</tr>
</tbody>
</table>
**Example**

The following example writes the current domain configuration to the domain template named \c:/Oracle/Middleware/user_projects/templates/myTemplate.jar.

```
wlst:/offline> readDomain('c:/Oracle/Middleware/user_projects/domains/mydomain')
...
wls:/offline/base_domain> writeTemplate('c:/Oracle/Middleware/user_projects/templates/myTemplate.jar')
```

### 3.3.1.29 validateConfig

**Command Category:** Control Commands  
**Use with WLST:** Online or Offline  
**Description**

Validates a domain configuration using the supplied option. In the event of a validation error, the command returns a `WLSTException`.

**Syntax**

```
validateConfig(option)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
</table>
| option   | Specify one of the following options:  
|          | **InternalPortConflict**—Validate Administration Server and Managed Server listen port conflicts in the current domain configuration.  
|          | **ExternalPortConflict**—Validate Administration Server and Managed Server listen port conflicts against ports in use by active processes on the current machine (host).  
|          | **KeyStorePasswords**—Checks whether any selected template that contains a valid metadata does not yet have the credential store created for it.  
|          | **ClusterFrontEnd**—Validates whether the format of the configured front-end host and front-end http (or https) values. It also validates whether the front-end http (or https) value is missing when front-end host is set, or whether the front-end host value is missing when the front-end http (or https) value is set. |

**Example**

The following example validates the internal listen port configuration in the domain `base_domain`:

```
wls:/offline/base_domain> validateConfig('InternalPortConflict')
```

### 3.3.1.30 setTopologyProfile

**Command Category:** Control Commands  
**Use with WLST:** Offline
Description

Sets the domain topology profile (Compact or Expanded) to use for that domain. This should be set before selecting the domain template. If the topology profile is not set, then the default topology is used.

Syntax

setTopologyProfile(Topology Profile)

Argument | Definition
---|---
Topology Profile | The name of the config-groups topology profile to use (Compact or Expanded). If the topology profile is not set, then the Expanded topology is used.

Example

The following example sets the domain topology profile as Compact for a domain:

```
wlst:/offline> setTopologyProfile('Compact')
```

3.3.1.31 selectTemplate

Command Category: Control Commands

Use with WLST: Offline

Description

Selects an existing domain template or application template for creating a domain.

Syntax

selectTemplate(Template Name,Template Version)

Argument | Definition
---|---
Template Name | Name of the domain template as defined in the template descriptor file.
Template Version | Optional. Version of the domain template. If there are multiple templates with the same name, then the template version must be specified. Not specifying the template version will raise an error if there are multiple templates with the same name in the Middleware Home.

Example

The following example selects the specified domain template for creating a domain:

```
wlst:/offline> selectTemplate('Basic WebLogic Server Domain','12.2.1.0')
```

3.3.1.32 rolloutApplications

Command Category: Control Commands
Use with WLST: Online

Description

Rolls out updates to specified applications deployed on the targeted servers without interrupting service. The target can be a domain, a cluster, or a comma-separated list of servers.

This operation involves graceful shutdown of the servers, updating the applications, restarting the Node Manager, and starting the servers again.

Syntax

`rolloutApplications(target, applicationPropertiesFile, [options])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>target</strong></td>
<td>Name of the domain, cluster, or a comma-separated list of servers on which the rollout will take effect.</td>
</tr>
<tr>
<td><strong>applicationPropertiesFile</strong></td>
<td>The location of the text file containing the properties of each application that will be updated.</td>
</tr>
<tr>
<td><strong>options</strong></td>
<td>Optional. Comma-separated list of options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• <strong>isDryRun</strong>—Boolean value. If set to true, the operation will be evaluated but not executed. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>• <strong>autoRevertOnFailure</strong>—Boolean value. If set to true, the operation automatically reverts on failure. If set to false, the operation stops on failure and waits for the user to resume the operation. This options defaults to true.</td>
</tr>
<tr>
<td></td>
<td>• <strong>isSessionCompatible</strong>—Boolean value. Set to true if the sessions between the patched and unpatched versions of OracleHome are compatible. This affects the session handling time and graceful server shutdown time. Set to false if special consideration must be taken to preserve unpatched sessions. This could impact the time it takes for the rollout to complete. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>• <strong>migrationProperties</strong>—The full path to a JSON file that defines singleton service migrations to be performed during the rollout. See Preparing to Migrate Singleton Services in Administering Zero Downtime Patching Workflows.</td>
</tr>
<tr>
<td></td>
<td>• <strong>shutdownTimeout</strong>—Time (in seconds) WLST waits for a server to gracefully shutdown before shutting it down forcefully. If the patched sessions are not compatible with the unpatched sessions, then forceful shutdown of the servers on the last node may result in loss of session data. A value of less than 1 will be ignored.</td>
</tr>
<tr>
<td></td>
<td>• <strong>extension</strong>—The full path to the location of the extension jar file, optionally followed by a comma-separated list of script parameters specified as name-value pairs. If you specify the script parameters using this option, then these parameter values will override the values specified in the JSON file.</td>
</tr>
<tr>
<td></td>
<td>• <strong>extensionProperties</strong>—The full path to the extensionProperties.json file that is used to specify one or more extension jars.</td>
</tr>
</tbody>
</table>
Example

The following example shows how to use the `rolloutApplications` command to roll out the applications defined in the JSON-formatted application properties file `/u01/scratch/app_update.json` to all servers in Cluster1.

```
wls:/myDomain/serverConfig/> progress=rolloutApplications('Cluster1', '/u01/scratch/app_update.json')
```

3.3.1.33 rolloutJavaHome

Command Category: Control Commands

Use with WLST: Online

Description

Updates the targeted servers to use a new JavaHome without interrupting the service.

This operation results in graceful shutdown of the servers, the location of Java Home being updated, the Node Manager being restarted, and the servers being restarted without interrupting the service for the user.

Syntax

```
rolloutJavaHome(target, javaHomeDirectory, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>target</td>
<td>Name of the domain, cluster, or a comma-separated list of servers on which the rollout will take effect.</td>
</tr>
<tr>
<td>javaHomeDirectory</td>
<td>The location of the new Java Home to use. This must refer to a valid Java Home path installed on each machine.</td>
</tr>
</tbody>
</table>
### Argument Definition

#### options

Optional. A comma-separated list of options, specified as name-value pairs. Valid options include:

- **isDryRun**—Boolean value. If set to `true`, the operation is evaluated but not executed. This option defaults to `false`.
- **autoRevertOnFailure**—Boolean value. If set to `true`, the operation automatically reverts on failure. If set to `false`, the operation stops on failure and waits for the user to resume the operation. This option defaults to `true`.
- **isSessionCompatible**—Boolean value. Set to `true` if the sessions between the patched and unpatched versions of Oracle Home are compatible. This affects the session handling time and graceful server shutdown time. Set to `false` if special consideration must be taken to preserve unpatched sessions. This could impact the time it takes for the rollout to complete. This option defaults to `false`.
- **migrationProperties**—The full path to a JSON file that defines singleton service migrations to be performed during the rollout. See Preparing to Migrate Singleton Services in *Administering Zero Downtime Patching Workflows*.
- **shutdownTimeout**—Time (in seconds) WLST waits for a server to gracefully shutdown before shutting it down forcefully. If the patched sessions are not compatible with the unpatched sessions, then forceful shutdown of the servers on the last node may result in loss of session data. A value of less than 1 is ignored.
- **extension**—The full path to the location of the extension jar file, optionally followed by a comma-separated list of script parameters specified as name-value pairs. If you specify the script parameters using this option, then these parameter values will override the values specified in the JSON file.
- **extensionProperties**—The full path to the `extensionProperties.json` file that is used to specify one or more extension jars.

### Example

The following example shows how to use the `rolloutJavaHome` command to roll out a new Java Home to the cluster `Cluster1`. The new Java Home location is `/u01/jdk1.8.0_50`.

```
  wls:/myDomain/serverConfig/> progress=rolloutJavaHome('Cluster1', '/u01/jdk1.8.0_50')
```

### 3.3.1.34 rolloutOracleHome

**Command Category:** Control Commands

**Use with WLST:** Online

**Description**

Rolls out a patched Oracle Home to the targeted servers or reverts your targeted servers to use the previous unpatched Oracle Home.

This operation results in graceful shutdown of the servers, the Node Manager being restarted, and the servers being restarted without interrupting the service for the user.
Syntax

`rolloutOracleHome(target, rolloutOracleHome, backupOracleHome, isRollout, [options])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>target</code></td>
<td>Name of the domain, cluster, or a comma-separated list of servers on which</td>
</tr>
<tr>
<td></td>
<td>the rollout will take effect.</td>
</tr>
<tr>
<td>`rolloutOracleHo</td>
<td></td>
</tr>
<tr>
<td>me`</td>
<td>The location of the archive or local directory containing the version of</td>
</tr>
<tr>
<td></td>
<td>Oracle Home to roll out, that will replace the existing Oracle Home.</td>
</tr>
<tr>
<td>`backupOracleHo</td>
<td>me`</td>
</tr>
<tr>
<td></td>
<td>moved.</td>
</tr>
<tr>
<td><code>isRollout</code></td>
<td>Boolean value. Allows the user to specify that the change being rolled out</td>
</tr>
<tr>
<td></td>
<td>to a domain is to a previous patch release of Oracle Home. This information</td>
</tr>
<tr>
<td></td>
<td>is important in determining whether the Administration Server should be</td>
</tr>
<tr>
<td></td>
<td>updated first or last. Set to <code>true</code> if the Oracle Home being rolled out has</td>
</tr>
<tr>
<td></td>
<td>an older patch version than the current Oracle Home.</td>
</tr>
<tr>
<td><code>options</code></td>
<td>Optional. Comma-separated list of options, specified as name-value pairs.</td>
</tr>
<tr>
<td></td>
<td>Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• <code>isDryRun</code>—Boolean value. If set to <code>true</code>, the operation is evaluated</td>
</tr>
<tr>
<td></td>
<td>but not executed. This option defaults to <code>false</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>autoRevertOnFailure</code>—Boolean value. If set to <code>true</code>, the operation</td>
</tr>
<tr>
<td></td>
<td>automatically reverts on failure. If set to <code>false</code>, the operation stops</td>
</tr>
<tr>
<td></td>
<td>on failure and waits for the user to resume the operation. This options</td>
</tr>
<tr>
<td></td>
<td>defaults to <code>true</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>isSessionCompatible</code>—Boolean value. Set to <code>true</code> if the sessions</td>
</tr>
<tr>
<td></td>
<td>between the patched and unpatched versions of Oracle Home are compatible.</td>
</tr>
<tr>
<td></td>
<td>This affects the session handling time and graceful server shutdown time.</td>
</tr>
<tr>
<td></td>
<td>Set to <code>false</code> if special consideration must be taken to preserve unpatched</td>
</tr>
<tr>
<td></td>
<td>sessions. This could impact the time it takes for the rollout to complete.</td>
</tr>
<tr>
<td></td>
<td>This option defaults to <code>false</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>migrationProperties</code>—The full path to a JSON file that defines</td>
</tr>
<tr>
<td></td>
<td>singleton service migrations to be performed during the rollout. See</td>
</tr>
<tr>
<td></td>
<td><code>Preparing to Migrate Singleton Services</code> in <code>Administering Zero Downtime</code></td>
</tr>
<tr>
<td></td>
<td><code>Patching Workflows</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>shutdownTimeout</code>—Time (in seconds) WLST waits for a server to</td>
</tr>
<tr>
<td></td>
<td>gracefully shutdown before shutting it down forcefully. If the patched</td>
</tr>
<tr>
<td></td>
<td>sessions are not compatible with the unpatched sessions, then forceful</td>
</tr>
<tr>
<td></td>
<td>shutdown of the servers on the last node may result in loss of session</td>
</tr>
<tr>
<td></td>
<td>data. A value of less than 1 is ignored.</td>
</tr>
<tr>
<td></td>
<td>• <code>extension</code>—The full path to the location of the extension jar file,</td>
</tr>
<tr>
<td></td>
<td>optionally followed by a comma-separated list of script parameters</td>
</tr>
<tr>
<td></td>
<td>specified as name-value pairs. If you specify the script parameters</td>
</tr>
<tr>
<td></td>
<td>using this option, then these parameter values will override the values</td>
</tr>
<tr>
<td></td>
<td>specified in the JSON file.</td>
</tr>
<tr>
<td></td>
<td>• <code>extensionProperties</code>—The full path to the <code>extensionProperties.json</code></td>
</tr>
<tr>
<td></td>
<td>file that is used to specify one or more extension jars.</td>
</tr>
</tbody>
</table>
Example

The following example shows how to use the `rolloutOracleHome` command to roll out a new Oracle Home to the domain `myDomain`. The JAR file for the patched Oracle Home is located at `/net/wls/wls_patched.jar`. The original Oracle Home will be moved to `/u01/Oracle_Home_backup`. The process will not automatically revert if it fails.

```
wlst:/myDomain/serverConfig/> progress=rolloutOracleHome('myDomain', '/net/wls/wls_patched.jar', '/u01/Oracle_Home_backup', autoRevertOnFailure=FALSE)
```

3.3.1.35 rollingRestart

Command Category: Control Commands

Use with WLST: Online

**Description**

Initiates a rolling restart of all servers in a domain or all servers in a specific cluster or clusters without interrupting the service. This command provides the ability to sequentially restart servers.

This operation involves the graceful shutdown of the servers, and the servers being restarted without interrupting the service for the user.

**Syntax**

```
rollingRestart(target, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>target</td>
<td>Name of the domain, cluster, or a comma-separated list of servers on which the rollout takes effect.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td>• isDryRun</td>
<td>Boolean value. If set to true, the operation is evaluated but not executed. This option defaults to false.</td>
</tr>
<tr>
<td>• autoRevertOnFailure</td>
<td>Boolean value. If set to true, the operation automatically reverts on failure. If set to false, the operation stops on failure and waits for the user to resume the operation. This option defaults to true.</td>
</tr>
<tr>
<td>• isSessionCompatible</td>
<td>Boolean value. Set to true if the sessions between the patched and unpatched versions of Oracle Home are compatible. This affects the session handling time and graceful server shutdown time. Set to false if special consideration must be taken to preserve unpatched sessions. This could impact the time it takes for the rollout to complete. This option defaults to false.</td>
</tr>
<tr>
<td>• migrationProperties</td>
<td>The full path to a JSON file that defines singleton service migrations to be performed during the rollout. See Preparing to Migrate Singleton Services in Administering Zero Downtime Patching Workflows.</td>
</tr>
<tr>
<td>• shutdownTimeout</td>
<td>Time (in seconds) WLST waits for a server to gracefully shutdown before shutting it down forcefully. If the patched sessions are not compatible with the unpatched sessions, then forceful shutdown of the servers on the last node may result in loss of session data.</td>
</tr>
<tr>
<td></td>
<td>A value of less than 1 is ignored.</td>
</tr>
<tr>
<td>• extension</td>
<td>The full path to the location of the extension jar file, optionally followed by a comma-separated list of script parameters specified as name-value pairs. If you specify the script parameters using this option, then these parameter values will override the values specified in the JSON file.</td>
</tr>
<tr>
<td>• extensionProperties</td>
<td>The full path to the extensionProperties.json file that is used to specify one or more extension jars.</td>
</tr>
</tbody>
</table>

**Example**

The following example uses the `rollingRestart` command to restart all servers in the domain `myDomain`, one at a time. It then, uses the returned progress object to show the progress and state of the operation.

```bash
wls:/myDomain/serverConfig/> progress = rollingRestart('myDomain')
wls:/myDomain/serverConfig/> progress.getProgressString()
wls:/myDomain/serverConfig/> progress.getStatus()  'SUCCESS'
```

### 3.3.1.36 rolloutUpdate

**Command Category:** Control Commands

**Use with WLST:** Online

**Description**

Updates the targeted servers to use Oracle Home, Java Home, or applications deployed on the server without interrupting the service or causing loss of session. This command allows for any combination of those updates, depending on the optional
parameters that are specified. If the user doesn't specify the Oracle Home, Java Home, or application properties parameters, then rollingRestart is executed.

Syntax

rolloutUpdate{target, [rolloutOracleHome, backupOracleHome, isRollout], [javaHomeDirectory], [applicationPropertiesFile], [options]}

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>target</td>
<td>Name of the domain, cluster, or a comma-separated list of servers on which the rollout takes effect.</td>
</tr>
<tr>
<td>rolloutOracleHome</td>
<td>The location of the archive or local directory containing the version of Oracle Home to roll out, and that replaces the existing Oracle Home.</td>
</tr>
<tr>
<td>backupOracleHome</td>
<td>The path of the local directory to which the existing Oracle Home is moved.</td>
</tr>
<tr>
<td>javaHomeDirectory</td>
<td>This argument must be specified if you want to update Java Home.</td>
</tr>
<tr>
<td>applicationPropertiesFile</td>
<td>This argument must be specified if you want to update applications deployed on the server.</td>
</tr>
<tr>
<td>isRollout</td>
<td>This argument must be specified if you want to update Oracle Home.</td>
</tr>
</tbody>
</table>
## Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>options</strong></td>
<td>Optional. Comma-separated list of options, specified as name-value pairs.</td>
</tr>
<tr>
<td></td>
<td>Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• <strong>isDryRun</strong>—Boolean value. If set to <strong>true</strong>, the operation is evaluated</td>
</tr>
<tr>
<td></td>
<td>but not executed. This option defaults to <strong>false</strong>.</td>
</tr>
<tr>
<td></td>
<td>• <strong>autoRevertOnFailure</strong>—Boolean value. If set to <strong>true</strong>, the operation</td>
</tr>
<tr>
<td></td>
<td>automatically reverts on failure. If set to <strong>false</strong>, the operation</td>
</tr>
<tr>
<td></td>
<td>stops on failure and waits for the user to resume the operation. This</td>
</tr>
<tr>
<td></td>
<td>option defaults to <strong>true</strong>.</td>
</tr>
<tr>
<td></td>
<td>• <strong>isSessionCompatible</strong>—Boolean value. Set to <strong>true</strong> if the sessions</td>
</tr>
<tr>
<td></td>
<td>between the patched and unpatched versions of Oracle Home are</td>
</tr>
<tr>
<td></td>
<td>compatible. This affects the session handling time and graceful server</td>
</tr>
<tr>
<td></td>
<td>shutdown time. Set to <strong>false</strong> if special consideration must be taken</td>
</tr>
<tr>
<td></td>
<td>to preserve unpatched sessions. This could impact the time it takes for</td>
</tr>
<tr>
<td></td>
<td>the rollout to complete. This option defaults to <strong>false</strong>.</td>
</tr>
<tr>
<td></td>
<td>• <strong>migrationProperties</strong>—The full path to a JSON file that defines</td>
</tr>
<tr>
<td></td>
<td>singleton service migrations to be performed during the rollout. See</td>
</tr>
<tr>
<td></td>
<td>Preparing to Migrate Singleton Services in Administering Zero Downtime</td>
</tr>
<tr>
<td></td>
<td>Patching Workflows.</td>
</tr>
<tr>
<td></td>
<td>• <strong>shutdownTimeout</strong>—Time (in seconds) WLST waits for a server to</td>
</tr>
<tr>
<td></td>
<td>gracefully shutdown before shutting it down forcefully. If the patched</td>
</tr>
<tr>
<td></td>
<td>sessions are not compatible with the unpatched sessions, then forceful</td>
</tr>
<tr>
<td></td>
<td>shutdown of the servers on the last node may result in loss of session</td>
</tr>
<tr>
<td></td>
<td>data. A value of less than 1 is ignored.</td>
</tr>
<tr>
<td></td>
<td>• <strong>extension</strong>—The full path to the location of the extension jar file,</td>
</tr>
<tr>
<td></td>
<td>optionally followed by a comma-separated list of script parameters</td>
</tr>
<tr>
<td></td>
<td>specified as name-value pairs. If you specify the script parameters</td>
</tr>
<tr>
<td></td>
<td>using this option, then these parameter values will override the values</td>
</tr>
<tr>
<td></td>
<td>specified in the JSON file.</td>
</tr>
<tr>
<td></td>
<td>• <strong>extensionProperties</strong>—The full path to the extensionProperties.json file</td>
</tr>
<tr>
<td></td>
<td>that is used to specify one or more extension jars.</td>
</tr>
</tbody>
</table>

### Example

The following example uses the `rolloutUpdate` command to roll out a new Oracle Home and a new Java Home to the Administration Server. The JAR file for the patched Oracle Home is located at `/net/wls/wls_patched.jar`. The original Oracle Home will be moved to `/u01/Oracle_Home_backup`. The new Java Home location is `/u01/jdk1.8.0_50`.

```wls
wls:/myDomain/serverConfig/> progress=rolloutUpdate('AdminServer', '/net/wls/wls_patched.jar', '/u01/Oracle_Home_backup', '/u01/jdk1.8.0_50')
```

### 3.3.1.37 selectCustomTemplate

**Command Category:** Control Commands

**Use with WLST:** Offline

**Description**

Select an existing custom domain template or application template for creating a domain.
Syntax

selectCustomTemplate(Template Path)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Template Path</td>
<td>Name of the JAR file corresponding to the domain template.</td>
</tr>
</tbody>
</table>

Example

The following example selects the `wls.jar` custom domain template for creating a domain:

```
wlis:/offline> selectCustomTemplate('C:/Oracle/Middleware/WLS/wlserver/common/templates/wls/wls.jar')
```

3.3.1.38 unselectTemplate

Command Category: Control Commands

Use with WLST: Offline

Description

Deselect the selected domain template or application template during the process of domain creation.

Syntax

unselectTemplate(Template Name, Template Version)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Template Name</td>
<td>Name of the domain template as defined in the template descriptor file.</td>
</tr>
<tr>
<td>Template Version</td>
<td>Optional. Version of the domain template to be deselected. If there are multiple templates with the same name, then the template version must be specified.</td>
</tr>
</tbody>
</table>

Example

The following example deselects the specified domain template during the process of domain creation:

```
wls:/offline> unselectTemplate('Basic WebLogic Server Domain','12.2.1.0')
```

3.3.1.39 unselectCustomTemplate

Command Category: Control Commands

Use with WLST: Offline
**Description**

Deselect the selected custom domain template or application template during the process of domain creation.

**Syntax**

`unselectCustomTemplate(Template Path)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Template Path</td>
<td>Name of the JAR file corresponding to the domain template.</td>
</tr>
</tbody>
</table>

**Example**

The following example deselects the `wls.jar` custom domain template during the process of domain creation:

```
wls:/offline> unselectCustomTemplate('C:/Oracle/Middleware/WLS/wls/wlserver/common/templates/wls/wls.jar')
```

### 3.3.1.40 loadTemplates

**Command Category:** Control Commands  
**Use with WLST:** Offline

**Description**

Loads all the selected templates using the `selectTemplate` command.

**Syntax**

`loadTemplates()`

**Example**

The following example loads the selected template.

```
wls:/offline> loadTemplates()
```

### 3.3.1.41 readTemplateForUpdate

**Command Category:** Control Commands  
**Use with WLST:** Offline

**Description**

Opens an existing domain template for template update. If you are updating the domain template, you must use `readTemplateForUpdate` instead of `readTemplate`.

When you open a domain template, you are placed into the configuration bean hierarchy for that domain template, and the prompt is updated to reflect the current location in the configuration hierarchy. For example:
WebLogic Server configuration beans exist within hierarchical structures. In the WLST file system, configuration bean hierarchies correspond to drives; types and instances are directories; attributes and operations are files. WLST traverses the hierarchical structure of configuration beans using commands such as cd, ls, and pwd in a similar way that you would navigate a file system in a UNIX or Windows command shell. After navigating to a configuration bean instance, you interact with the bean using WLST commands. See Navigating and Interrogating MBeans in *Understanding the WebLogic Scripting Tool*.

**Note:**

Using WLST and a domain template, you can only create and access security information when you are creating a new domain. When you are updating a domain, you cannot access security information through WLST.

In the event of an error, the command returns a WLSTException.

**Syntax**

`readTemplateForUpdate(templateFileName)`

**Argument**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>templateFileName</td>
<td>Name of the JAR file corresponding to the domain template.</td>
</tr>
</tbody>
</table>

**Example**

The following example opens the `wls.jar` domain template for template update:

```
wlsl offline> readTemplateForUpdate('C:/Oracle/Middleware/WLS/wlserver/common/templates/wls/wls.jar')
wls:offline/base_domain>
```

### 3.3.1.42 showAvailableTemplates

**Command Category:** Control Commands

**Use with WLST:** Offline

**Description**

Displays all currently available templates for loading.

**Syntax**

`showAvailableTemplates('showHidden', 'verbose', 'includeApplied')`
### 3.3.1.43 showTemplates

**Command Category:** Control Commands  
*Use with WLST: Offline*

**Description**  
Displays all currently selected and loaded templates.

**Syntax**  
`showTemplates()`

**Example**  
The following example displays all currently selected and loaded templates:  
`wls:/offline> showTemplates()`

---

### 3.4.1 Customization Commands

Use the WLST customization commands to add the command group help and command help that is listed by the WLST `help()` and `help('commandGroup')` commands. Table 3-4 lists and summarizes these commands. See Adding Integrated Help for Custom Commands in *Understanding the WebLogic Scripting Tool*.

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>addHelpCommandGroup</code></td>
<td>Adds a new help command group to those shown by the WLST <code>help()</code> command.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td><code>addHelpCommand</code></td>
<td>Adds new command help for a command to an existing command group. Once added to the group, the command (along with a brief description) is displayed in the command list for the group when you enter the <code>help('commandGroup')</code> command.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
3.4.1.1 addHelpCommandGroup

Command Category: Customization Commands

Use with WLST: Online or Offline

Description

Adds a new command help group to those shown by the WLST help() command, and specifies the resource bundle in which the help information is defined for the group.

Syntax

addHelpCommandGroup(commandGroup, resourceBundleName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>commandGroup</td>
<td>Use a unique name for the command group. Do not use a command group name that is already shown by the WLST help() command.</td>
</tr>
<tr>
<td>resourceBundleName</td>
<td>Represents either a class name or property resource file name. The resource bundle contains help text for entries for the command group using a standard pattern. The resource bundle name will be passed to ResourceBundle.getBundle(...). Multiple command groups can use the same resource bundle.</td>
</tr>
<tr>
<td></td>
<td>The resource bundle must be present in the classpath.</td>
</tr>
<tr>
<td></td>
<td>See Adding Integrated Help for Custom Commands in Understanding the WebLogic Scripting Tool for information on how to define the help text for each command group and command.</td>
</tr>
<tr>
<td></td>
<td>For more information on resourceBundles and localization, refer to <a href="http://docs.oracle.com/javase/8/docs/api/java/util/ResourceBundle.html">http://docs.oracle.com/javase/8/docs/api/java/util/ResourceBundle.html</a>.</td>
</tr>
</tbody>
</table>

Examples

The following example adds the boot command group to the list of groups shown by the help() command, and specifies that the help text is located in the property resource file 'myhelp':

wls:/offline> addHelpCommandGroup('boot','myhelp')

The following example adds the boot command group to the list of groups shown by the help() command, and specifies that the help text is located in the class foo.bar.MyResourceBundleClass:

wls:/offline> addHelpCommandGroup('boot','foo.bar.MyResourceBundleClass')

3.4.1.2 addHelpCommand

Command Category: Customization Commands

Use with WLST: Online or Offline

Description

Adds new command help for a command to an existing command group. Once added to the group, the command (along with a brief description) is displayed in the
command list for the group when you enter the help\('commandGroup'\) command. You can also specify whether or not the command is listed by the help\('online'\) and help\('offline'\) commands.

**Syntax**

```
addHelpCommand(commandName,commandGroup,[offline=false, online=false])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>commandName</td>
<td>The name of the command as defined in the command group specified by commandGroup.</td>
</tr>
<tr>
<td>commandGroup</td>
<td>The commandGroup to which the command belongs.</td>
</tr>
<tr>
<td>online</td>
<td>Optional. Boolean value that determines whether or not the command shows up in the help('online') output. The default value is 'false'.</td>
</tr>
<tr>
<td>offline</td>
<td>Optional. Boolean value that determines whether or not the command shows up in the help('offline') output. The default value is 'false'.</td>
</tr>
</tbody>
</table>

**Example**

The following example shows how to add the online command bootDB to the listing output by the help\('boot'\) and help\('online'\) commands:

```
wls:/offline> addHelpCommand('bootDB', 'boot', online='true', offline='false')
```

### 3.5.1 Deployment Commands

Use the WLST deployment commands to perform tasks such as deploying and undeploying applications, updating a deployment plan, interrogating the WebLogic Deployment Manager object, starting and stopping applications, and more. **Table 3-5** lists and summarizes these commands.

See Understanding WebLogic Server Deployment in *Deploying Applications to Oracle WebLogic Server*.

**Table 3-5  Deployment Commands for WLST Configuration**

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>deploy</td>
<td>Deploy an application to a WebLogic Server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>distributeApplication</td>
<td>Copy the deployment bundle to the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>getWLDM</td>
<td>Return the WebLogic DeploymentManager Object.</td>
<td>Online</td>
</tr>
<tr>
<td>listApplications</td>
<td>List all applications that are currently deployed in the WebLogic domain.</td>
<td>Online</td>
</tr>
<tr>
<td>loadApplication</td>
<td>Load an application and deployment plan into memory.</td>
<td>Online and Offline</td>
</tr>
<tr>
<td>redeploy</td>
<td>Redeploy a previously deployed application.</td>
<td>Online</td>
</tr>
</tbody>
</table>
### Table 3-5  (Cont.) Deployment Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>startApplication</code></td>
<td>Start an application, making it available to users.</td>
<td>Online</td>
</tr>
<tr>
<td><code>stopApplication</code></td>
<td>Stop an application, making it unavailable to users.</td>
<td>Online</td>
</tr>
<tr>
<td><code>undeploy</code></td>
<td>Undeploy an application from the specified servers.</td>
<td>Online</td>
</tr>
<tr>
<td><code>updateApplication</code></td>
<td>Update an application configuration using a new deployment plan.</td>
<td>Online</td>
</tr>
<tr>
<td><code>appendToExtensionLoader</code></td>
<td>Distributes code source jar to targets and uses it to extend the WebLogic Extension Loader.</td>
<td>Online</td>
</tr>
</tbody>
</table>

### 3.5.1.1 deploy

**Command Category:** Deployment Commands  
**Use with WLST:** Online

**Description**

Deploys an application to a WebLogic Server instance.

The `deploy` command returns a `WLSTProgress` object that you can access to check the status of the command. See WLSTProgress Object in *Understanding the WebLogic Scripting Tool*. In the event of an error, the command returns a `WLSTException`.

**Note:**

If there is an edit session in progress, the `deploy` command does not block user interaction.

**Syntax**

```
deploy(appName, path, [targets], [stageMode], [planPath], [resourceGroup], [resourceGroupTemplate], [partition], [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>appName</code></td>
<td>Name of the application or standalone Java EE module to be deployed.</td>
</tr>
<tr>
<td><code>path</code></td>
<td>Name of the application directory, archive file, or root of the exploded archive directory to be deployed.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>targets</td>
<td>Optional. Comma-separated list of the targets. Each target may be qualified with a Java EE module name (for example, module1@server1) enabling you to deploy different modules of the application archive on different servers. This argument defaults to the server to which WLST is currently connected.</td>
</tr>
<tr>
<td>stageMode</td>
<td>Optional. Staging mode for the application you are deploying. Valid values are stage, nostage, and external_stage. See Controlling Deployment File Copying with Staging Modes in Deploying Applications to Oracle WebLogic Server. If you do not specify a stage mode, the default stage mode is used. On the Administration Server, the default stage mode is nostage and on Managed Servers, it is stage.</td>
</tr>
<tr>
<td>planPath</td>
<td>Optional. Name of the deployment plan file. The filename can be absolute or relative to the application directory. This argument defaults to the plan/plan.xml file in the application directory, if one exists.</td>
</tr>
<tr>
<td>resourceGroup</td>
<td>Optional. Name of the resource group to which this deployment is scoped. Specify a resource group when deploying to a partition resource group or a domain resource group. The specified resource group must already exist before executing the deploy command.</td>
</tr>
<tr>
<td>resourceGroupTemplate</td>
<td>Optional. Name of the resource group template to which this deployment is scoped. The specified resource group template must already exist before executing the deploy command.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. Name of the partition to which this deployment is scoped. The partition name will be derived from the current invocation context if this argument is not specified. The specified partition must already exist before executing the deploy command.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of deployment options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• adminMode—Boolean value specifying whether to start the Web application with restricted access. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>• altDD—Location of the alternate application deployment descriptor on the Administration Server.</td>
</tr>
<tr>
<td></td>
<td>• altWlsDD—Location of the alternate WebLogic application deployment descriptor on the Administration Server.</td>
</tr>
<tr>
<td></td>
<td>• archiveVersion—Archive version number.</td>
</tr>
<tr>
<td></td>
<td>• block—Boolean value specifying whether WLST should block user interaction until the command completes. This option defaults to true. If set to false, WLST returns control to the user after issuing the command; you can query the WLSTProgress object to determine the status of the command. If you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool, block is always set to true.</td>
</tr>
<tr>
<td></td>
<td>• clusterDeploymentTimeout—Time, in milliseconds, granted for a cluster deployment task on this application.</td>
</tr>
<tr>
<td></td>
<td>• createPlan—Boolean value indicating that user would like to create a default plan. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>• defaultSubmoduleTargets—Boolean value indicating that targeting for qualifying JMS submodules should be derived by the system, see Using Sub-Module Targeting with JMS Application Modules in Deploying Applications to Oracle WebLogic Server. Default value is true.</td>
</tr>
<tr>
<td></td>
<td>• deploymentPrincipalName—String value specifying the principal for deploying the file or archive during server starts (static deployment; it does not affect the current deployment task). Make sure the user exists. This option adds &lt;deployment-principal-name&gt; to the &lt;app-deployment&gt; element in the config.xml file.</td>
</tr>
<tr>
<td></td>
<td>• deploymentOrder—Integer. Specify the deployment order of the application. The application with the lowest deployment order value is deployed first.</td>
</tr>
<tr>
<td></td>
<td>• forceUndeployTimeout—Time (in seconds) to wait for in-flight work to complete before undeploying the application.</td>
</tr>
<tr>
<td></td>
<td>• gracefulIgnoreSessions—Boolean value specifying whether the graceful production to admin mode operation should ignore pending HTTP sessions. This option defaults to false and only applies if gracefulProductionToAdmin is set to true.</td>
</tr>
<tr>
<td></td>
<td>• gracefulProductionToAdmin—Boolean value specifying whether the production to Admin mode operation should be graceful. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>• libImplVersion—Implementation version of the library, if it is not present in the manifest.</td>
</tr>
<tr>
<td></td>
<td>• libraryModule—Boolean value specifying whether the module is a library module. This option defaults to false.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>options</td>
<td>* libSpecVersion—Specification version of the library, if it is not present in the manifest.</td>
</tr>
<tr>
<td></td>
<td>* planStageMode—Staging mode for the deployment plan. Valid values are stage, nostage, or external_stage.</td>
</tr>
<tr>
<td></td>
<td>* planVersion—Plan version number.</td>
</tr>
<tr>
<td></td>
<td>* remote—Boolean value specifying whether the operation will be remote from the file system that contains the source. Use this option when you are on a different machine from the Administration Server and the deployment files are already at the specified location where the Administration Server is located. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>* retireGracefully—Retirement policy to gracefully retire an application only after it has completed all in-flight work. This policy is only meaningful for stop and redeploy operations and is mutually exclusive to the retire timeout policy.</td>
</tr>
<tr>
<td></td>
<td>* retireTimeout—Time (in seconds) WLST waits before retiring an application that has been replaced with a newer version. This option default to -1, which specifies graceful timeout.</td>
</tr>
<tr>
<td></td>
<td>*.rmiGracePeriod—Time (in seconds) WLST waits for RMI requests before retiring an application that has been replaced with a newer version. RMI requests arriving within a grace period of prior request scheduled within the grace period will be accepted, and otherwise rejected. This option default to -1, which specifies no grace period.</td>
</tr>
<tr>
<td></td>
<td>* securityModel—Security model. Valid values include: DDOnly, CustomRoles, CustomRolesAndPolicies, and Advanced.</td>
</tr>
<tr>
<td></td>
<td>* securityValidationEnabled—Boolean value specifying whether security validation is enabled.</td>
</tr>
<tr>
<td></td>
<td>* subModuleTargets—Submodule level targets for JMS modules. For example, <a href="mailto:submod@mod-jms.xml">submod@mod-jms.xml</a>@target</td>
</tr>
<tr>
<td></td>
<td>* timeout—Time (in milliseconds) that WLST waits for the deployment process to complete before canceling the operation. A value of 0 indicates that the operation will not time out. This argument defaults to 300,000 ms (or 5 minutes).</td>
</tr>
<tr>
<td></td>
<td>* upload—Boolean value specifying whether the application files are uploaded to the WebLogic Server Administration Server’s upload directory prior to deployment. Use this option when the Administration Server cannot access the application files through the file system. This option defaults to false.</td>
</tr>
<tr>
<td></td>
<td>* versionIdentifier—Version identifier.</td>
</tr>
</tbody>
</table>

Examples

The following example deploys the businessApp application located at c:/myapps/business, A default deployment plan is created.

The deploy command returns a WLSTProgress object that you can access to check the status of the command. The WLSTProgress object is captured in a user-defined variable, in this case, progress.

```bash
wls:/mydomain/serverConfig/Servers> progress= deploy(appName='businessApp', path='c:/myapps/business', createplan='true')
```

The previous example stores the WLSTProgress object returned in a user-defined variable, in this case, progress. You can then use the progress variable to print the status of the deploy command. For example:
Current Status of your Deployment:
Deployment command type: deploy
Deployment State : completed
Deployment Message : null

See WLSTProgress Object in Understanding the WebLogic Scripting Tool.

The following example deploys the demoApp application in the archive file located at c:/myapps/demos/app/demoApp.ear, targeting the application modules to myserver, and using the deployment plan file located in c:/myapps/demos/app/plan/plan.xml. WLST waits 120,000 ms for the process to complete.

```
wls:/mydomain/serverConfig/Servers> deploy('demoApp',
   'c:/myapps/demos/app/demoApp.ear', targets='myserver',
   planPath='c:/myapps/demos/app/plan/plan.xml', timeout=120000)
```

The following example deploys the jmsApp application located at c:/myapps/demos/jmsApp/demo-jms.xml, targeting the application module to a specific target.

```
wls:/mydomain/serverConfig/Servers> deploy('jmsApp', path=
   'c:/myapps/demos/jmsApps/demo-jms.xml', subModuleTargets='jmsApp@managed1')
```

The following example shows how to set the application version (appVersion) to a unique identifier to support production (side-by-side) redeployment. This example deploys the demoApp application in the archive file located at c:/myapps/demos/app/demoApp.ear, and sets the application and archive version numbers to the specified values.

```
wls:/mydomain/serverConfig/Servers> deploy('demoApp', 'c:/myapps/demos/app/demoApp.ear',
   archiveVersion='901-101', appVersion='901-102')
```

See Redeploying Applications in a Production Environment in Deploying Applications to Oracle WebLogic Server.

The following example shows how to deploy myapp.ear in nostage mode using the deployment plan plan.xml.

```
wls:/mydomain/serverConfig/Servers> deploy('myApp',
   'c:/myapps/myapp.ear', 'mywar@webserver,myjar@ejbserver',
   'c:/myapps/plan.xml')
```

3.5.1.2 distributeApplication

Command Category: Deployment Commands

Use with WLST: Online

Description

Copies the deployment bundle to the specified targets. The deployment bundle includes module, configuration data, and any additional generated code. The distributeApplication command does not start deployment.

The distributeApplication command returns a WLSTProgress object that you can access to check the status of the command. See WLSTProgress Object in Understanding the WebLogic Scripting Tool. In the event of an error, the command returns a WLSTException.
Syntax

distributeApplication(appPath, [planPath], [targets], [resourceGroup],
[resourceGroupTemplate], [partition], [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appPath</td>
<td>Name of the archive file or root of the exploded archive directory to be</td>
</tr>
<tr>
<td></td>
<td>deployed.</td>
</tr>
<tr>
<td>planPath</td>
<td>Optional. Name of the deployment plan file. The filename can be absolute</td>
</tr>
<tr>
<td></td>
<td>or relative to the application directory. This argument defaults to the plan/</td>
</tr>
<tr>
<td></td>
<td>plan.xml file in the application directory, if one exists.</td>
</tr>
<tr>
<td>targets</td>
<td>Optional. Comma-separated list of targets. Each target may be qualified</td>
</tr>
<tr>
<td></td>
<td>with a Java EE module name (for example, module1@server1) enabling you</td>
</tr>
<tr>
<td></td>
<td>to deploy different modules of the application archive on different servers.</td>
</tr>
<tr>
<td></td>
<td>This argument defaults to the server to which WLST is currently connected.</td>
</tr>
<tr>
<td>resourceGroup</td>
<td>Optional. Name of the resource group to which this deployment is scoped.</td>
</tr>
<tr>
<td></td>
<td>Specify a resource group when deploying to a partition resource group or a</td>
</tr>
<tr>
<td></td>
<td>domain resource group. The specified resource group must already exist</td>
</tr>
<tr>
<td></td>
<td>before executing the distributeApplication command.</td>
</tr>
<tr>
<td>resourceGroupTemplate</td>
<td>Optional. Name of the resource group template to which this deployment is</td>
</tr>
<tr>
<td></td>
<td>scoped. The specified resource group template must already exist before</td>
</tr>
<tr>
<td></td>
<td>executing the distributeApplication command.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. Name of the partition to which this deployment is scoped. The</td>
</tr>
<tr>
<td></td>
<td>partition name will be derived from the current invocation context if this</td>
</tr>
<tr>
<td></td>
<td>argument is not specified. The specified partition must already exist before</td>
</tr>
<tr>
<td></td>
<td>executing the distributeApplication command.</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of deployment options, specified as</td>
</tr>
<tr>
<td></td>
<td>name-value pairs. For a list of valid deployment options, see the options</td>
</tr>
<tr>
<td></td>
<td>argument description in deploy.</td>
</tr>
</tbody>
</table>

Example

The following example loads the BigApp application located in the c:/myapps directory,
and stores the WLSTProgress object in a user-defined variable, in this case, progress.

The following example distributes the c:/myapps/BigApp application to the myserver,
oamserver1, and oamcluster Servers, using the deployment plan defined at c:/
deployment/BigApp/plan.xml.

  wls:/offline> progress=distributeApplication('c:/myapps/BigApp',
   'c:/deployment/BigApp/plan.xml', 'myserver,oamserver1,oamcluster')
  Distributing Application and Plan ...
  Successfully distributed the application.

The previous example stores the WLSTProgress object in a user-defined variable, in this
case, progress. You can then use the progress variable to determine if the
distributeApplication command has completed. For example:

  wls:/mydomain/serverConfig/Servers> progress.isCompleted()
  1
  wls:/mydomain/serverConfig/Servers>

See WLSTProgress Object in Understanding the WebLogic Scripting Tool.
3.5.1.3 appendToExtensionLoader

Command Category: Deployment Commands

Use with WLST: Online

Description

Distributes code source jar to targets and use it to extend the WebLogic Extension Loader.

Syntax

appendToExtensionLoader([options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>options</td>
<td>This command supports the following options:</td>
</tr>
<tr>
<td></td>
<td>targets—A comma-separated list of server names, cluster names, or both. The default value is All.</td>
</tr>
<tr>
<td></td>
<td>source—Specifies the code source jar to distribute.</td>
</tr>
<tr>
<td></td>
<td>upload—Transfers the specified code source jar to the Administration Server before distribution. Use this option when you are on a remote machine and you cannot copy the code source jar to the Administration Server by other means. The code source jar is uploaded to the WebLogic Administration Server’s upload directory before the distribution.</td>
</tr>
</tbody>
</table>

Example

The following example distributes a code source jar to the managed servers in the Cluster-1 and adds the jars to the WebLogic Extension Loader’s class search space for the running servers:

appendToExtensionLoader(source='custom.jar', targets='Cluster-1')

3.5.1.4 getWLDM

Command Category: Deployment Commands

Use with WLST: Online

Description

Returns the WebLogic DeploymentManager object. You can use the object methods to configure and deploy applications. WLST must be connected to an Administration Server to run this command. In the event of an error, the command returns a WLSTException.

Syntax

getWLDM()

Example

The following example gets the WebLogicDeploymentManager object and stores it in the wldm variable.
3.5.1.5 listApplications

Command Category: Deployment Commands

Use with WLST: Online

Description

Lists all applications that are currently deployed in the WebLogic domain.

In the event of an error, the command returns a WLSTException.

Syntax

listApplications()

Example

The following example lists all the applications currently deployed in mydomain.

wls:/mydomain/serverConfig> listApplications()
SamplesSearchWebApp
asyncServletEar
jspSimpleTagEar
ejb30
webservicesJwsSimpleEar
ejb20BeanMgedEar
xmlBeanEar
extServletAnnotationsEar
examplesWebApp
apache_xbean.jar
mainWebApp
jdbcRowSetsEar

3.5.1.6 loadApplication

Command Category: Deployment Commands

Use with WLST: Online and Offline

Description

Loads an application and deployment plan into memory. When used in online mode, you can connect only to the Administration Server; you cannot connect to a Managed Server.

The loadApplication command returns a WLSTPlan object that you can access to make changes to the deployment plan. See WLSTPlan Object in Understanding the WebLogic Scripting Tool. In the event of an error, the command returns a WLSTException.
Note:
The `loadApplication` command does not support loading an application from a remote machine. The application must be on the same machine where the Administration Server is running.

**Syntax**

`loadApplication(appPath, [planPath], [createPlan])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appPath</td>
<td>Name of the top-level parent application directory, archive file, or root of the exploded archive directory containing the application to be loaded. The target application directory must be on the same machine where the Administration Server is located.</td>
</tr>
<tr>
<td>planPath</td>
<td>Optional. Name of the deployment plan file. The filename can be absolute or relative to the application directory. This argument defaults to the <code>plan/plan.xml</code> file in the application directory, if one exists.</td>
</tr>
<tr>
<td>createPlan</td>
<td>Optional. Boolean value specifying whether WLST should create a plan in the application directory if the specified plan does not exist. This argument defaults to <code>true</code>.</td>
</tr>
</tbody>
</table>

**Example**

The following example loads the `c:/myapps/myejb.jar` application using the plan file at `c:/myplans/myejb/plan.xml`.

```wls:/offline> myPlan=loadApplication('c:/myapps/myejb.jar', 'c:/myplans/myejb/plan.xml')
Loading application from c:/myapps/myejb.jar and deployment plan from c:/myplans/myejb/plan.xml ... 
Successfully loaded the application.
```

The previous example stores the `WLSTPlan` object returned in the `myPlan` variable. You can then use `myPlan` variable to display information about the plan, such as the variables. For example:

```wls:/offline> myPlan.showVariables()
MyEJB jndi.ejb
MyWAR app.foo
```

See `WLSTPlan Object` in *Understanding the WebLogic Scripting Tool*.

### 3.5.1.7 redeploy

**Command Category:** Deployment Commands  
**Use with WLST:** Online  
**Description**

Reloads classes and redeploy a previously deployed application.
The `redeploy` command returns a WLSTProgress object that you can access to check the status of the command. See WLSTProgress Object in *Understanding the WebLogic Scripting Tool*.

In the event of an error, the command returns a WLSTException.

See Overview of Common Deployment Scenarios in *Deploying Applications to Oracle WebLogic Server*.

**Syntax**

```
re部署(appName, [planPath], [resourceGroupTemplate], [partition], [removePlanOverride], [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appName</td>
<td>Name of the application to be redeployed.</td>
</tr>
<tr>
<td>planPath</td>
<td>Optional. Name of the deployment plan file. The filename can be absolute or relative to the application directory. This argument defaults to the <code>plan/plan.xml</code> file in the application directory, if one exists.</td>
</tr>
<tr>
<td>resourceGroupTemplate</td>
<td>Optional. Name of the resource group template to which this deployment is scoped. The specified resource group template must already exist before executing the <code>redeploy</code> command.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. Name of the partition to which this deployment is scoped. The partition name will be derived from the current invocation context if this argument is not specified. The specified partition must already exist before executing the <code>redeploy</code> command.</td>
</tr>
<tr>
<td>removePlanOverride</td>
<td>Optional. Boolean value (true or false) indicating whether the previous deployment plan override at the resource group level should be removed. This option defaults to false.</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of deployment options, specified as name-value pairs. For a list of valid deployment options, see <code>options</code> argument description in <code>deploy</code>.</td>
</tr>
</tbody>
</table>

In addition, the following deployment option can be specified for the `redeploy` command:

- **appPath**—Name of the archive file or root of the exploded archive directory to be redeployed.
- **delta**—A list of file paths or names relative to the root of the staged application that are to be replaced.
- **deploymentPrincipalName**—String value specifying the principal for redeploying the file or archive during server starts. You can use this option to overwrite the current `<deployment-principal-name>` in the `config.xml` file.

**Example**

The following example redeploy `myApp` application using the `plan.xml` file located in the `c:/myapps` directory.

```
WLS:/mydomain/serverConfig> progress=redeploy('myApp' 'c:/myapps/plan.xml')
Redeploying application 'myApp' ...
Redeployment of 'myApp' is successful
WLS:/mydomain/serverConfig>
```
The previous example stores the WLSTProgress object returned in a user-defined variable, in this case, progress. You can then use the progress variable to access the state of the redeploy command. For example:

```
wls:/mydomain/serverConfig/Servers> progress.getState()
'completed'
wls:/mydomain/serverConfig/Servers>
```

See WLSTProgress Object in Understanding the WebLogic Scripting Tool.

### 3.5.1.8 startApplication

**Command Category:** Deployment Commands

**Use with WLST:** Online

**Description**

Starts an application, making it available to users. The application must be fully configured and available in the WebLogic domain.

The `startApplication` command returns a WLSTProgress object that you can access to check the status of the command. See WLSTProgress Object in Understanding the WebLogic Scripting Tool. In the event of an error, the command returns a WLSTException.

**Syntax**

```
startApplication(appName, [partition], [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>appName</code></td>
<td>Name of the application to start, as specified in the plan.xml file.</td>
</tr>
<tr>
<td><code>partition</code></td>
<td>Optional. Name of the partition to which this deployment is scoped. The partition name will be derived from the current invocation context if this argument is not specified. The specified partition must already exist before executing the startApplication command.</td>
</tr>
<tr>
<td><code>options</code></td>
<td>Optional. Comma-separated list of deployment options, specified as name-value pairs. For a list of valid deployment options, see options argument description in deploy.</td>
</tr>
</tbody>
</table>

**Example**

The following example starts the BigApp application with the specified deployment options.

```
wls:/mydomain/serverConfig/Servers> progress=startApplication('BigApp', stageMode='NOSTAGE', adminMode='false')
Starting the application...
Successfully started the application.
```

The previous example stores the WLSTProgress object returned in a user-defined variable, in this case, progress. You can then use the progress variable to access the state of the startApplication command. For example:
3.5.1.9 stopApplication

Command Category: Deployment Commands

Use with WLST: Online

Description

Stops an application, making it unavailable to users. The application must be fully configured and available in the WebLogic domain.

The `stopApplication` command returns a WLSTProgress object that you can access to check the status of the command. See WLSTProgress Object in *Understanding the WebLogic Scripting Tool*.

In the event of an error, the command returns a WLSTException.

Syntax

```
stopApplication(appName, [partition], [options])
```

### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>appName</code></td>
<td>Name of the application to stop, as specified in the <code>plan.xml</code> file.</td>
</tr>
<tr>
<td><code>partition</code></td>
<td>Optional. Name of the partition to which this deployment is scoped. The partition name will be derived from the current invocation context if this argument is not specified. The specified partition must already exist before executing the <code>stopApplication</code> command.</td>
</tr>
<tr>
<td><code>options</code></td>
<td>Optional. Comma-separated list of deployment options, specified as name-value pairs. For a list of valid deployment options, see <code>options</code> argument description in <code>deploy</code>.</td>
</tr>
</tbody>
</table>

Example

The following example stops the `BigApp` application.

```
wls:/offline> progress=stopApplication('BigApp')
Stopping the application...
Successfully stopped the application.
```

The previous example stores the WLSTProgress object returned in a user-defined variable, in this case, `progress`. You can then use the `progress` variable to check whether `stopApplication` command is running. For example:

```
wls:/mydomain/serverConfig/Servers> progress.isRunning()
0
wls:/mydomain/serverConfig/Servers>
```

See WLSTProgress Object in *Understanding the WebLogic Scripting Tool*. 
3.5.1.10 undeploy

Command Category: Deployment Commands

Use with WLST: Online

Description

Undeploys an application from the specified servers.

The undeploy command returns a WLSTProgress object that you can access to check the status of the command. See WLSTProgress Object in Understanding the WebLogic Scripting Tool. In the event of an error, the command returns a WLSTException.

See Overview of Common Deployment Scenarios in Deploying Applications to Oracle WebLogic Server.

Syntax

undeploy(appName, [targets], [resourceGroupTemplate], [partition], [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appName</td>
<td>Deployment name for the deployed application.</td>
</tr>
<tr>
<td>targets</td>
<td>Optional. List of the target servers from which the application will be removed. If not specified, defaults to all current targets.</td>
</tr>
<tr>
<td>resourceGroupTemplate</td>
<td>Optional. Name of the resource group template to which this deployment is scoped. The specified resource group template must already exist before executing the undeploy command.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. Name of the partition to which this deployment is scoped. The partition name will be derived from the current invocation context if this argument is not specified. The specified partition must already exist before executing the undeploy command.</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of deployment options, specified as name-value pairs. For a list of valid deployment options, see options argument description in deploy.</td>
</tr>
</tbody>
</table>

Example

The following example removes the businessApp application from all target servers. WLST waits 60,000 ms for the process to complete.

```
wis:/mydomain/serverConfig> undeploy('businessApp', timeout=60000)
Undeploying application businessApp ...
Completed the undeployment of Application with status
Current Status of your Deployment:
Deployment command type: undeploy
Deployment State : completed
Deployment Message : no message
wis:/mydomain/serverConfig>
```
3.5.1.11 updateApplication

Command Category: Deployment Commands

Use with WLST: Online

Description

Updates an application configuration using a new deployment plan. The application must be fully configured and available in the WebLogic domain.

The updateApplication command returns a WLSTProgress object that you can access to check the status of the command. See WLSTProgress Object in Understanding the WebLogic Scripting Tool. In the event of an error, the command returns a WLSTException.

Syntax

updateApplication(appName, [planPath], [resourceGroupTemplate], [partition], [removePlanOverride], [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>appName</td>
<td>Name of the application, as specified in the current plan.xml file.</td>
</tr>
<tr>
<td>planPath</td>
<td>Optional. Name of the new deployment plan file. The filename can be absolute or relative to the application directory.</td>
</tr>
<tr>
<td>resourceGroupTemplae</td>
<td>Optional. Name of the resource group template to which this deployment is scoped. The specified resource group template must already exist before executing the updateApplication command.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. Name of the partition to which this deployment is scoped. The partition name will be derived from the current invocation context if this argument is not specified. The specified partition must already exist before executing the updateApplication command.</td>
</tr>
<tr>
<td>removePlanOverride</td>
<td>Optional. Boolean value (true or false) indicating whether the previous deployment plan override at the resource group level should be removed. This option defaults to false.</td>
</tr>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of deployment options, specified as name-value pairs. For a list of valid deployment options, see options argument description in deploy.</td>
</tr>
</tbody>
</table>

Example

The following example updates the application configuration for BigApp using the plan.xml file located in c:/myapps/BigApp/newPlan.

wls:\offline> progress=updateApplication('BigApp', 'c:/myapps/BigApp/newPlan/plan.xml', stageMode='STAGE', adminMode='false')
Updating the application...
Successfully updated the application.

The previous example stores the WLSTProgress object returned in a user-defined variable, in this case, progress. You can then use the progress variable to access the state of the updateApplication command. For example:
See WLSTProgress Object in *Understanding the WebLogic Scripting Tool.*

### 3.6.1 Diagnostics Commands

Use the WLST diagnostics commands to retrieve diagnostics data by executing queries against the WebLogic Diagnostics Framework (WLDF) data stores. Table 3-6 lists and summarizes these commands. For more information about WLDF, see What Is the WebLogic Diagnostics Framework? in *Configuring and Using the Diagnostics Framework for Oracle WebLogic Server.*

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>activateDebugPatch</code></td>
<td>Activate a debug patch on the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td><code>captureAndSaveDiagnosticImage</code></td>
<td>Capture a diagnostic image and downloads it to the client.</td>
<td>Online</td>
</tr>
<tr>
<td><code>createSystemResourceControl</code></td>
<td>Create a diagnostics system resource control using specified descriptor file.</td>
<td>Online</td>
</tr>
<tr>
<td><code>deactivateAllDebugPatches</code></td>
<td>Deactivate all debug patches on the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td><code>deactivateDebugPatches</code></td>
<td>Deactivate debug patches on the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td><code>destroySystemResourceControl</code></td>
<td>Destroy a diagnostics system resource control.</td>
<td>Online</td>
</tr>
<tr>
<td><code>disableSystemResource</code></td>
<td>Deactivate a diagnostic system resource control that is activated on a server instance.</td>
<td>Online</td>
</tr>
<tr>
<td><code>dumpDiagnosticData</code></td>
<td>Poll for live data matching the Harvester configuration for a particular WLDF system resource and dump it to a local file.</td>
<td>Online</td>
</tr>
<tr>
<td><code>enableSystemResource</code></td>
<td>Activate a diagnostic system resource on a server instance</td>
<td>Online</td>
</tr>
<tr>
<td><code>exportDiagnosticData</code></td>
<td>Execute a query against the specified log file.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>exportDiagnosticDataFromServer</code></td>
<td>Execute a query on the server side and retrieves the exported WebLogic Diagnostic Framework (WLDF) data.</td>
<td>Online</td>
</tr>
<tr>
<td><code>exportHarvestedTimeSeriesData</code></td>
<td>Export the harvested metric data within the specified interval in CSV format.</td>
<td>Online</td>
</tr>
<tr>
<td><code>exportHarvestedTimeSeriesDataOffline</code></td>
<td>Export the harvested metric data in offline mode within the specified interval, in CSV format.</td>
<td>Offline</td>
</tr>
<tr>
<td><code>getAvailableCapturedImages</code></td>
<td>Return a list of the previously captured diagnostic images.</td>
<td>Online</td>
</tr>
<tr>
<td><code>getAvailableDiagnosticDataAccessorNames</code></td>
<td>Get the diagnostic data accessor names currently available on a server or partition.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 3-6 (Cont.) Diagnostic Command for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>listDebugPatches</td>
<td>List active and available debug patches on the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>listDebugPatchTasks</td>
<td>List debug patch tasks from the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>listSystemResourceControls</td>
<td>List the diagnostic system resources that are currently deployed on a server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>mergeDiagnosticData</td>
<td>Merges a set of data files.</td>
<td>Online</td>
</tr>
<tr>
<td>purgeCapturedImages</td>
<td>Purge the diagnostic image files on the server as per the specified age criteria.</td>
<td>Online</td>
</tr>
<tr>
<td>purgeDebugPatchTask</td>
<td>Purge debug patch tasks from the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>showDebugPatchInfo</td>
<td>Display details about a debug patch on the specified targets.</td>
<td>Online</td>
</tr>
<tr>
<td>saveDiagnosticImageCaptureFile</td>
<td>Download the specified diagnostic image capture.</td>
<td>Online</td>
</tr>
<tr>
<td>saveDiagnosticImageCaptureEntryFile</td>
<td>Download a specific entry from the diagnostic image capture.</td>
<td>Online</td>
</tr>
</tbody>
</table>

3.6.1.1 activateDebugPatch

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Activates a debug patch on the specified targets. While connected to the Administration Server, the optional target parameter can be specified to activate the debug patch on multiple Managed Servers and clusters. If the target parameter is not specified, the debug patch will be activated only on the connected server.

The activateDebugPatch command returns an array of tasks, each element corresponding to the activation activity on an affected target server instance.

Syntax

activateDebugPatch(patch, [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>patch</td>
<td>Name of the debug patch to be activated. The patch must exist at the applicable target servers. Use the listDebugPatches command to view the list of available and active patches on the target servers.</td>
</tr>
</tbody>
</table>
### Argument Description

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
</table>
| **options** | **app**—Activates the debug patch within the scope of the specified application. If not specified, the debug patch will be activated at the system level. The default value is None.  
**module**—Activates the debug patch within the scope of the specified module in the application. This option is ignored if the app option is set to None and the debug patch is activated at the system level.  
**partition**—Activates the debug patch within the scope of the specified partition. This option is ignored if the app option is set to None and the debug patch is activated at the system level.  
**target**—Administration Server only. A comma-separated list of server names, cluster names, or both where the debug patch will be activated. The default value is None. |

### Example

The following example activates the dyndebug_app01.jar debug patch within the scope of the application, myapp, in the partition, myPartition, on the cluster, myCluster.

```bash
wls:/dyndebugDomain/serverConfig> tasks=activateDebugPatch('dyndebug_app01.jar', app='myapp', partition='myPartition', target='myCluster')
```

#### 3.6.1.2 captureAndSaveDiagnosticImage

Command Category: Diagnostics Commands

Use with WLST: Online

**Descriptions**

Captures a diagnostic image and download it to the client.

**Syntax**

captureAndSaveDiagnosticImage([options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
</table>
| **options** | This command supports the following options:  
- **Server**—Administration Server only. The name of the target server. The default value is None. This option has been replaced by the Target option; all WLST scripts should be updated to use Target instead.  
- **Target**—Administration Server only. A comma-separated list of server names, cluster names, or both. The default value is None.  
- **outputFile**—The file in which to save the image.  
- **outputDir**—The destination directory into which image files will be copied if multiple files are retrieved. The default value is the current directory.  
- **partition**—The name of the partition from which the image file is retrieved. |

### Example

The following example captures a diagnostic image on the server, myserver, and members of the cluster, Cluster-0, and retrieves it on the client:
The following example captures a diagnostic image on the specified partition and retrieves it on the client:

```
wls:/partitionDomain/serverConfig> captureAndSaveDiagnosticImage(partition='p1')
Capture and save diagnostics images
Image created on the server diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_50_38.zip
Saving diagnostic image diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_50_38.zip from server to
diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_50_38.zip for partition p1
```

### 3.6.1.3 createSystemResourceControl

**Command Category:** Diagnostics Commands

**Use with WLST:** Online

**Description**

Creates a diagnostics resource from a diagnostic descriptor file without changing the domain configuration. Note that the resource remains in memory only until the server is shut down; the resource is not deployed the next time the server is booted. That is, this command effects a run-time change only, not a configuration change.

**Syntax**

```
createSystemResourceControl(resourceName, descriptorFile, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceName</td>
<td>Name of the diagnostic resource.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The resource must be enabled separately through the enableSystemResource() function, and the features in the resource itself must be enabled.</td>
</tr>
<tr>
<td>descriptorFile</td>
<td>Local path to the diagnostic descriptor file.</td>
</tr>
</tbody>
</table>
### Argument Options

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td>Administration Server only. The target server name. The default value is None. This option has been replaced by the Target option; all WLST scripts should be updated to use Target instead.</td>
</tr>
<tr>
<td>Target</td>
<td>A comma-separated list of server names, cluster names, or both. The default value is None.</td>
</tr>
<tr>
<td>enabled</td>
<td>If set to true, the system resource is enabled after it has been created. The default value is false. Note that the resource can be enabled or disabled separately by using the enableSystemResource and disableSystemResource commands. Note also that the features in the resource must be enabled in order to be active.</td>
</tr>
</tbody>
</table>

### Examples

The following example creates a system resource control called myExternalResource from the diagnostic descriptor file mywldf.xml with a server target myserver and a cluster target mycluster. The resource control is not enabled.

```bash
wls:/mydomain/serverRuntime> createSystemResourceControl('myExternalResource', 'C:/temp/mywldf.xml', Target='myserver,mycluster')
```

The following example creates and enables a system resource control called myExternalResource from the diagnostic descriptor file mywldf.xml with a server target myserver and a cluster target mycluster.

```bash
wls:/mydomain/serverRuntime> createSystemResourceControl('myExternalResource', 'C:/temp/mywldf.xml', Target='myserver,mycluster', enabled='true')
```

The following example creates and enables a system resource control called myExternalResource from the diagnostic descriptor file mywldf.xml. Because no targets are specified, the target defaults to the currently connected server.

```bash
wls:/mydomain/serverRuntime> createSystemResourceControl('myExternalResource', 'C:/temp/mywldf.xml', enabled='true')
```

### 3.6.1.4 deactivateAllDebugPatches

**Command Category:** Diagnostics Commands

**Use with WLST:** Online

**Description**

Deactivates all debug patches on the specified targets. While connected to the Administration Server, the optional target parameter can be specified to deactivate all debug patches on multiple Managed Servers and clusters. If the target parameter is not specified, the debug patches only on the connected server will be deactivated.

The `deactivateAllDebugPatches` command returns an array of tasks, each element corresponding to the deactivation activity on an affected target server instance.

**Syntax**

```bash
deactivateAllDebugPatches([target])
```
### 3.6.1.5 deactivateDebugPatches

**Command Category:** Diagnostics Commands

**Use with WLST:** Online

**Description**

Deactivates a debug patch on the specified targets. While connected to the Administration Server, the optional `target` parameter can be specified to deactivate the debug patch on multiple Managed Servers and clusters. If the `target` parameter is not specified, the debug patch only on the connected server will be deactivated.

The `deactivateDebugPatches` command returns an array of tasks, each element corresponding to the deactivation activity on an affected target server instance.

**Syntax**

```
deactivateDebugPatches(patches, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>patches</code></td>
<td>Comma-separated list of debug patches to be deactivated.</td>
</tr>
</tbody>
</table>
| `options` | app—Deactivates debug patches within the scope of the specified application. If not specified, the debug patch will be deactivated at the system level. The default value is None.  
module—Deactivates debug patches within the scope of the specified module in the application. This option is ignored if the app option is set to None and the debug patch is deactivated at the system level.  
partition—Deactivates debug patches within the scope of the specified partition. This option is ignored if the app option is set to None and the debug patch is deactivated at the system level.  
target—Administration Server only. A comma-separated list of server names, cluster names, or both on which the debug patches will be deactivated. The default value is None. |

**Example**

The following example deactivates a list of debug patches within the scope of an application `myapp`, in the partition `myPartition`, on the cluster `myCluster`.  

```bash
wls:/dynddebugDomain/serverConfig> tasks=deactivateAllDebugPatches(target='myCluster')
```
3.6.1.6 destroySystemResourceControl

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Destroys a diagnostics resource that was deployed from an external descriptor using the `createSystemResourceControl()` function.

Note:

To disable a diagnostics resource without destroying it, use the `disableSystemResource()` command.

Syntax

```
destroySystemResourceControl(resourceName, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceName</td>
<td>Name of the diagnostic resource.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The resource must be enabled separately through the <code>enableSystemResource()</code> function, and the features in the resource itself must be enabled.</td>
</tr>
<tr>
<td>options</td>
<td><strong>Server</strong>—Administration Server only. The name of the server on which the resource is currently deployed. The default value is None. This option has been replaced by the Target option; all WLST scripts should be updated to use Target instead.</td>
</tr>
<tr>
<td></td>
<td><strong>Target</strong>—A comma-separated list of server names, cluster names, or both on which the resource is currently deployed. The default value is None.</td>
</tr>
</tbody>
</table>

Example

The following example destroys a diagnostics system resource control called `myExternalResource` that was deployed on the `myserver` server.

```
wlst:/mydomain/serverRuntime>destroySystemResourceControl('myExternalResource', Target='myserver')
```

3.6.1.7 disableSystemResource

Command Category: Diagnostic Commands

Use with WLST: Online

Description

Deactivates a diagnostic system resource that is enabled on a server instance.
Syntax

disableSystemResource(resourceName, [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceName</td>
<td>Name of the diagnostic resource. Note: The resource must be enabled separately through the enableSystemResource() function, and the features in the resource itself must be enabled.</td>
</tr>
<tr>
<td>options</td>
<td>Server—Administration Server only. The target server name. The default value is None. This option has been replaced by the Target option; all WLST scripts should be updated to use Target instead. Target—A comma-separated list of server names, cluster names, or both. The default value is None.</td>
</tr>
</tbody>
</table>

Example

The following example deactivates a diagnostics system resource called mySystemResource that is activated on the myserver server.

```java
wls:/mydomain/
serverRuntime>disableSystemResource('mySystemResource', Target='myserver')
```

3.6.1.8 dumpDiagnosticData

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Polls for live diagnostics data matching the Harvester configuration for a particular WLDF system resource at the specified frequency and duration, and dumps it to a local file. The data is written in CSV format.

If WLDF detects a change in the set of data collected between successive sampling periods, a new output file is created and an informational message is displayed. The creation of multiple output files can result if the sampling interval is particularly long. You can merge these data files using the mergeDiagnosticData command.

Syntax

dumpDiagnosticData(resourceName, filename, frequency, duration, [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceName</td>
<td>The name of the system resource from which the data is polled. Note: The resource must be enabled separately through the enableSystemResource() function, and the features in the resource itself must be enabled.</td>
</tr>
<tr>
<td>filename</td>
<td>The name of the file into which the data is to be dumped.</td>
</tr>
<tr>
<td>frequency</td>
<td>The frequency (in milliseconds) at which data is polled from the system resource Harvester.</td>
</tr>
</tbody>
</table>
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>duration</td>
<td>The total duration (in milliseconds) for which the data will be collected and saved.</td>
</tr>
</tbody>
</table>
| options  | **Server**—Administration Server only. The name of the server on which the system resource is running.  
**dateFormat**—A SimpleDateFormat pattern. The default is "EEE MM/dd/YY k:mm:ss:SSS z". |

### Example

The following example dumps diagnostic Harvester data for `mySystemResource` on the server `myserver` to the local file `C:\temp\temp.dat`, and sets the date format to `HH:mm:ss:SSS`.

```java
wls:/mydomain/serverRuntime>dumpDiagnosticData('mySystemResource',  
'C:/temp/temp.dat',1000,6000,Server='myserver',dateFormat='HH:mm:ss:SSS')
```

Connecting to http://localhost:7001 with userid weblogic ...

Dumping data for system resource mySystemResource in file temp.data every second for 6 seconds.

### 3.6.1.9 enableSystemResource

**Command Category:** Diagnostics Commands  
**Use with WLST:** Offline

**Description**

Activates a diagnostic system resource on a server instance.

**Syntax**

```
enableSystemResource(resourceName, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceName</td>
<td>Name of the diagnostic system resource.</td>
</tr>
</tbody>
</table>
| options  | **Server**—Administration Server only. The target server name. The default value is `None`. This option has been replaced by the `Target` option; all WLST scripts should be updated to use `Target` instead.  
**Target**—A comma-separated list of server names, cluster names, or both. The default value is `None`. |

### Example

The following example activates the diagnostic system resource `mySystemResource` on the `myServer` server.

```java
wls:/mydomain/serverRuntime>enableSystemResource('mySystemResource',Target='myserver')
```
3.6.1.10 exportDiagnosticData

Command Category: Diagnostics Commands

Use with WLST: Offline

Description

Executes a query against the specified log file. The results are saved to an XML, CSV or TXT file. The default output format is XML.

See Accessing Diagnostic Data With the Data Accessor in Configuring and Using the Diagnostics Framework for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

Syntax

exportDiagnosticData([options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of export diagnostic options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• beginTimestamp—Timestamp (inclusive) of the earliest record to be added to the result set. This option defaults to 0.</td>
</tr>
<tr>
<td></td>
<td>• endTimestamp—Timestamp (exclusive) of the latest record to be added to the result set. This option defaults to Long.MAX_VALUE.</td>
</tr>
<tr>
<td></td>
<td>• exportFileName—Name of the file to which the data is exported. This option defaults to export.xml.</td>
</tr>
<tr>
<td></td>
<td>• logicalName—Logical name of the log file being read. Valid values include: HarvestedDataArchive, EventsDataArchive, ServerLog, DomainLog, HTTPAccessLog, WebAppLog, ConnectorLog, and JMSMessageLog. This option defaults to ServerLog.</td>
</tr>
<tr>
<td></td>
<td>• logName—Base log filename containing the log data to be exported. This option defaults to myserver.log in the current directory.</td>
</tr>
<tr>
<td></td>
<td>• logRotationDir—Directory containing the rotated log files. This option defaults to “.” (which is the same directory in which the log file is stored).</td>
</tr>
<tr>
<td></td>
<td>• query—Expression specifying the filter condition for the data records to be included in the result set. This option defaults to “” (empty string), which returns all data. See WLDF Query Language in Configuring and Using the Diagnostics Framework for Oracle WebLogic Server.</td>
</tr>
<tr>
<td></td>
<td>• storeDir—Location of the diagnostic store for the server. This option defaults to ../data/store/diagnostics.</td>
</tr>
<tr>
<td></td>
<td>• format—The format in which the data will be exported. The supported formats are xml, txt and csv. The default format is xml.</td>
</tr>
<tr>
<td></td>
<td>• last—The timestamp range specification for the last n records. When specified, the beginTimestamp and endTimestamp options are ignored. The format is XXd Yy h ZZm, for example, 1d 5h 30m specifies data that is one day, five hours and 30 minutes old. You can specify any combination of day, hour, and minute components in any order.</td>
</tr>
</tbody>
</table>

Example

The following example executes a query against the ServerLog named myserver.log and stores the results in the file named myExport.xml.
3.6.1.11 exportDiagnosticDataFromServer

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Executes a query on the server side and retrieves the exported WebLogic Diagnostic Framework (WLDF) data. The results are saved to an XML, CSV or TXT file. The default output format is XML. This command requires that you have a secure connection to the Managed Server.

See Accessing Diagnostic Data With the Data Accessor in Configuring and Using the Diagnostics Framework for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

Syntax

exportDiagnosticDataFromServer([options])
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of export diagnostic options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• <code>beginTimestamp</code>—Timestamp (inclusive) of the earliest record to be added to the result set. This option defaults to 0.</td>
</tr>
<tr>
<td></td>
<td>• <code>endTimestamp</code>—Timestamp (exclusive) of the latest record to be added to the result set. This option defaults to <code>Long.MAX_VALUE</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>exportFileName</code>—Name of the file to which the data is exported. This option defaults to <code>export.xml</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>logicalName</code>—Logical name of the log file being read. Valid values include: HarvestedDataArchive, EventsDataArchive, ServerLog, DomainLog,</td>
</tr>
<tr>
<td></td>
<td>HTTPAccessLog, WebAppLog, ConnectorLog, and JMSMessageLog. This option defaults to <code>ServerLog</code>.</td>
</tr>
<tr>
<td></td>
<td>• <code>query</code>—Expression specifying the filter condition for the data records to be included in the result set. This option defaults to &quot;&quot; (empty string), which returns all data.</td>
</tr>
<tr>
<td></td>
<td>• <code>server</code>—The name of the Managed Server from which to retrieve the data. This option can be used only if you are currently connected to the Administration Server. By default, data is retrieved only from the server to which WLST is connected.</td>
</tr>
<tr>
<td></td>
<td>• <code>partition</code>—The name of the partition from which data will be retrieved.</td>
</tr>
<tr>
<td></td>
<td>• <code>format</code>—The format in which the data will be exported. The supported formats are xml, txt, and csv. The default format is xml.</td>
</tr>
<tr>
<td></td>
<td>• <code>last</code>—The timestamp range specification for the last n records. When specified, the <code>beginTimestamp</code> and <code>endTimestamp</code> options are ignored. The format is <code>XXd YYh ZZm</code>, for example, <code>1d 5h 30m</code> specifies data that is one day, five hours and 30 minutes old. You can specify any combination of day, hour, and minute components in any order.</td>
</tr>
</tbody>
</table>

**Example**

The following example executes a query against the `HTTPAccessLog` and stores the results in the file named `myExport.xml`.

```
    wls:/mydomain/serverRuntime>
    exportDiagnosticDataFromServer(logicalName="HTTPAccessLog", exportFileName="myExport.xml")
```

### 3.6.1.12 `exportHarvestedTimeSeriesData`

**Command Category: Diagnostics Commands**

**Use with WLST: Online**

**Description**

Exports harvested metric data from the diagnostic archive for a particular server-scoped or partition-scoped WLDF system resource.

See Configuring the Harvester for Metric Collection in *Configuring and Using the Diagnostics Framework for Oracle WebLogic Server*.

In the event of an error, the command returns a `WLSTException`. 
Syntax

\texttt{exportHarvestedTimeSeriesData(wldfSystemResource, [options])}

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{wldfSystemResource}</td>
<td>The name of the WLDF system resource from which the harvested data is exported.</td>
</tr>
<tr>
<td>\texttt{options}</td>
<td>Comma-separated list of export diagnostic options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• \texttt{beginTimestamp} — Beginning timestamp of the harvested data to be retrieved.</td>
</tr>
<tr>
<td></td>
<td>• \texttt{endTimestamp} — Ending timestamp of the harvested data to be retrieved.</td>
</tr>
<tr>
<td></td>
<td>• \texttt{exportFile} — The path to the file in which the exported data is written in the CSV format.</td>
</tr>
<tr>
<td></td>
<td>• \texttt{server} — The name of the server on which the WLDF system resource is running, and the server from which the harvested data will be retrieved. This option can be used only if WLST is connected to the Administration Server. If not specified, the data will be retrieved from the server to which WLST is connected.</td>
</tr>
<tr>
<td></td>
<td>• \texttt{last} — The timestamp range specification for the last n records. When specified, the beginTimestamp and endTimestamp options are ignored. The format is \texttt{XXd YYh ZZm}. For example, \texttt{1d 5h 30m} specifies data that is one day, five hours and 30 minutes old. You can specify any combination of day, hour, and minute components in any order.</td>
</tr>
<tr>
<td></td>
<td>• \texttt{partition} — The name of the partition from which the harvested data will be exported.</td>
</tr>
<tr>
<td></td>
<td>• \texttt{dateFormat} — A pattern string conforming to the java.text.SimpleDateFormat syntax in which the timestamp for the harvested data is rendered. The format is \texttt{EEE MM/dd/YY k:mm:ss:SSS z}.</td>
</tr>
</tbody>
</table>

Example

The following example exports the harvested diagnostic data from the WLDF system resource, \texttt{wldf-1} running on the myserver server, and writes the data to the file named \texttt{export.csv}.

\texttt{wls:/mydomain/serverRuntime> exportHarvestedTimeSeriesData('wldf-1')}

Getting diagnostic data from Server myserver.
Opening new capture file export.csv...

3.6.1.13 \texttt{exportHarvestedTimeSeriesDataOffline}

Command Category: Diagnostics Commands

Use with WLST: Offline

Description

Exports the harvested metric data from the diagnostic archive for a WLDF system resource in the offline mode when the server is not running.
See Configuring the Harvester for Metric Collection in *Configuring and Using the Diagnostics Framework for Oracle WebLogic Server*.

In the event of an error, the command returns a *WLSTException*.

**Syntax**

```python
exportHarvestedTimeSeriesDataOffline(wldfSystemResource, [options])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>wldfSystemResource</td>
<td>The name of the WLDF system resource from which the harvested data is exported.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>options</td>
<td>Optional. Comma-separated list of export diagnostic options, specified as name-value pairs. Valid options include:</td>
</tr>
<tr>
<td></td>
<td>• <strong>beginTimestamp</strong> — Beginning timestamp of the harvested data to be retrieved.</td>
</tr>
<tr>
<td></td>
<td>• <strong>endTimestamp</strong> — Ending timestamp of the harvested data to be retrieved.</td>
</tr>
<tr>
<td></td>
<td>• <strong>exportFile</strong> — The path to the file in which the exported data is written in the CSV format.</td>
</tr>
<tr>
<td></td>
<td>• <strong>last</strong> — The timestamp range specification for the last n records. When specified, the beginTimestamp and endTimestamp options are ignored. The format is XXd YYh ZZm. For example, 1d 5h 30m specifies data that is one day, five hours and 30 minutes old. You can specify any combination of day, hour, and minute components in any order.</td>
</tr>
<tr>
<td></td>
<td>• <strong>dateFormat</strong> — A <em>java.text.SimpleDateFormat</em> pattern string in which the timestamp for harvested data is rendered. The format is EEE MM/dd/YY k:mm:ss:SSS z.</td>
</tr>
<tr>
<td></td>
<td>• <strong>storeDir</strong> — The path to the WLDF store directory. The diagnostic data store for a server instance is located in the <code>data/store/diagnostics</code> directory under the server's root directory.</td>
</tr>
</tbody>
</table>

**Example**

The following example exports the harvested diagnostic data from the WLDF system resource, `wldf-1` in offline mode, and writes the data to the file named `export.csv`.

```
wlst:/offline> exportHarvestedTimeSeriesDataOffline(wldfSystemResource='wldf-1')
Opening new capture file export.csv ...
```

### 3.6.1.14 `getAvailableCapturedImages`

**Command Category:** Diagnostics Commands

**Use with WLST:** Online

**Description**

 Returns, as an array of strings, a list of the previously captured diagnostic images that are stored in the image destination directory configured on the server. The default directory is `SERVER\logs\diagnostic_images`.

This command is useful for identifying a diagnostic image capture that you want to download, or for identifying a diagnostic image capture from which you want to download a specific entry.
See Configuring and Capturing Diagnostic Images in *Configuring and Using the Diagnostics Framework for Oracle WebLogic Server*.

In the event of an error, the command returns a WLSTException.

**Syntax**

`getAvailableCapturedImages([options])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>options</code></td>
<td><code>server</code>—(Administration Server only) The server from which to obtain the list of available images. The default value is None.</td>
</tr>
<tr>
<td></td>
<td><code>partition</code>— The name of the partition from which the list of available diagnostic images is obtained.</td>
</tr>
</tbody>
</table>

**Examples**

The following example returns an array of strings named `images`, which contains a list of the diagnostic image capture files available in the image destination directory, and prints the entries contained in the diagnostic image named `diagnostic_image_myserver_2009_06_15_14_58_36.zip`.

```plaintext
wls:/mydomain/serverRuntime>images=getAvailableCapturedImages()
Connecting to http://localhost:7001 with userid weblogic ...
wls:/mydomain/serverRuntime>print images
["diagnostic_image_myserver_2009_06_15_14_58_36.zip"]
```

The following example returns an array of strings named `images`, which contains a list of the diagnostic image capture files available in the image destination directory, for the Managed Server `MS1` and prints the entries contained in the diagnostic images named `diagnostic_image_MS1_2013_09_18_15_59_31.zip` and `diagnostic_image_MS1_2013_09_18_16_02_58.zip`.

```plaintext
wls:/mydomain/serverRuntime>images=getAvailableCapturedImages(Server='MS1')
Connecting to http://localhost:7001 with userid weblogic ...
wls:/mydomain/serverRuntime>print images
['diagnostic_image_MS1_2013_09_18_15_59_31.zip',
'diagnostic_image_MS1_2013_09_18_16_02_58.zip']
```

### 3.6.1.15 `getAvailableDiagnosticDataAccessorNames`

**Command Category:** Diagnostics Commands

**Use with WLST:** Online

**Description**

Gets the logical names of diagnostic data accessor instances currently available on a server or partition, and returns them as an array of string values.

In the event of an error, the command returns a WLSTException.

**Syntax**

`getAvailableDiagnosticDataAccessorNames([options])`
Argument | Definition
--- | ---
**options** | server— The server from which the list of available data accessor names will be retrieved. If not specified, the data will be retrieved from the current server to which WLST is connected. This option is applicable only when WLST is connected to the Administration Server. The default value is None.

partition— The name of the partition from which the list of available data accessor names will be retrieved.

Example

The following example retrieves the diagnostic data accessor names from *myserver* server and returns them as an array of string values.

```bash
wls:/mydomain/serverRuntime>names=getAvailableDiagnosticDataAccessorNames()
Getting diagnostic data from Server myserver.
wls:/mydomain/serverRuntime>print names
array(java.lang.String, ["HarvestedDataArchive", "EventsDataArchive", "DataSourceLog", "DomainLog", "HTTPAccessLog", "ServerLog")
```

3.6.1.16 listDebugPatches

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Lists the active and available debug patches on the specified targets. While connected to the Administration Server, the optional target parameter can be specified to list debug patches on multiple Managed Servers and clusters.

Syntax

```bash
listDebugPatches([target])
```

Argument | Definition
--- | ---
target | Optional. Administration Server only. A comma-separated list of server names, cluster names, or both from which active and available debug patches will be listed. The default value is None. If not specified, a list of debug patches only from the connected server will be displayed.

Example

The following example lists the active and available debug patches on the cluster *myCluster*.

The columns labeled *ms1* and *ms2* list the active and available patches deployed on Managed Servers *ms1* and *ms2*, respectively.

```bash
wls:/dyndebugDomain/serverConfig> listDebugPatches('myCluster')
ms1:
Active Patches:
dyndebug01.jar:system
dyndebug_app01.jar:app=myapp
dyndebug_app02.jar:app=myapp
```
Available Patches:
  dyndebug00.jar
dyndebug01.jar
dyndebug02.jar
dyndebug03.jar
dyndebug04.jar
dyndebug05.jar
dyndebug_app01.jar
dyndebug_app02.jar
dyndebug_app03.jar

ms2:
Active Patches:
  dyndebug01.jar:system
  dyndebug_app01.jar:app=myapp
  dyndebug_app02.jar:app=myapp

Available Patches:
  dyndebug00.jar
dyndebug01.jar
dyndebug02.jar
dyndebug03.jar
dyndebug04.jar
dyndebug05.jar
dyndebug_app01.jar
dyndebug_app02.jar
dyndebug_app03.jar

3.6.1.17 listDebugPatchTasks

Command Category: Diagnostics Commands
Use with WLST: Online

Description
Lists the debug patch (activated or deactivated) tasks from the specified targets. While connected to the Administration Server, the optional target parameter can be specified to list tasks from multiple Managed Servers and clusters. If the target parameter is not specified, tasks from only the connected server will be listed.

Syntax
listDebugPatchTasks([target])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>target</td>
<td>Optional. Administration Server only. A comma-separated list of server names, cluster names, or both from which debug patch tasks will be listed. The default value is None. If not specified, a list of debug patch tasks only from the connected server will be listed.</td>
</tr>
</tbody>
</table>

Example
The following example lists the debug patch tasks from the cluster myCluster.
The columns labeled ms1 and ms2 list the activated and deactivated patch tasks from Managed Servers ms1 and ms2, respectively.
3.6.1.18 listSystemResourceControls

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Lists all the System Resource Control MBeans that are available on the current server or specified targets.

Syntax

listSystemResourceControls([options])

Arguments | Definition
--- | ---
**options** | **Server**—Administration Server only. The target server name from which system resource controls will be listed. The default value is None. This option has been replaced by the **Target** option; all WLST scripts should be updated to use **Target** instead.

**Target**—A comma-separated list of server names, cluster names, or both from which system resource controls will be listed. The default value is None.

Example

The following example lists the diagnostic system resources deployed on myServer server.

- The column labeled **External** identifies whether the diagnostic system resource is defined by an external resource descriptor.
- The column labeled **Enabled** identifies whether the diagnostic resource is activated on the server on which it is configured.

```
wls:/mydomain/serverConfig> listSystemResourceControls('myServer')
```

<table>
<thead>
<tr>
<th>External</th>
<th>Enabled</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>false</td>
<td>false</td>
<td>Module-0</td>
</tr>
<tr>
<td>false</td>
<td>false</td>
<td>allprofiles</td>
</tr>
<tr>
<td>true</td>
<td>true</td>
<td>MyExternal</td>
</tr>
<tr>
<td>false</td>
<td>true</td>
<td>Low</td>
</tr>
<tr>
<td>false</td>
<td>false</td>
<td>FPP-module</td>
</tr>
</tbody>
</table>
3.6.1.19 mergeDiagnosticData

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Merges the set of data files previously generated by the dumpDiagnosticData() command and creates a single merged file in the directory specified by the inputDir argument. The data from all files in the specified directory is consolidated and written in CSV format.

Syntax

mergeDiagnosticData([inputDir], [options])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>inputDir</td>
<td>The name of the source directory that contains the diagnostic data files.</td>
</tr>
<tr>
<td>options</td>
<td>toFile—The name of the target merged data file. The default is merged.csv.</td>
</tr>
</tbody>
</table>

Example

This example merges all the data files in the /home/mydir/data directory into a single data file called mymergedata.csv.

wls:/mydomain/serverRuntime>mergeDiagnosticData('/home/mydir/data', toFile='mymergedata.csv')

3.6.1.20 purgeCapturedImages

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Purges the diagnostic image files on the server as per the age criteria specified from the server's configured image destination directory.

In the event of an error, the command returns a WLSTException.

Syntax

purgeCapturedImages([options])
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>options</td>
<td>server—Administration Server only. Name of the server from which the list of available images will be purged. If not specified, it defaults to None.</td>
</tr>
<tr>
<td></td>
<td>partition—Name of the partition from which the diagnostic images will be purged. If not specified, all images on the server will be purged. If not specified, it defaults to None.</td>
</tr>
<tr>
<td></td>
<td>age—Diagnostic images older than the specified age will be purged. Age is specified in the format Days:Hours:Minutes, where hours and minutes are optional. If the age is not specified, then all the existing image files will be purged.</td>
</tr>
</tbody>
</table>

### Example

The following example purges images which are older than 15 days, 12 hours, 30 minutes from partition, testPartition, from the Managed Server, MS1.

```bash
wls:/mydomain/serverConfig> purgeCapturedImages("15:12:30", server="MS1", partition="testPartition")
```

### 3.6.1.21 purgeDebugPatchTasks

**Command Category:** Diagnostics Commands  
**Use with WLST:** Online  
**Description**  
Purges the debug patch (activated or deactivated) tasks on the specified targets. While connected to the Administration Server, the optional target parameter can be specified to purge tasks from multiple Managed Servers and clusters. If the target parameter is not specified, tasks from only the connected server are purged. Only completed, failed, or cancelled tasks are purged.

**Syntax**

```
purgeDebugPatchTasks([target])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>target</td>
<td>Optional. Administration Server only. A comma-separated list of server names, cluster names, or both from which debug patch tasks are purged. The default value is None. If not specified, a list of debug patch tasks only from the connected server is purged.</td>
</tr>
</tbody>
</table>

### Example

The following example purges debug patch tasks from the cluster myCluster.

```bash
wls:/dyndebugDomain/serverConfig> tasks=purgeDebugPatchTasks(target='myCluster')
```

### 3.6.1.22 showDebugPatchInfo

**Command Category:** Diagnostics Commands
Use with WLST: Online

Description
Displays details about a debug patch on the specified targets. While connected to the Administration Server, the optional target parameter can be specified to display debug patch information from multiple Managed Servers and clusters. The displayed information includes the content of the debug patch along with the content of the README file, if present in the debug patch.

Syntax
showDebugPatchInfo(patch, [target])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>patch</td>
<td>Name of the debug patch for which information is displayed.</td>
</tr>
<tr>
<td>target</td>
<td>Optional. Administration Server only. A comma-separated list of server names, cluster names, or both. If not specified, then the debug patch information only from the connected server will be displayed. The default value is None.</td>
</tr>
</tbody>
</table>

Example
The following example displays information about the dyndebug01.jar debug patch that is deployed on the cluster myCluster.

The columns labeled ms1 and ms2 display information about the dyndebug01.jar debug patch deployed on Managed Servers ms1 and ms2, respectively.

wls:/dyndebugDomain/serverConfig> showDebugPatchInfo('dyndebug01.jar', target='myCluster'
ms1:
dyndebug01.jar:
   dyndebug.Class01
   dyndebug.Class02

Additional Information:
Sat Sep 13 14:24:17 EDT 2014
This is additional information for dyndebug01.

ms2:
dyndebug01.jar:
   dyndebug.Class01
   dyndebug.Class02

Additional Information:
Sat Sep 13 14:24:17 EDT 2014
This is additional information for dyndebug01.)
3.6.1.23 saveDiagnosticImageCaptureFile

Command Category: Diagnostics Commands

Use with WLST: Online

Description

Downloads the specified diagnostic image capture from the server to which WLST is currently connected.

See Configuring and Capturing Diagnostic Images in Configuring and Using the Diagnostics Framework for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

Syntax

```
saveDiagnosticImageCaptureFile(imageName, [Server], [outputFile], [partition])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>imageName</td>
<td>The name of the diagnostic image capture to download.</td>
</tr>
<tr>
<td>options</td>
<td>Server—Administration Server only. Name of the server from which the image is retrieved. Note that while connected to the Administration Server and retrieving an image from a Managed Server, the appropriate Server argument must be specified. If not specified, it defaults to None. outputFile—Local path and file name in which the retrieved diagnostic image capture is to be stored. If not specified, this argument defaults to the value of imageName and the current working directory. If not specified, it defaults to None. partition—The name of the partition from which the image is retrieved.</td>
</tr>
</tbody>
</table>

Example

The following example retrieves the list of the diagnostic image captures that are stored in the image destination directory on the server. It then shows two uses of the saveDiagnosticImageCaptureFile command. In the first use, the first diagnostic image capture in the list is downloaded to the local machine using the default output file name. In the second use, the first diagnostic image capture in the list is downloaded to the local machine in the file mylocalimg.zip.

```
wlst:/mydomain/serverRuntime> images=getAvailableCapturedImages()
Connecting to http://localhost:7001 with userid weblogic ...
wlst:/mydomain/serverConfig> saveDiagnosticImageCaptureFile(images[0])
Retrieving diagnostic_image_myserver_2009_06_25_12_12_50.zip to local path diagnostic_image_myserver_2009_06_25_12_12_50.zip
Connecting to http://localhost:7001 with userid weblogic ...
wlst:/mydomain/serverConfig> saveDiagnosticImageCaptureFile(images[0], 'mylocalimg.zip')
Retrieving diagnostic_image_myserver_2009_06_25_12_12_50.zip to local path mylocalimg.zip
Connecting to http://localhost:7001 with userid weblogic ...
```
3.6.1.24 saveDiagnosticImageCaptureEntryFile

Command Category: Diagnostics Commands

Use with WLST: Online

Description
Downloads a specific entry from the diagnostic image capture that is located on the server to which WLST is currently connected.

See Configuring and Capturing Diagnostic Images in Configuring and Using the Diagnostics Framework for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

Syntax
saveDiagnosticImageCaptureEntryFile(imageName, imageEntryName, [Server], [outputFile], [partition])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>imageName</td>
<td>Name of the diagnostic image capture containing the desired entry.</td>
</tr>
<tr>
<td>imageEntryName</td>
<td>Name of the specific entry to be retrieved from the diagnostic image capture. This can be one of the following:</td>
</tr>
<tr>
<td></td>
<td>image.summary</td>
</tr>
<tr>
<td></td>
<td>JTA.xml</td>
</tr>
<tr>
<td></td>
<td>FlightRecording.jfr</td>
</tr>
<tr>
<td></td>
<td>WatchSource.xml</td>
</tr>
<tr>
<td></td>
<td>configuration.zip</td>
</tr>
<tr>
<td></td>
<td>WORK_MANAGER.txt</td>
</tr>
<tr>
<td></td>
<td>JNDI_IMAGE_SOURCE.xml</td>
</tr>
<tr>
<td></td>
<td>APPLICATION.xml</td>
</tr>
<tr>
<td></td>
<td>InstrumentationImageSource.xml</td>
</tr>
<tr>
<td></td>
<td>SAF.xml</td>
</tr>
<tr>
<td></td>
<td>Logging.txt</td>
</tr>
<tr>
<td></td>
<td>PERSISTENT_STORE.xml</td>
</tr>
<tr>
<td></td>
<td>JDBC.txt</td>
</tr>
<tr>
<td></td>
<td>PathService.xml</td>
</tr>
<tr>
<td></td>
<td>JMS.xml</td>
</tr>
<tr>
<td></td>
<td>Deployment.xml</td>
</tr>
<tr>
<td></td>
<td>JVM.xml</td>
</tr>
<tr>
<td></td>
<td>CONNECTOR.xml</td>
</tr>
<tr>
<td>Server</td>
<td>Administration Server only. Server from which image entry is retrieved. Note that while connected to the Administration Server and retrieving an image entry from a Managed Server, the appropriate Server argument must be specified. If not specified, it defaults to None.</td>
</tr>
<tr>
<td>outputFile</td>
<td>Optional. Local path and file name in which the entry retrieved from the diagnostic image capture is to be stored. If not specified, this argument defaults to the value of imageEntryName and the current working directory. If not specified, it defaults to None.</td>
</tr>
<tr>
<td>partition</td>
<td>Optional. Name of the partition from which image entry is retrieved.</td>
</tr>
</tbody>
</table>
Example

The following example gets the list of diagnostic image captures, then uses the `saveDiagnosticImageCaptureEntryFile` command twice. In the first use, this command retrieves the image summary to the local machine using the default output file name. In the second use, it retrieves the image summary to the local machine in the file `myimage.summary`.

```java
wls:/mydomain/serverRuntime> images=getAvailableCapturedImages()
Connecting to http://localhost:7001 with userid weblogic ...
```
```
wls:/mydomain/serverConfig> saveDiagnosticImageCaptureEntryFile(images[0],
'image.summary')
Retrieving entry image.summary from
diagnostic_image_myserver_2009_06_25_12_12_50.zip to local path image.summary
Connecting to http://localhost:7001 with userid weblogic ...
```
```
wls:/mydomain/serverConfig> saveDiagnosticImageCaptureEntryFile(images[0],
'image.summary', 'myimage.summary')
Retrieving entry image.summary from
diagnostic_image_myserver_2009_06_25_12_12_50.zip to local path myimage.summary
Connecting to http://localhost:7001 with userid weblogic ...
```

The following example gets the list of diagnostic image captures, then invokes the `saveDiagnosticImageCaptureEntryFile` command to retrieve the specified entry to the partition, `p1`.

```java
wls:/partitionDomain/serverConfig> images =
getAvailableCapturedImages(partition='p1')
wls:/partitionDomain/serverConfig> print images
array(java.lang.String,[
'diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_35_01.zip','
diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_50_38.zip'])
wls:/partitionDomain/serverConfig>saveDiagnosticImageCaptureEntryFile(images[0],
'image.summary', 'myimage.summary', partition='p1')
Retrieving entry image.summary from diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_35_01.zip to local path myimage.summary
Saving diagnostic image entry diagnostic_image__p1_e0774122-58e8-421b-963b-
d076096a72cf_partitionAdmin_2015_01_23_12_35_01.zip/image.summary from server
image.summary to  for partition myimage.summary
```

3.7.1 Editing Commands

Use the WLST editing commands to interrogate and edit configuration beans. Table 3-7 lists and summarizes these commands.
Note:

To edit configuration beans, you must be connected to an Administration Server, and you must navigate to the edit tree and start an edit session, as described in `edit` and `startEdit`, respectively.

If you connect to a Managed Server, WLST functionality is limited to browsing the configuration bean hierarchy. While you cannot use WLST to change the values of MBeans on Managed Servers, it is possible to use the Management APIs to do so. Oracle recommends that you change only the values of configuration MBeans on the Administration Server. Changing the values of MBeans on Managed Servers can lead to an inconsistent domain configuration.

See Using WLST Online to Update an Existing Domain in *Understanding the WebLogic Scripting Tool*.

---

Table 3-7  Editing Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>activate</td>
<td>Activate changes saved during the current editing session but not yet deployed.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>assign</td>
<td>Assign resources to one or more destinations.</td>
<td>Offline</td>
</tr>
<tr>
<td>cancelEdit</td>
<td>Cancel an edit session, release the edit lock, and discard all unsaved changes. This operation can be called by any user with administrator privileges, even if the user did not start the edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>create</td>
<td>Create a configuration bean of the specified type for the current bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>createEditSession</td>
<td>Create a new edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>delete</td>
<td>Delete an instance of a configuration for the current configuration bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>deleteFEHost</td>
<td>Delete the Frontend host for a domain.</td>
<td>Offline</td>
</tr>
<tr>
<td>destroyEditSession</td>
<td>Remove the specified edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>enableOverwriteComponentChanges</td>
<td>Overwrite changes to all system components during activation.</td>
<td>Online</td>
</tr>
<tr>
<td>encrypt</td>
<td>Encrypt the specified string.</td>
<td>Online</td>
</tr>
<tr>
<td>get</td>
<td>Return the value of the specified attribute.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>getActivationTask</td>
<td>Return the latest <code>ActivationTask</code> MBean on which a user can get status.</td>
<td>Online</td>
</tr>
<tr>
<td>invoke</td>
<td>Invokes a management operation on the current configuration bean.</td>
<td>Online</td>
</tr>
<tr>
<td>isRestartRequired</td>
<td>Determine whether a server restart is required.</td>
<td>Online</td>
</tr>
</tbody>
</table>
Table 3-7  (Cont.) Editing Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>loadDB</td>
<td>Load SQL files into a database.</td>
<td>Offline</td>
</tr>
<tr>
<td>loadProperties</td>
<td>Load property values from a file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>pullComponentChanges</td>
<td>Pull the configuration changes of a system component from the remote node.</td>
<td>Online</td>
</tr>
<tr>
<td>resolve</td>
<td>Detect any external modification or conflict, and resolve them.</td>
<td>Online</td>
</tr>
<tr>
<td>resync</td>
<td>Resynchronize the configuration files of the specified system component.</td>
<td>Online</td>
</tr>
<tr>
<td>resyncAll</td>
<td>Resynchronize the configuration files of all system components.</td>
<td>Online</td>
</tr>
<tr>
<td>save</td>
<td>Save the edits that have been made but have not yet been saved.</td>
<td>Online</td>
</tr>
<tr>
<td>set</td>
<td>Set the specified attribute value for the current configuration bean.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>setOption</td>
<td>Set options related to a WebLogic domain creation or update.</td>
<td>Offline</td>
</tr>
<tr>
<td>showChanges</td>
<td>Show the changes made to the configuration by the current user during the current edit session.</td>
<td>Online</td>
</tr>
<tr>
<td>showComponentChanges</td>
<td>Show the changes to the configuration of the specified system component on the remote node.</td>
<td>Online</td>
</tr>
<tr>
<td>showEditSession</td>
<td>Show information about the specified edit sessions.</td>
<td>Online</td>
</tr>
<tr>
<td>startEdit</td>
<td>Starts a configuration edit session on behalf of the currently connected user.</td>
<td>Online</td>
</tr>
<tr>
<td>stopEdit</td>
<td>Stop the current edit session, release the edit lock, and discard unsaved changes.</td>
<td>Online</td>
</tr>
<tr>
<td>unassign</td>
<td>Unassign applications or resources from one or more destinations.</td>
<td>Offline</td>
</tr>
<tr>
<td>undo</td>
<td>Revert all unsaved or unactivated edits.</td>
<td>Online</td>
</tr>
<tr>
<td>validate</td>
<td>Validate the changes that have been made but have not yet been saved.</td>
<td>Online</td>
</tr>
</tbody>
</table>

3.7.1.1 activate

Command Category: Editing Commands

Use with WLST: Online

Description

Activates changes saved during the current editing session but not yet deployed. This command prints a message if a server restart is required for the changes that are being activated.

Multiple edit sessions with different names may coexist in the system. While making changes on a named edit session, a user of another edit session can concurrently...
make configuration modifications and activate those changes. To prevent inconsistent modifications, the system checks for any external configuration changes before every activation. Any non-conflicting concurrent modification is automatically merged. In case of an unresolved conflict, the system terminates the activation and returns an error. To list all existing edit sessions, use the `showEditSession()` command. See `showEditSession`. To resolve potential modification conflicts, use the `resolve()` command. See `resolve`.

The activate command returns the latest `ActivationTask MBean`, which reflects the state of changes that a user is currently making or has made recently. You can then invoke methods to get information about the latest Configuration Manager activate task in progress or just completed. In the event of an error, the command returns a `WLSTException`.

Note the following locking mechanism behaviors when using `activate`:

- When running concurrent edit sessions under the same user account using an exclusive lock, activating changes using `activate()` in one session releases the lock for that session, allowing the next session to obtain the lock. Therefore, there is no need to use `cancelEdit()` after `activate()` in the first session to release the lock. Doing so will actually cancel the edit session for the next session in the queue, potentially causing an exception.

- There is only ever one lock in a domain and only a single user can have it at any given time. Unless it is an exclusive lock, that user can acquire a lock from any number of sessions. Each session will add its changes to the existing set of changes. When `activate()` is called in any session, all changes made up to that point by all sessions are activated. Similarly, when `cancelEdit()` is called in any session, all changes made up to that point by all sessions are cancelled, the lock will be released by that user, and an edit lock can then be acquired by another user.

**Syntax**

```
activate([timeout], [block])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>timeout</td>
<td>Optional. Time (in milliseconds) that WLST waits for the activation of configuration changes to complete before canceling the operation. A value of -1 indicates that the operation will not time out. This argument defaults to 300,000 ms (or 5 minutes).</td>
</tr>
<tr>
<td>block</td>
<td>Optional. Boolean value specifying whether WLST should block user interaction until the command completes. This argument defaults to <code>false</code>, indicating that user interaction is not blocked. In this case, WLST returns control to the user after issuing the command and assigns the task MBean associated with the current task to a variable that you can use to check its status. If you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool, <code>block</code> is always set to <code>true</code>.</td>
</tr>
</tbody>
</table>

**Example**

The following example activates the changes made during the current edit session that have been saved to disk, but that have not yet been activated. The WLST waits 200,000 ms for the activation of configuration changes to complete.
3.7.1.2 assign

Command Category: Editing Commands

Use with WLST: Offline

Description

Assigns resources to one or more destinations.

In the event of an error, the command returns a WLSTException.

Syntax

assign(sourceType, sourceName, destinationType, destinationName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>sourceType</td>
<td>Type of configuration bean to be assigned. This value can be set to one of the following values:</td>
</tr>
<tr>
<td></td>
<td>• AppDeployment</td>
</tr>
<tr>
<td></td>
<td>• Library</td>
</tr>
<tr>
<td></td>
<td>• securityType (such as User)</td>
</tr>
<tr>
<td></td>
<td>• Server</td>
</tr>
<tr>
<td></td>
<td>• service (such as JDBCSystemResource)</td>
</tr>
<tr>
<td></td>
<td>• service.SubDeployment, where service specifies the service type of the SubDeployment (such as JMSSystemResource.SubDeployment); you can also specify nested subdeployments (such as AppDeployment.SubDeployment.SubDeployment)</td>
</tr>
<tr>
<td></td>
<td>Guidelines for setting this value are provided below.</td>
</tr>
<tr>
<td>sourceName</td>
<td>Name of the resource to be assigned. Multiple names can be specified, separated by commas, or you can use the wildcard (*) character to specify all resources of the specified type. Specify subdeployments using the following format: service.subDeployment, where service specifies the parent service and subDeployment specifies the name of the subdeployment. For example, myJMSResource.myQueueSubDeployment. You can also specify nested subdeployments, such as MedRecEAR.MedRecAppScopedJMS.MedRecJMSServer.</td>
</tr>
<tr>
<td>destinationType</td>
<td>Type of destination. Guidelines for setting this value are provided below.</td>
</tr>
</tbody>
</table>
### Argument | Definition
--- | ---
destinationName | Name of the destination. Multiple names can be specified, separated by commas. To specify a migratable target, such as when assigning JMS services to a migratable Managed Server, include migratable after the destination name. For example: managed1 (migratable)

Use the following guidelines for setting the sourceType and destinationType:

- **When assigning application deployments**, set the values as follows:
  - sourceType: AppDeployment
  - destinationType: Target

- **When assigning libraries**, set the values as follows:
  - sourceType: Library
  - destinationType: Target

- **When assigning services**, set the values as follows:
  - sourceType: Name of the specific server, such as JDBCSystemResource
  - destinationType: Target

- **When assigning servers to clusters**, set the values as follows:
  - sourceType: Server
  - destinationType: Cluster

- **When assigning subdeployments**, set the values as follows:
  - sourceType: service.SubDeployment, where service specifies the parent of the SubDeployment, such as JMSSystemResource.SubDeployment; you can also specify nested subdeployments (such as AppDeployment.SubDeployment.SubDeployment)
  - destinationType: Target

- **When assigning security types**, set the values as follows:
  - sourceType: Name of the security type, such as User
  - destinationType: Name of the destination security type, such as Group

**Example**

The following examples:

- Assign the servers myServer and myServer2 to the cluster myCluster.
  
  ```
  wls:/offline/mydomain> assign("Server", "myServer,myServer2", "Cluster", "myCluster")
  ```

- Assign all servers to the cluster myCluster.
  
  ```
  wls:/offline/mydomain> assign("Server", ",", "Cluster", "myCluster")
  ```

- Assign the application deployment myAppDeployment to the target server newServer.
  
  ```
  wls:/offline/mydomain> assign("AppDeployment", "myAppDeployment", "Target", "newServer")
  ```
• Assign the user newUser to the group Monitors.
  
  
  wls:/offline/mydomain> assign("User", "newUser", "Group", "Monitors")

• Assign the SubDeployment myQueueSubDeployment, which is a child of the JMS 
  resource myJMSResource, to the target server newServer.
  
  wls:/offline/mydomain> assign('JMSSystemResource.SubDeployment', 
  'myJMSResource.myQueueSubDeployment', 'Target', 'newServer')

• Assign the nested SubDeployment MedRecAppScopedJMS.MedRecJMSServer, which is a 
  child of the AppDeployment MedRecEAR.MedRecAppScopedJMS, to the target server 
  AdminServer.
  
  wls:/offline/mydomain>assign('AppDeployment.SubDeployment.SubDeployment 

• Assign the JMS file store myFileStore to a migratable target Managed Server 
  called managed1.
  
  wls:/offline/mydomain>assign('FileStore', 'myFileStore', 'Target', 
  'managed1 (migratable)'


3.7.1.3 cancelEdit

Command Category: Editing Commands

Use with WLST: Online

Description

Cancels an edit session, releases the edit lock, and discards all unsaved changes.

The user issuing this command does not have to be the current editor; this allows an 
administrator to cancel an edit session, if necessary, to enable other users to start an 
edit session.

In the event of an error, the command returns a WLSTException.

For additional information about cancelEdit, see the activate command.

Syntax

cancelEdit([defaultAnswer])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>defaultAnswer</td>
<td>Optional. Default response, if you would prefer not to be prompted at the command line. Valid values are y and n. This argument defaults to null, and WLST prompts you for a response.</td>
</tr>
</tbody>
</table>

Example

The following example cancels the current editing session. WLST prompts for 
verification before canceling.

wls:/mydomain/edit !> cancelEdit() 
Sure you would like to cancel the edit session? (y/n)y 
Edit session is cancelled successfully 
wls:/mydomain/edit>
3.7.1.4 create

Command Category: Editing Commands

Use with WLST: Online or Offline

Description

Creates a configuration bean of the specified type for the current bean.

The create command returns a stub for the newly created configuration bean. In the event of an error, the command returns a WLSTException.

Note:

Child types must be created under an instance of their parent type. You can only create configuration beans that are children of the current Configuration Management Object (cmo) type. See Changing the Current Management Object in Understanding the WebLogic Scripting Tool.

Please note the following when using the create command with WLST online:

• You must be connected to an Administration Server. You cannot use the create command for runtime MBeans or when WLST is connected to a Managed Server instance.

• You must navigate to the edit configuration MBean hierarchy using the edit command before issuing this command. See edit.

• You can use the create command to create a WebLogic Server configuration MBean that is a child of the current MBean type.

Please note the following when using the create command with WLST offline:

• When using WLST offline, the following characters are not valid in object names: period (.), forward slash (/), or backward slash (/).

To know more about:

• Creating MBeans, see Understanding WebLogic Server MBeans in Developing Custom Management Utilities with JMX.

• Examples of creating specific types of MBean resources, for example, a JMS or JDBC system resource, refer to the WLST sample scripts installed with your product, as described in WLST Sample Scripts in Understanding the WebLogic Scripting Tool.

• MBeans, their child types, attributes, and operations, see MBean Reference for Oracle WebLogic Server.

Syntax

create(name, childMBeanType, [baseProviderType])
### Argument and Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the configuration bean that you are creating.</td>
</tr>
<tr>
<td>childMBeanType</td>
<td>Type of configuration bean that you are creating. You can create instances of any type defined in the <code>config.xml</code> file except custom security types. See MBean Reference for Oracle WebLogic Server.</td>
</tr>
<tr>
<td>baseProviderType</td>
<td>When creating a security provider, specifies the base security provider type, for example, AuthenticationService. This argument defaults to None.</td>
</tr>
</tbody>
</table>

### Example

The following example creates a child configuration bean of type `Server` named `newServer` for the current configuration bean, storing the stub as `server1`:

```wls
server1=create('newServer','Server')
```

Server with name `newServer` has been created successfully.

```wls
server1.getName()
```

The following example creates an authentication provider security provider called `myProvider`:

```wls
cd('SecurityConfiguration/mydomain/Realms/myrealm')
create('myProvider','weblogic.security.providers.authentication.SQLAuthenticator','AuthenticationProvider')
cd('AuthenticationProviders/myProvider')
set('ControlFlag', 'REQUIRED')
```

The following example creates a machine named `highsec_nm` and sets attributes for the associated Node Manager.

```wls
create('highsec_nm', 'Machine')
cd('Machine/highsec_nm/NodeManager/highsec_nm')
set('DebugEnabled', 'true')
set('ListenAddress', 'innes')
set('NMType', 'SSL')
set('ShellCommand', '')
```

### 3.7.1.5 createEditSession

**Command Category:** Editing Commands

**Use with WLST:** Online

**Description**

Creates a new named edit session with the specified name and description. To navigate to the context of the created edit session, use the `edit(editSessionName)` command.

The creation of a new edit session may fail in case a session with the specified name already exists, or if the specified edit session name contains an invalid character.
Syntax

createEditSession(name, [description])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name or identifier of an edit session. It can contain alphanumeric characters, an underscore (_), and a dash (-).</td>
</tr>
<tr>
<td>description</td>
<td>Optional. Description of the edit session for easy identification by a user.</td>
</tr>
</tbody>
</table>

Example

The following example creates an edit session named *mySampleSession* and provides a useful description of the session to be created:

```plaintext
wis:/wis/serverConfig> createEditSession('mySampleSession', 'This session is created to test this command')
```

3.7.1.6 delete

Command Category: Editing Commands

Use with WLST: Online or Offline

Description

Deletes an instance of a configuration bean of the specified type for the current configuration bean.

In the event of an error, the command returns a WLSTException.

> Note:

You can only delete configuration beans that are children of current Configuration Management Object (cmo) type. See Changing the Current Management Object in *Understanding the WebLogic Scripting Tool*.

Syntax

delete(name, childMBeanType)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the child configuration bean to delete.</td>
</tr>
<tr>
<td>childMBeanType</td>
<td>Type of the configuration bean to be deleted. You can delete instances of any type defined in the <em>config.xml</em> file. See <em>MBean Reference for Oracle WebLogic Server</em>.</td>
</tr>
</tbody>
</table>
Example

The following example deletes the configuration bean of type Server named newServer:

```
wlst:/mydomain/edit !> delete('newServer','Server')
Server with name 'newServer' has been deleted successfully.
wlst:/mydomain/edit !>
```

3.7.1.7 deleteFEHost

Command Category: Editing Commands

Use with WLST: Offline

Description

Deletes the plain, SSL and default URL values for the domain Frontend Host from the service table.

Syntax

```
deleteFEHost()
```

Example

The following example deletes the domain Frontend Host URL values for the domain mydomain.

```
wlst:/offline> readDomain("/domains/mydomain")
wlst:/offline> deleteFEHost()
```

3.7.1.8 destroyEditSession

Command Category: Editing Commands

Use with WLST: Online

Description

Removes or destroys the specified edit session.

It is not possible to remove the default (nameless) edit session. An edit session that contains changes that are pending activation or are currently being activated cannot be destroyed by default. You must set the force flag to true if you want to destroy a session with pending activation changes, or if the owner of the specified edit session is different from the current user.

Syntax

```
destroyEditSession(name, [force])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name or identifier of the edit session to be removed.</td>
</tr>
</tbody>
</table>
### Argument  Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>force</td>
<td>Optional. If set to true, then the session with pending activation changes is removed. If set to false, then the session with pending activation changes is preserved, and the command fails. This argument defaults to false.</td>
</tr>
</tbody>
</table>

#### Example

The following example removes or destroys the edit session named four. The force flag is set to true; therefore, if the specified edit session contains pending activation changes, then the session is removed or destroyed.

```
wlswls/serverConfig> destroyEditSession('four', 'true')
```

### 3.7.1.9 enableOverwriteComponentChanges

**Command Category:** Editing Commands  
**Use with WLST:** Online  
**Description**  
Overwrites changes to all system components during activation. This command requires an active edit session.

#### Syntax

```
enableOverwriteComponentChanges()
```

#### Example

The following example overwrites the changes to all system components during activation:

```
startEdit()
```

```
enableOverwriteComponentChanges()
```

### 3.7.1.10 encrypt

**Command Category:** Editing Commands  
**Use with WLST:** Online  
**Description**  
Encrypts the specified string. You can then use the encrypted string in your configuration file or as an argument to a command.

You must invoke this command once for each WebLogic domain in which you want to use the encrypted string. The string can be used only in the WebLogic domain for which it was originally encrypted.

In the event of an error, the command returns a WLSTException.
Syntax

encrypt(obj, [domainDir])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>obj</td>
<td>String that you want to encrypt.</td>
</tr>
<tr>
<td>domainDir</td>
<td>Optional. Absolute path name of a WebLogic domain directory. The encrypted string can be used only by the WebLogic domain that is contained within the specified directory. If you do not specify this argument, the command encrypts the string for use in the WebLogic domain to which WLST is currently connected.</td>
</tr>
</tbody>
</table>

Example

The following example encrypts the specified string using the `security/SerializedSystemIni.dat` file in the specified WebLogic domain directory.

```
wls:/mydomain/serverConfig> es=encrypt('myPassword','c:/Oracle/Middleware/domains/mydomain')
```

3.7.1.11 get

Command Category: Editing Commands

Use with WLST: Online or Offline

Description

Returns the value of the specified attribute. For more information about the MBean attributes that can be viewed, see Oracle WebLogic Server MBean Reference. In the event of an error, the command returns a WLSTException.

**Note:**

You can list all attributes and their current values by entering `ls('a')`. See `ls`.

Alternatively, you can use the `cmo` variable to perform any get method on the current configuration bean. For example:

```java
cmo.getListenPort()
```

See Changing the Current Management Object in Understanding the WebLogic Scripting Tool.

Syntax

get(attrName)
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>attrName</code></td>
<td>Name of the attribute to be displayed. You can specify the full pathname of the attribute. If no pathname is specified, the attribute is displayed for the current configuration object.</td>
</tr>
</tbody>
</table>

### Example

The following example returns the value of the `AdministrationPort` for the current configuration bean.

```sh
wls:/mydomain/serverConfig> get('AdministrationPort')
9002
```

Alternatively, you can use the `cmo` variable:

```sh
cmo.getAdministrationPort()
```

### 3.7.1.12 `getActivationTask`

**Command Category:** Editing Commands  
**Use with WLST:** Online

**Description**

Return the latest `ActivationTask` MBean on which a user can get status. The `ActivationTask` MBean reflects the state of changes that a user has made recently in WLST. You can then invoke methods to get information about the latest Configuration Manager activate task in progress or just completed. In the event of an error, the command returns a `WLSTException`.

**Note:**

If you have activated changes outside of WLST, use the `ConfigurationManagerMBean.getActivationTasks()` method to get access to Activation Tasks created in other tools.

**Syntax**

```sh
getActivationTask()
```

**Example**

The following example returns the latest `ActivationTask` MBean on which a user can get status and stores it within the task variable.

```sh
wls:/mydomain/edit> task=getActivationTask()
wls:/mydomain/edit> if task!=None:
...   task.getState()
... 4
```
3.7.1.13 invoke

Command Category: Editing Commands
Use with WLST: Online

Description
Invokes a management operation on the current configuration bean. Typically, you use this command to invoke operations other than the get and set operations that most WebLogic Server configuration beans provide. The class objects are loaded through the same class loader that is used for loading the configuration bean on which the action is invoked.

You cannot use the invoke command when WLST is connected to a Managed Server instance.

If successful, the invoke command returns the object that is returned by the operation invoked. In the event of an error, the command returns a WLSTException.

Syntax
invoke(methodName, parameters, signatures)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>methodName</td>
<td>Name of the method to be invoked.</td>
</tr>
<tr>
<td>parameters</td>
<td>An array of parameters to be passed to the method call.</td>
</tr>
<tr>
<td>signatures</td>
<td>An array containing the signature of the action.</td>
</tr>
</tbody>
</table>

Example
The following example invokes the lookupServer method on the current configuration bean.

```javascript
wls:/mydomain/config> objs = jarray.array([java.lang.String("oamserver")], java.lang.Object)
wls:/mydomain/edit> strs = jarray.array(["java.lang.String"], java.lang.String)
wls:/mydomain/edit> invoke('lookupServer', objs, strs)
true
wls:/mydomain/edit>
```

3.7.1.14 isRestartRequired

Command Category: Editing Commands
Use with WLST: Online

Description
Determines whether a server restart is required.
If you invoke this command while an edit session is in progress, the response is based on the edits that are currently in progress. If you specify the name of an attribute, WLST indicates whether a server restart is required for that attribute only.

In the event of an error, the command returns a WLSTException.

Syntax

isRestartRequired([attributeName])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>attributeName</td>
<td>Optional. Name of a specific attribute for which you want to check if a server restart is required.</td>
</tr>
</tbody>
</table>

Example

The following example specifies whether a server restart is required for all changes made during the current WLST session.

```
wlsh:/mydomain/edit !> isRestartRequired()
Server re-start is REQUIRED for the set of changes in progress.
```

The following attribute(s) have been changed on MBeans that require server re-start.

MBean Changed : mydomain:Name=mydomain,Type=Domain
Attributes changed : AutoConfigurationSaveEnabled

The following example specifies whether a server restart is required if you edit the ConsoleEnabled attribute.

```
wls:/mydomain/edit !> isRestartRequired("ConsoleEnabled")
Server re-start is REQUIRED if you change the attribute ConsoleEnabled wls://mydomain/edit !>
```

3.7.15 loadDB

Command Category: Editing Commands

Use with WLST: Offline

Description

Loads SQL files into a database.

The loadDB command loads the SQL files from a template file. This command can only be issued after a domain template or extension template has been loaded into memory (see readDomain and readTemplate).

Before executing this command, ensure that the following conditions are true:

- The appropriate database is running.
- SQL files exist for the specified database and version.

To verify that the appropriate SQL files exist, open the domain template and locate the relevant SQL file list, jdbc.index, in the _jdbc_ directory. For example, for Oracle 9i, the SQL file list is located at _jdbc_\Oracle\9i\jdbc.index.

The command fails if the above conditions are not met.

In the event of an error, the command returns a WLSTException.
Syntax

loadDB(dbVersion, datasourceName, dbCategory)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>dbVersion</td>
<td>Version of the database for which the SQL files are intended to be used.</td>
</tr>
<tr>
<td>datasourceName</td>
<td>Name of the JDBC data source to be used to load SQL files.</td>
</tr>
<tr>
<td>dbCategory</td>
<td>Optional. Database category associated with the specified data source. See Files Typically Included in a Template in the Oracle WebLogic Server Domain Template Reference.</td>
</tr>
</tbody>
</table>

Example

The following example loads SQL files related to Drop/Create P13N Database Objects intended for version 5.1 of the database, using the p13nDataSource JDBC data source.

```
wlst:offline/mydomain> loadDB('5.1', 'p13nDataSource', 'Drop/Create P13N Database Objects')
```

3.7.1.16 loadProperties

Command Category: Editing Commands

Use with WLST: Online and Offline

Description

Loads property values from a file and makes them available in the WLST session.

This command cannot be used when you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool.

In the event of an error, the command returns a WLSTException.

Syntax

loadProperties(fileName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>fileName</td>
<td>Properties file pathname.</td>
</tr>
</tbody>
</table>

Example

This example gets and sets the properties file values.

```
wlst:mydomain/serverConfig> loadProperties('c:/temp/myLoad.properties')
```
3.7.1.17 pullComponentChanges

Command Category: Editing Commands
Use with WLST: Online

Description
Pulls the configuration changes of a system component from the remote node to the current edit session. This command requires an active edit session.

Syntax
pullComponentChanges(compName)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>compName</td>
<td>Name of the system component for which to pull the configuration changes.</td>
</tr>
</tbody>
</table>

Example
The following example starts an edit session, and pulls the configuration changes of the system component, otd_test_varunam.in.oracle.com, from the remote node to the current edit session. It then activates the changes.

startEdit()
pullComponentChanges('otd_test_varunam.in.oracle.com')
activate()

3.7.1.18 resolve

Command Category: Editing Commands
Use with WLST: Online

Description
Detects conflicts between changes made as part of the current edit session and changes that are activated externally. In case one or more conflicts are found, the stopOnConflicts parameter determines whether the conflicts are either automatically resolved using a set of predefined rules, or the list of conflicts is displayed and the command execution is terminated. This command works with the current edit session. In order to use this command, the user must obtain the edit session lock.

Once all conflicts are resolved, the command updates the current edit session with any non-conflicting changes made externally since the session creation or since the last
successful call to `resolve()`. The `resolve()` command only updates the content of the current edit session. Any pending changes in the edit session are not activated.

The `resolve()` command always displays the list of found conflicts, description of resolve operation, and the list of all external changes applied to this edit session as part of the `resolve()` invocation.

**Syntax**

```plaintext
resolve([stopOnConflicts])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>stopOnConflicts</code></td>
<td>Optional. A boolean flag that determines the resolution in case one or more conflicts are detected. If set to <code>false</code>, the command tries to resolve the conflicts automatically. If set to <code>true</code>, the command lists all conflicts found and terminates the command execution. This argument defaults to <code>false</code>.</td>
</tr>
</tbody>
</table>

**Example**

The following example calls the `resolve()` command, which in turn lists a conflict that is found. This command provides a description of the conflict and also of the `resolve` operation:

```plaintext
wls:/wls/edit(one)/Servers/s1 !> resolve()
1 conflict:
[1] [wls]/Servers[s1] - A conflict in a property ListenPort has been detected.
Original value: 7001
Edit value: 8111
Runtime value: 8222
Description of resolve operation:
The changes made to ListenPort by the current edit session will override the ones present in the current runtime configuration.
Patch:
No difference.
```

### 3.7.1.19 resync

**Command Category:** Editing Commands  
**Use with WLST:** Online  
**Description**

Resynchronizes the configuration files of the specified system component from the Administration Server to the corresponding remote node. This command must be invoked outside the edit session.

**Note:**

This command automatically starts an edit session to prevent configuration changes to occur during the resynchronization.
### Syntax

```python
resync(compName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>compName</td>
<td>Name of the system component for which to resynchronize the configuration files.</td>
</tr>
</tbody>
</table>

### Example

The following example shows the configuration file changes for the system component, `otd_test_varunam.in.oracle.com`. It then resynchronizes the configuration files for this system component.

```bash
showComponentChanges('otd_test_varunam.in.oracle.com')
add OTD/test/config/bar.conf 1970.01.01-05:30:00 2014.11.07-17:35:15
edit OTD/test/config/proxyvs.obj.conf 2014.11.07-17:36:49 1970.01.01-05:29:59
edit OTD/test/config/server.xml 2014.11.07-17:36:49 2014.11.07-17:37:22
remove OTD/test/config/test-obj.conf 2014.11.07-17:36:49 1970.01.01-05:30:00
resync('otd_test_varunam.in.oracle.com')
showComponentChanges('otd_test_varunam.in.oracle.com')
```

Component `otd_test_varunam.in.oracle.com` changes on machine `varunam.in.oracle.com`:
- no change found.

### 3.7.1.20 resyncAll

**Command Category:** Editing Commands  
**Use with WLST:** Online  
**Description**

Resynchronizes the configuration files of all system components.

| Syntax | `resyncAll()` |

### Example

The following example shows the configuration changes for all system components. It then resynchronizes the configuration files for all system components.

```bash
>showComponentChanges()
component otd_test_varunam.in.oracle.com changes on machine varunam.in.oracle.com:
add OTD/test/config/baz.conf 1970.01.01-05:30:00 2014.11.07-17:42:57
component otd_origin-server-1_varunam.in.oracle.com changes on machine varunam.in.oracle.com:
add OTD/origin-server-1/config/bar.conf 1970.01.01-05:30:00 2014.11.07-17:43:34
resyncAll()
showComponentChanges()
```

Component `otd_test_varunam.in.oracle.com` changes on machine `varunam.in.oracle.com`:
- no change found.
3.7.1.21 save

Command Category: Editing Commands
Use with WLST: Online

Description
Saves the edits that have been made but have not yet been saved. This command is only valid when an edit session is in progress. For information about starting an edit session, see startEdit.

In the event of an error, the command returns a WLSTException.

Syntax
save()

Example
The following example saves the edits that have not yet been saved to disk.

wls:/mydomain/edit !> save()
Saving all your changes ...  
Saved all your changes successfully.
wls:/mydomain/edit !>

3.7.1.22 set

Command Category: Editing Commands
Use with WLST: Online or Offline

Description
Sets the value of a specified attribute in the current management object. When using WLST offline, this command writes the attribute value to the domain configuration files. When using WLST online, this command sets the value of an MBean attribute. Online changes are written to the domain configuration file when you activate your edits.

In the event of an error, the command returns a WLSTException.

For information about setting encrypted attributes (all encrypted attributes have names that end with Encrypted), see Writing and Reading Encrypted Configuration Values in Understanding the WebLogic Scripting Tool.

Note the following when using WLST online:

- You must be in an edit session to use this command. See startEdit.
- You cannot use this command when WLST is connected to a Managed Server.
- As an alternative to this command, you can use the cmo variable with the following syntax:

```java
cmo.setAttrName(value)
```

For example, instead of using `set('ListenPort', 7011)`, you can use:
cmo.setListenPort(7011)

See Changing the Current Management Object in *Understanding the WebLogic Scripting Tool*.

**Syntax**

set(attrName, value)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>attrName</td>
<td>Name of the attribute to be set.</td>
</tr>
<tr>
<td>value</td>
<td>Value of the attribute to be set.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> This value should not be enclosed in single or double quotes. See</td>
</tr>
<tr>
<td></td>
<td>the examples.</td>
</tr>
</tbody>
</table>

**Example**

The following example sets the `ArchiveConfigurationCount` attribute of `DomainMBean` to 10:

`wls:/mydomain/serverConfig> set('ArchiveConfigurationCount', 10)`

The following example sets the long value of the `T1TimerInterval` attribute of a custom Mbean to 123:

`wls:/mydomain/serverConfig> set('T1TimerInterval', Long(123))`

The following example sets the boolean value of the `MyBooleanAttribute` attribute of a custom Mbean to `true`:

`wls:/mydomain/serverConfig> set('MyBooleanAttribute', Boolean(true))`

### 3.7.1.23 setOption

**Command Category:** Editing Commands

Use with WLST: Offline

**Description**

Sets options related to a WebLogic domain creation or update. In the event of an error, the command returns a `WLSTException`.

**Syntax**

setOption(optionName, optionValue)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>optionName</td>
<td>Name of the option to set. See the following table for possible values.</td>
</tr>
<tr>
<td>optionValue</td>
<td>Value for the option.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Boolean values can be specified as a String (<code>true</code>, <code>false</code>) or integer (<code>0</code>, <code>1</code>).</td>
</tr>
<tr>
<td>Option Name</td>
<td>Used for</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>DomainName</td>
<td>domain creation</td>
</tr>
<tr>
<td>JavaHome</td>
<td>domain creation</td>
</tr>
<tr>
<td>NodeManagerType</td>
<td>domain creation</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>NodeManagerHome</td>
<td>domain creation</td>
</tr>
<tr>
<td>OldNodeManagerHome</td>
<td>domain reconfiguration</td>
</tr>
<tr>
<td>NodeManagerUpgradeType</td>
<td>domain reconfiguration</td>
</tr>
</tbody>
</table>
### Option Name

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Used for</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NodeManagerUpgradeOverwriteDefault</td>
<td>domain reconfiguration</td>
<td>A boolean flag that is used to overwrite the Oracle-recommended default values for mandatory Node Manager configuration. This option is used only when Node Manager upgrade type is Migrate. The default value is false.</td>
</tr>
<tr>
<td>OverwriteDomain</td>
<td>domain creation</td>
<td>Boolean value specifying whether to allow an existing WebLogic domain to be overwritten. This option defaults to false.</td>
</tr>
<tr>
<td>ServerStartMode</td>
<td>domain creation</td>
<td>Mode to use when starting the server for the newly created WebLogic domain. This value can be dev (development), prod (production), or secure (secured production). This option defaults to dev.</td>
</tr>
<tr>
<td>AllowCasualUpdate</td>
<td>domain upgrade</td>
<td>Boolean value specifying whether to allow a WebLogic domain to be updated without adding an extension template. This option defaults to true.</td>
</tr>
<tr>
<td>ReplaceDuplicates</td>
<td>domain upgrade</td>
<td>Boolean value specifying whether to keep original configuration elements in the WebLogic domain or replace the elements with corresponding ones from an extension template when there is a conflict. This option defaults to true.</td>
</tr>
<tr>
<td>AppDir</td>
<td>domain creation and domain upgrade</td>
<td>Application directory to be used when a separate directory is desired for applications, as specified by the template. This option defaults to $WL_HOME/user_projects/applications/domainname, where $WL_HOME specifies the WebLogic Server home directory and domainname specifies the name of the WebLogic domain.</td>
</tr>
<tr>
<td>AutoAdjustSubDeployment Target</td>
<td>domain creation and domain upgrade</td>
<td>Boolean value specifying whether WLST automatically adjusts targets for the subdeployments of AppDeployments. This option defaults to true. To deactivate this feature, set the option to false and explicitly set the targeting for AppDeployment subdeployments before writing or updating the WebLogic domain or domain template.</td>
</tr>
<tr>
<td>AutoDeploy</td>
<td>domain creation and domain upgrade</td>
<td>Boolean value specifying whether to activate auto deployment when a cluster or multiple Managed Servers are created. This option defaults to true. To deactivate this feature, set the option to false on the first line of your script.</td>
</tr>
</tbody>
</table>

### Example

The following example sets the `AutoDeploy` option to false:

```bash
wls://offline> setOption('AutoDeploy', 'false')
```

### 3.7.1.24 showChanges

**Command Category:** Editing Commands  
**Use with WLST:** Online  
**Description:**  
Shows the changes made to the configuration by the current user during the current edit session. In the event of an error, the command returns a WLSTException.  
**Syntax:**  
```
showChanges([onlyInMemory])
```
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>onlyInMemory</td>
<td>Optional. Boolean value specifying whether to display only the changes that have not yet been saved. This argument defaults to false, indicating that all changes that have been made from the start of the session are displayed.</td>
</tr>
</tbody>
</table>

### Example

The following example shows all of the changes made by the current user to the configuration since the start of the current edit session.

```sh
wls:/mydomain/edit !> showChanges()
Changes that are in memory and saved to disc but not yet activated are:

MBean Changed : com.bea:Name=basicWLSDomain,Type=Domain
Operation Invoked : add
Attribute Modified : Machines
Attributes Old Value : null
Attributes New Value : Mach1
Server Restart Required : false

MBean Changed : com.bea:Name=basicWLSDomain,Type=Domain
Operation Invoked : add
Attribute Modified : Servers
Attributes Old Value : null
Attributes New Value : myserver
Server Restart Required : false
```

### 3.7.1.25 showComponentChanges

**Command Category:** Editing Commands

**Use with WLST:** Online

**Description**

Shows changes to the configuration of the specified system component on the remote node in comparison to the Administration Server.

**Syntax**

```
showComponentChanges([compName])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>compName</td>
<td>Optional. Name of the system component for which to compare the configuration changes. If not specified, then the comparison is performed for all system components in the domain.</td>
</tr>
</tbody>
</table>

**Example**

The following example shows configuration changes for all system components in the current domain.

```
showComponentChanges()
component otd_test_varunam.in.oracle.com changes on machine varunam.in.oracle.com:
```
The following example shows configuration changes for the system component, otd_test_varunam.in.oracle.com.

```
showComponentChanges('otd_test_varunam.in.oracle.com')
add OTD/test/config/foo.conf 1970.01.01-05:30:00 2014.11.07-17:06:30
edit OTD/test/config/server.xml 2014.11.06-19:48:15 2014.11.07-17:06:08
edit OTD/test/config/test-obj.conf 2014.11.06-16:59:32 1970.01.01-05:29:59
remove OTD/test/config/obj.conf 2014.11.06-19:48:15 1970.01.01-05:30:00
```

### 3.7.1.26 showEditSession

**Command Category:** Editing Commands

**Use with WLST:** Online

**Description**

Shows information about the specified edit sessions. If this command is invoked without specifying the name of the edit session, a list of all the existing edit sessions will be displayed. In case the name of a single edit session is specified as a parameter, detailed information about that edit session will be displayed.

The details about an edit session includes the following information:

- **Creator** - The name of the user who created the edit session
- **Editor** - The name of the user who currently owns the edit session lock
- **Resolve recommended** - If set to yes, this flag indicates that configuration changes in another edit session have been activated and the configuration snapshot in this edit session can be deprecated as such. Use resolve() command to update the content of the session to match the latest runtime configuration or to resolve any modification conflicts or both.
- **Contains unactivated changes** - provides information whether the specified edit session contains any configuration changes that have not been activated yet.

To access detailed information about the default edit session, it is necessary to specify the input parameter as `default`.

**Syntax**

```
showEditSession([name])
```

**Argument** | **Definition**
--- | ---
name | Optional. Name or identifier of the edit session about which to display detailed information. If this argument is not specified, then a list of all existing edit sessions is displayed.
Example

The following example invokes the `showEditSession` command without specifying the argument. In this example, a list of all edit sessions is displayed.

```
wls:/wls/edit> showEditSession()
List of named edit sessions [for details use showEditSession(name)]:
default
    one
    two
    three
```

In the following example, `two` is the name of an edit session which is passed as an argument. As a result, detailed information about the specified edit session is displayed.

```
wls:/wls/edit> showEditSession('two')
two
    Creator: wls
    Editor (lock owner): wls
    Resolve recommended: No
    Contains unactivated changes: Yes
```

3.7.1.27 startEdit

Command Category: Editing Commands

Use with WLST: Online

Description

Starts a configuration edit session on behalf of the currently connected user. You must navigate to the edit configuration MBean hierarchy using the `edit` command before issuing this command. See `edit`.

This command must be called prior to invoking any command to modify the WebLogic domain configuration.

In the event of an error, the command returns a `WLSTException`.

**Note:**

WLST automatically starts an edit session if it detects that there is an edit session that is already in progress by the same user, which may have been started via the WebLogic Server Administration Console or another WLST session.

Syntax

```
startEdit([waitTimeInMillis], [timeoutInMillis], [exclusive])
```
Argument | Definition
--- | ---
waitTimeInMillis | Optional. Time (in milliseconds) that WLST waits until it gets a lock, in the event that another user has a lock. This argument defaults to 0 ms.
timeOutInMillis | Optional. Timeout (in milliseconds) that WLST waits to release the edit lock. This argument defaults to -1 ms, indicating that this edit session never expires.
exclusive | Optional. Specifies whether the edit session should be an exclusive session. If set to true, if the same owner enters the startEdit command, WLST waits until the current edit session lock is released before starting the new edit session. The exclusive lock times out according to the time specified in timeoutInMillis. This argument defaults to false.

Example

The following example starts an edit session with a 1-minute timeout waiting for a lock and a 2-minute timeout waiting to release the edit lock:

```
   wls:/mydomain/edit> startEdit(60000, 120000)
   Starting an edit session ...
   Started edit session, please be sure to save and activate your changes once you are done.
   wls:/mydomain/edit !>
```

3.7.1.28 stopEdit

Command Category: Editing Commands

Use with WLST: Online

Description

Stops the current edit session, releases the edit lock, and discards unsaved changes.

In the event of an error, the command returns a WLSTException.

Note:

stopEdit() cannot cancel the edit session of a different user, nor can it stop the exclusive edit sessions acquired via other sessions. stopEdit() can only stop the non-exclusive edit sessions for the same user.

Syntax

stopEdit([defaultAnswer])

Argument | Definition
--- | ---
defaultAnswer | Optional. Default response, if you would prefer not to be prompted at the command line. Valid values are y and n. This argument defaults to null, and WLST prompts you for a response.
**Example**

The following example stops the current editing session. WLST prompts for verification before canceling.

```plaintext
wls:/mydomain/edit !> stopEdit()
Sure you would like to stop your edit session? (y/n)
y
Edit session has been stopped successfully.
wls:/mydomain/edit>
```

### 3.7.1.29 unassign

**Command Category:** Editing Commands

**Use with WLST:** Offline

**Description**

Unassign applications or resources from one or more destinations.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
unassign(sourceType, sourceName, destinationType, destinationName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sourceType</code></td>
<td>Type of configuration bean to be unassigned. This value can be set to one of the following values:</td>
</tr>
<tr>
<td></td>
<td>• AppDeployment</td>
</tr>
<tr>
<td></td>
<td>• Library</td>
</tr>
<tr>
<td></td>
<td>• securityType (such as User)</td>
</tr>
<tr>
<td></td>
<td>• Server</td>
</tr>
<tr>
<td></td>
<td>• service (such as JDBCSystemResource)</td>
</tr>
<tr>
<td></td>
<td>• service.SubDeployment, where service specifies the service type of the SubDeployment (such as JMSSystemResource.SubDeployment); you can also specify nested subdeployments (such as AppDeployment.SubDeployment.SubDeployment)</td>
</tr>
<tr>
<td><code>sourceName</code></td>
<td>Name of the application or resource to be unassigned. Multiple names can be specified, separated by commas, or you can use the wildcard (*) character to specify all resources of the specified type. Specify subdeployments using the following format: service.subDeployment, where service specifies the parent service and subDeployment specifies the name of the subdeployment. For example, myJMSResource.myQueueSubDeployment. You can also specify nested subdeployments, such as MedRecEAR.MedRecAppScopedJMS.MedRecJMServer.</td>
</tr>
<tr>
<td><code>destinationType</code></td>
<td>Type of destination. Guidelines for setting this value are provided below.</td>
</tr>
<tr>
<td><code>destinationName</code></td>
<td>Name of the destination. Multiple names can be specified, separated by commas.</td>
</tr>
</tbody>
</table>
Use the following guidelines for setting the `sourceType` and `destinationType`:

- **When unassigning application deployments**, set the values as follows:
  - `sourceType`: AppDeployment
  - `destinationType`: Target

- **When unassigning libraries**, set the values as follows:
  - `sourceType`: Library
  - `destinationType`: Target

- **When unassigning security types**, set the values as follows:
  - `sourceType`: Name of the security type, such as User
  - `destinationType`: Name of the destination security type, such as Group

- **When unassigning servers from clusters**, set the values as follows:
  - `sourceType`: Server
  - `destinationType`: Cluster

- **When unassigning services**, set the values as follows:
  - `sourceType`: Name of the specific server, such as JDBCSystemResource
  - `destinationType`: Target

- **When unassigning subdeployments**, set the values as follows:
  - `sourceType`: service.SubDeployment, where `service` specifies the parent of the SubDeployment, such as JMSSystemResource.SubDeployment; you can also specify nested subdeployments (such as AppDeployment.SubDeployment.SubDeployment)
  - `destinationType`: Target

**Example**

The following examples:

- **Unassign the servers** `myServer` and `myServer2` from the cluster `myCluster`.
  ```
  wls:/offline/medrec> unassign("Server", "myServer,myServer2", "Cluster", "myCluster")
  ```

- **Unassign all servers from the cluster** `myCluster`.
  ```
  wls:/offline/mydomain> unassign("Server", "+", "Cluster", "myCluster")
  ```

- **Unassign the user** `newUser` from the group `Monitors`.
  ```
  wls:/offline/medrec> unassign("User", "newUser", "Group", "Monitors")
  ```

- **Unassign the application deployment** `myAppDeployment` from the target server `newServer`.
  ```
  wls:/offline/mydomain> unassign("AppDeployment", "myAppDeployment", "Target", "newServer")
  ```

- **Unassign the nested SubDeployment** `MedRecAppScopedJMS.MedRecJMSServer`, which is a child of the AppDeployment `AppDeployment`, from the target server `AdminServer`.
  ```
  ```
3.7.1.30 undo

Command Category: Editing Commands
Use with WLST: Online

Description
Reverts all unsaved or unactivated edits.

You specify whether to revert all unactivated edits (including those that have been saved to disk), or all edits made since the last save operation. This command does not release the edit session.

In the event of an error, the command returns a WLSTException.

Syntax
undo([unactivatedChanges], [defaultAnswer])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>unactivatedChanges</td>
<td>Optional. Boolean value specifying whether to undo all unactivated changes, including edits that have been saved to disk. This argument defaults to false, indicating that all edits since the last save operation are reverted.</td>
</tr>
<tr>
<td>defaultAnswer</td>
<td>Optional. Default response, if you would prefer not to be prompted at the command line. Valid values are y and n. This argument defaults to null, and WLST prompts you for a response.</td>
</tr>
</tbody>
</table>

Example
The following example reverts all changes since the last save operation. WLST prompts for verification before reverting.

wls:/mydomain/edit !> undo()
Sure you would like to undo your changes? (y/n)
y
Discarded your in-memory changes successfully.
wls:/mydomain/edit>

The following example reverts all unactivated changes. WLST prompts for verification before reverting.

wls:/mydomain/edit !> undo('true')
Sure you would like to undo your changes? (y/n)
y
Discarded all your changes successfully.
wls:/mydomain/edit>

3.7.1.31 validate

Command Category: Editing Commands
Use with WLST: Online
Description
Validates the changes that have been made but have not yet been saved. This command enables you to verify that all changes are valid before saving them. In the event of an error, the command returns a WLSTException.

Syntax
validate()

Example
The following example validates all changes that have been made but have not yet been saved.

wls:/mydomain/edit !> validate()
Validating changes ...
Validated the changes successfully

3.8.1 Information Commands

Use the WLST information commands to interrogate domains, servers, and variables, and provide configuration bean, runtime bean, and WLST-related information. Table 3-8 lists and summarizes these commands.

Table 3-8    Information Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>addListener</td>
<td>Add a JMX listener to the specified MBean.</td>
<td>Online</td>
</tr>
<tr>
<td>configToScript</td>
<td>Convert an existing server configuration (config directory) to an executable WLST script</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>dumpStack</td>
<td>Display stack trace from the last exception that occurred while performing a WLST action, and reset the stack trace.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>dumpVariables</td>
<td>Display all variables used by WLST, including their name and value.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>find</td>
<td>Find MBeans and attributes in the current hierarchy.</td>
<td>Online</td>
</tr>
<tr>
<td>getConfigManager</td>
<td>Return the latest ConfigurationManagerBean MBean which manages the change process.</td>
<td>Online</td>
</tr>
<tr>
<td>getMBean</td>
<td>Return the MBean by browsing to the specified path.</td>
<td>Online</td>
</tr>
<tr>
<td>getMBI</td>
<td>Return the MBeanInfo for the specified MBeanType or the cmo variable.</td>
<td>Online</td>
</tr>
<tr>
<td>getPath</td>
<td>Return the MBean path for the specified MBean instance.</td>
<td>Online</td>
</tr>
<tr>
<td>listChildTypes</td>
<td>List all the children MBeans that can be created or deleted for the cmo type.</td>
<td>Online</td>
</tr>
<tr>
<td>lookup</td>
<td>Look up the specified MBean.</td>
<td>Online</td>
</tr>
<tr>
<td>ls</td>
<td>List all child beans and/or attributes for the current configuration or runtime bean.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
Table 3-8  (Cont.) Information Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>man</td>
<td>Display help from MBeanInfo for the current MBean or its specified attribute.</td>
<td>Online</td>
</tr>
<tr>
<td>redirect</td>
<td>Redirect WLST output to the specified filename.</td>
<td>Online</td>
</tr>
<tr>
<td>removeListener</td>
<td>Remove a listener that was previously defined.</td>
<td>Online</td>
</tr>
<tr>
<td>setShowLSResult</td>
<td>Specify whether ls() should log its output to stdout.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>showListeners</td>
<td>Show all listeners that are currently defined.</td>
<td>Online</td>
</tr>
<tr>
<td>startRecording</td>
<td>Record all user interactions with WLST; useful for capturing commands to replay.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>state</td>
<td>Returns a map of servers or clusters and their state using Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>stopRecording</td>
<td>Stop recording WLST commands.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>stopRedirect</td>
<td>Stop redirection of WLST output to a file.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>storeUserConfig</td>
<td>Create a user configuration file and an associated key file.</td>
<td>Online</td>
</tr>
<tr>
<td>threadDump</td>
<td>Display a thread dump for the specified server.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>viewMBean</td>
<td>Display information about an MBean, such as the attribute names and values, and operations.</td>
<td>Online</td>
</tr>
<tr>
<td>writeIniFile</td>
<td>Convert WLST definitions and method declarations to a Python (.py) file.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

3.8.1.1 addListener

Command Category: Information Commands

Use with WLST: Online

Description

Adds a JMX listener to the specified MBean. Any changes made to the MBean are reported to standard out and/or are saved to the specified configuration file.

In the event of an error, the command returns a WLSTException.

Syntax

```
addListener(mbean, [attributeNames], [logFile], [listenerName])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mbean</td>
<td>Name of the MBean or MBean object to listen on.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>attributeNames</td>
<td>Optional. Comma-separated list of all attribute names on which you would like to add a JMX listener. This argument defaults to null, and adds a JMX listener for all attributes.</td>
</tr>
<tr>
<td>logFile</td>
<td>Optional. Name and location of the log file to which you want to write listener information. This argument defaults to standard out.</td>
</tr>
<tr>
<td>listenerName</td>
<td>Optional. Name of the JMX listener. This argument defaults to a WLST-generated name.</td>
</tr>
</tbody>
</table>

**Example**

The following example defines a JMX listener on the `cmo` MBean for the `Notes` and `ArchiveConfigurationCount` attributes. The listener is named `domain-listener` and is stored in `./listeners/domain.log`.

```
wlst:/mydomain/serverConfig> addListener(cmo, "Notes,ArchiveConfigurationCount", 
"./listeners/domain.log", "domain-listener")
```

### 3.8.1.2 configToScript

**Command Category:** Information Commands  
**Use with WLST:** Online or Offline

Converts an existing server configuration (config directory) to an executable WLST script. You can use the resulting script to re-create the resources on other servers.

**Note:**

If you use `configToScript` for a domain that contains other Fusion Middleware components in addition to WebLogic Server, be aware that `configToScript` does not include the configuration for those components in the resulting WLST script. Only the WebLogic Server configuration is included in the script.

The `configToScript` command is deprecated and will be removed in a future release of WebLogic Server. Oracle strongly recommends that you use `pack` and `unpack` to create the domain on remote servers. See Overview of the Pack and Unpack Commands in Creating Templates and Domains Using the Pack and Unpack Commands.

The `configToScript` command creates the following files:

- A WLST script that contains the commands needed to recreate the configuration.
- A properties file that contains domain-specific values. You can update the values in this file to create new domains that are similar to the original configuration.
- A user configuration file and an associated key file to store encrypted attributes. The user configuration file contains the encrypted information. The key file contains a secret key that is used to encrypt and decrypt the encrypted information.
When you run the generated script:

- If a server is currently running, WLST will try to connect using the values in the properties file and then run the script commands to create the server resources.
- If no server is currently running, WLST will start a server with the values in the properties file, run the script commands to create the server resources, and shutdown the server. This may cause WLST to exit from the command shell.

In the event of an error, the command returns a WLSTException.

Syntax

```
configToScript([configPath], [pyPath], [overwrite], [propertiesFile], [createDeploymentScript])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>configPath</td>
<td>Optional. Path to the domain directory that contains the configuration that you want to convert. This argument defaults to the directory from which you start WLST (./).</td>
</tr>
<tr>
<td>pyPath</td>
<td>Optional. Path and filename to which you want to write the converted WLST script. This argument defaults to ./config/config.py.</td>
</tr>
<tr>
<td>overwrite</td>
<td>Optional. Boolean value specifying whether the script file should be overwritten if it already exists. This argument defaults to true, indicating that the script file is overwritten.</td>
</tr>
<tr>
<td>propertiesFile</td>
<td>Optional. Path to the directory in which you want WLST to write the properties files. This argument defaults to the pathname specified for the scriptPath argument.</td>
</tr>
<tr>
<td>createDeploymentScript</td>
<td>Optional. Boolean value specifying whether WLST creates a script that performs deployments only. This argument defaults to false, indicating that a deployment script is not created.</td>
</tr>
</tbody>
</table>

Example

The following example converts the configuration to a WLST script config.py. By default, the configuration file is loaded from ./config, the script file is saved to ./config/config.py, and the properties files is saved to ./config/config.py.properties.

```
wlst:/offline> configToScript()
configToScript is loading configuration from c:\Oracle\Middleware\user_projects\domains\wls\config\config.xml ...
Completed configuration load, now converting resources to wlst script...
configToScript completed successfully
The WLST script is written to c:\Oracle\Middleware\user_projects\domains\wls\config\config.py
and the properties file associated with this script is written to c:\Oracle\Middleware\user_projects\domains\wls\config\config.py.properties
wlst:/offline>
```

The following example converts server resources configured in the file c:\Oracle\Middleware\user_projects\domains\mydomain\config directory to a WLST script c:\Oracle\Middleware\myscripts\config.py.

```
wlst:/offline> configToScript('c:\Oracle\Middleware\user_projects\domains\mydomain', 'c:\Oracle\Middleware\myscripts')
configToScript is loading configuration from c:\Oracle\Middleware
```
3.8.1.3 dumpStack

Command Category: Information Commands

Use with WLST: Online or Offline

Description

Displays the stack trace from the last exception that occurred while performing a WLST action, and resets the stack trace.

If successful, the dumpstack command returns the Throwable object. In the event of an error, the command returns a WLSTException.

Syntax

dumpStack()

Example

This example displays the stack trace.

wls:/myserver/serverConfig> dumpStack()
com.bea.plateng.domain.script.jython.WLSTException: java.lang.reflect.InvocationTargetException
...
3.8.1.5 find

Command Category: Information Commands
Use with WLST: Online

Description
Finds MBeans and attributes in the current hierarchy.

WLST returns the pathname to the MBean that stores the attribute and/or attribute type, and its value. If searchInstancesOnly is set to false, this command also searches the MBeanType paths that are not instantiated in the server, but that can be created. In the event of an error, the command returns a WLSTException.

Syntax
find([name], [type], [searchInstancesOnly])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Optional. Name of the attribute to find.</td>
</tr>
<tr>
<td>type</td>
<td>Optional. Type of the attribute to find.</td>
</tr>
<tr>
<td>searchInstancesOnly</td>
<td>Optional. Boolean value specifying whether to search registered instances only or to also search MBeanType paths that are not instantiated in the server, but that can be created. This argument defaults to true, indicating only the registered instances will be searched.</td>
</tr>
</tbody>
</table>

Example
The following example searches for an attribute named javaCompiler in the current configuration hierarchy.

wls:/mydomain/serverConfig> find(name = 'JavaCompiler')
Finding 'JavaCompiler' in all registered MBean instances ...
/Servers/AdminServer       JavaCompilerPreClassPath null
/Servers/AdminServer       JavaCompiler java
/Servers/AdminServer       JavaCompilerPostClassPath null

The following example searches for an attribute of type JMSRuntime in the current configuration hierarchy.

wls:/mydomain/serverRuntime> find(type='JMSRuntime')
Finding MBean of type 'JMSRuntime' in all the instances ...
/JMSRuntime/AdminServer.jms
The following example searches for an attribute named `execute` in the current configuration hierarchy. The `searchInstancesOnly` argument is set to `false`, indicating to also search MBeanTypes that are not instantiated in the server.

```bash
wls:/mydomain/serverConfig> find(name='execute', searchInstancesOnly='false')
Finding 'execute' in all registered MBean instances ...
/Servers/AdminServer ExecuteQueues [Ljavax.management.ObjectName;@1aa7dbc
/Servers/AdminServer Use81StyleExecuteQueues false
Now finding 'execute' in all MBean Types that can be instantiated ...
/Servers ExecuteQueues
/Servers Use81StyleExecuteQueues
wls:/mydomain/serverConfig>
```

### 3.8.1.6 getConfigManager

**Command Category:** Information Commands  
**Use with WLST:** Online

**Description**

Returns the latest `ConfigurationManager` MBean, which manages the change process. You can then invoke methods to manage configuration changes across a WebLogic domain. In the event of an error, the command returns a `WLSTException`.

**Syntax**

```bash
getConfigManager()
```

**Example**

The following example returns the latest `ConfigurationManagerBean` MBean and stores it in a `cm` variable.

```bash
wls:/mydomain/serverConfig> cm=getConfigManager()
wls:/mydomain/serverConfig> cm.getType()
"weblogic.management.mbeanservers.edit.ConfigurationManagerMBean"
```

### 3.8.1.7 getMBean

**Command Category:** Information Commands  
**Use with WLST:** Online

**Description**

Returns an MBean by browsing to the specified path. In the event of an error, the command returns a `WLSTException`.

**Note:**

No exception is thrown if the MBean is not found.

**Syntax**

```bash
getMBean(mbeanPath)
```
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mbeanPath</td>
<td>Path name to the MBean in the current hierarchy.</td>
</tr>
</tbody>
</table>

**Example**

The following example returns the MBean specified by the path.

```
wls:/mydomain/edit !> com=getMBean('Servers/myserver/COM/myserver')
wls:/mydomain/edit !> com.getType()
'Server'
```

### 3.8.1.8 getMBI

**Command Category: Information Commands**

**Use with WLST: Online**

**Description**

Returns the MBeanInfo for the specified MBeanType or the cmo variable. In the event of an error, the command returns a WLSTException.

**Syntax**

```
getMBI([mbeanType])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mbeanType</td>
<td>Optional. MBeanType for which the MBeanInfo is displayed.</td>
</tr>
</tbody>
</table>

**Example**

The following example gets the MBeanInfo for the specified MBeanType and stores it in the variable svrMbi.

```
wls:/mydomain/serverConfig>
svrMbi=getMBI('weblogic.management.configuration.ServerMBean')
```

### 3.8.1.9 getPath

**Command Category: Information Commands**

**Use with WLST: Online**

**Description**

Returns the MBean path for the specified MBean instance or ObjectName for the MBean in the current tree. In the event of an error, the command returns a WLSTException.

**Syntax**

```
getPath(mbean)
```
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mbean</td>
<td>MBean instance or ObjectName for the MBean in the current tree for which you want to return the MBean path.</td>
</tr>
</tbody>
</table>

#### Example

The following example returns the MBean specified by the path.

```
wl$:/mydomain/edit !> path=getPath('com.bea:Name=myserver,Type=Server')
wl$:/mydomain/edit !> print path
'Servers/myserver'
```

### 3.8.1.10 listChildTypes

**Command Category:** Information Commands  
**Use with WLST:** Online

**Description**

Lists all of the child MBeans that can be created or deleted for the cmo. The cmo variable specifies the configuration bean instance to which you last navigated using WLST. See Changing the Current Management Object in *Understanding the WebLogic Scripting Tool*.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

`listChildTypes([parent])`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>parent</td>
<td>Optional. Parent type for which you want the children types listed.</td>
</tr>
</tbody>
</table>

#### Example

The following example lists the children MBeans that can be created or deleted for the cmo type.

```
wls:/mydomain/serverConfig> listChildTypes()
AppDeployments
BridgeDestinations
CachingRealms
Clusters
...
wls:/mydomain/serverConfig>
```

### 3.8.1.11 lookup

**Command Category:** Information Commands  
**Use with WLST:** Online
Description

Looks up the specified MBean. The MBean must be a child of the current MBean. In the event of an error, the command returns a WLSTException.

Syntax

lookup(name, [childMBeanType])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the MBean that you want to lookup.</td>
</tr>
<tr>
<td>childMBeanType</td>
<td>Optional. The type of the MBean that you want to lookup.</td>
</tr>
</tbody>
</table>

Example

The following example looks up the specified server, myserver, and stores the returned stub in the sbean variable.

wls:/mydomain/serverConfig> sbean=lookup('myserver','Server')
wls:/mydomain/serverConfig> sbean.getType()©Server©
wls:/mydomain/serverConfig>

3.8.1.12 ls

Command Category: Information Commands

Use with WLST: Online or Offline

Description

Lists all of the child beans and/or attributes for the current configuration or runtime bean. You can optionally control the output by specifying an argument. If no argument is specified, the command lists all of the child beans and attributes in the domain. The output is returned as a string.

Note:

Because WLST offline enables you to access and update the configuration objects that appear in the configuration files only, if you want to view and/or change attribute values for a configuration object that is not already persisted in the configuration files as an XML element, you must first create the configuration object.

Because WLST online caches child beans for performance reasons, an ls() may not return child beans that were created in another process after the initial ls() was issued for the current bean. If a child bean is not present, then cd to the parent directory and then back to refresh the cache.

In the event of an error, the command returns a WLSTException.
By default, the output is returned as a string and is arranged in three columns.

**Note:**

By default, the `ls()` function echoes its output so that it appears on the console in which you are running WLST. You can disable this by including the following command in your WLST script:

```java
WLS.setShowLSResult(flag)
```

`flag` is a Boolean value. If it is 0 (false), then output from `ls()` to stdout is disabled and will not appear on the console. If it is set to 1 (true), then output from `ls()` to stdout is enabled.

- The first column displays a set of codes that describe the listed item. See **Table 3-9**.
- The second column displays the item name.
- When the item is an attribute, the third column displays the attribute value. If an attribute is encrypted, the third column displays asterisks instead of the value. (See **Writing and Reading Encrypted Configuration Values** in *Understanding the WebLogic Scripting Tool*.)
- When the item is an operation, the third column uses the following pattern to display the operation's return type and input parameters: `returnType: parameterType(parameterName)`

**Table 3-9  Is Command Output Information**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>d</code></td>
<td>Indicates that the item is a child management object. As with a directory in a UNIX or Windows file system, you can use the <code>cd</code> command to make the child object the current management object.</td>
</tr>
<tr>
<td><code>r</code></td>
<td>Indicates that the item is a child management object or an attribute that is readable, assuming that current user has been given read permission by the security realm's policies. (See <strong>Default Security Policies for MBeans</strong> in the <em>MBean Reference for Oracle WebLogic Server</em>.)</td>
</tr>
<tr>
<td><code>w</code></td>
<td>Indicates that the item is an attribute that is writable, assuming that current user has been given write permission by the security realm's policies. (See <strong>Default Security Policies for MBeans</strong> in the <em>Oracle WebLogic Server MBean Reference</em>.)</td>
</tr>
<tr>
<td><code>x</code></td>
<td>Indicates that the item is an operation that can be executed, assuming that current user has been given execute permission by the security realm's policies. (See <strong>Default Security Policies for MBeans</strong> in the <em>MBean Reference for Oracle WebLogic Server</em>.)</td>
</tr>
</tbody>
</table>

By default, the output lists all attributes, operations, and child management objects of the current management object. To filter the output or to see a list for a different management object, you can specify a command argument.
As a performance optimization, when using WLST offline, WebLogic Server does not store most of its default values in the configuration files for the WebLogic domain. In some cases, this optimization prevents entire management objects from being displayed by WLST offline (because WebLogic Server has never written the corresponding XML elements to the domain configuration files). For example, if you never modify the default logging severity level for a WebLogic domain while the domain is active, WLST offline will not display the Log management object for the domain.

If you want to change the default value of attributes whose management object is not displayed by WLST offline, you must first use the `create` command to create the management object. Then you can `cd` to the management object and change the attribute value. See `create`.

### Syntax

```
ls( [ a | c | o ] [ moPath ])
ls( [ moPath ] [returnMap] [ returnType ] [inheritance])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Optional. Displays only the attributes of the specified management object (suppresses the display of other items).</td>
</tr>
<tr>
<td>c</td>
<td>Optional. Displays only the child management objects of the specified management object (suppresses the display of other items).</td>
</tr>
<tr>
<td>o</td>
<td>Optional. Displays only the operations that can be invoked on the specified management object (suppresses the display of other items). This argument is only applicable for WLST online.</td>
</tr>
</tbody>
</table>
| moPath     | Optional. Path name to the management object for which you want to list attributes, operations, and child management objects. You can specify a pathname that is relative to your current location in the hierarchy or an absolute pathname. With WLST offline, use the forward-slash character (/) to specify the root of the configuration document. With WLST online, you can list the contents of MBeans in any management hierarchy (see **Tree Commands**). Use the following syntax to specify the root of a hierarchy:

```
root-name: /
```

For example, to list the root of the server runtime hierarchy:

```
ls('serverRuntime:/')
```

If you do not specify this argument, the command lists items for the current management object. |
<p>| returnType | Optional. Determines whether the command returns values as a map. This argument defaults to <code>false</code>, which causes this command to return a String. |
| inherit     | This argument is only applicable for WLST online. |</p>
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>returnType</td>
<td>Optional. Controls the output returned in the map. Specify a, c, or o, which filter the output as described at the top of this table. This argument is valid only if returnMap is set to true. This argument defaults to c.</td>
</tr>
<tr>
<td>inheritance</td>
<td>Optional. Boolean value that specifies whether to include inheritance information for each attribute value. If specified, then WLST will identify attribute values that are inherited from a server template by appending the value with an (Inherited) suffix. This argument defaults to false. It can be used only in WLST online mode. For information about server templates, see Server Templates in Understanding Domain Configuration for Oracle WebLogic Server.</td>
</tr>
</tbody>
</table>

**Example**

The following example displays all of the child configuration beans, and attribute names and values for the examples domain, which has been loaded into memory, in WLST offline mode:

```bash
wls:/offline/mydomain > ls()
dr-- AppDeployments
dr-- BridgeDestinations
dr-- Clusters
dr-- CustomResources
dr-- DeploymentConfiguration
dr-- Deployments
dr-- EmbeddedLDAP
dr-- ErrorHandlings
dr-- FileStores
dr-- InternalAppDeployments
dr-- InternalLibraries
dr-- JDBCDataSourceFactories
dr-- JDBCStores
dr-- JDBCSystemResources
dr-- JMSBridgeDestinations
dr-- JMSServer
```

The following example displays all of the attribute names and values in DomainMBean:

```bash
wls:/mydomain/serverConfig> ls('a')
```

```bash
-r-- AdminServerName AdminServer
-r-- AdministrationMBeanAuditingEnabled false
-r-- AdministrationPort 9002
-r-- AdministrationPortEnabled false
-r-- AdministrationProtocol t3s
-r-- ArchiveConfigurationCount 0
-r-- ClusterConstraintsEnabled false
-r-- ConfigBackupEnabled false
-r-- ConfigurationAuditType none
-r-- ConfigurationVersion 9.0.0.0
-r-- ConsoleContextPath console
-r-- ConsoleEnabled true
```
The following example displays all of the child beans, and attribute names and values in Servers MBean:

```
wls:/mydomain/serverConfig> ls('Servers')
```

The following example displays the attribute names and values for the specified MBean path and returns the information in a map:

```
wls:/mydomain/serverConfig> svrAttrList = ls('edit:/Servers/myserver', 'true', 'a')
```

The following command shows the output of `ls()` for the server `server1`, which inherits the `RestartIntervalSeconds` and `RestartMax` attributes from a defined server template:

```
wls:/domain1/serverConfig/Servers> ls('new_ManagedServer_1','true','a','true')
```

### 3.8.1.13 man

**Command Category:** Information Commands

**Use with WLST:** Online
Description
Displays help from MBeanInfo for the current MBean or its specified attribute. In the event of an error, the command returns a WLSTException.

Syntax
man([a | c | o | attrName])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Optional. Displays help for all the attributes for the current MBean.</td>
</tr>
<tr>
<td>c</td>
<td>Optional. Displays help for all the child configuration beans that are contained in the current MBean.</td>
</tr>
<tr>
<td>o</td>
<td>Optional. Displays help for all operations that can be invoked on the current MBean.</td>
</tr>
<tr>
<td>attrName</td>
<td>Optional. MBean attribute name for which you would like to display help. If not specified, WLST displays help for the current MBean.</td>
</tr>
</tbody>
</table>

Example
The following example displays help from MBeanInfo for the ServerMBean bean.

```wls:/mydomain/serverConfig> man('Servers')
dynamic : true
creator : createServer
destroyer : destroyServer
description : <p>Returns the ServerMBeans representing the servers that have been configured to be part of this domain.</p>
descriptorType : Attribute
Name : Servers
interfaceClassName : [Lweblogic.management.configuration.ServerMBean;
displayName : Servers
relationship : containment```

3.8.14 redirect

Command Category: Information Commands
Use with WLST: Online

Description
Redirects WLST information, error, and debug messages to the specified filename. Also redirects the output of the dumpStack() and dumpVariables() commands to the specified filename.

In the event of an error, the command returns a WLSTException.

Syntax
redirect(outputFile, [toStdOut])
**Argument** | **Definition**
--- | ---
`outputFile` | Name of the file to which you want to record the WLST commands. The filename can be absolute or relative to the directory from which you started WLST. 
`toStdOut` | Optional. Boolean value specifying whether the output should be sent to stdout. This argument defaults to `true`, indicating that the output will be sent to stdout.

**Example**
The following example begins redirecting WLST output to the `logs/wlst.log` file:

```
wlst:/mydomain/serverConfig> redirect('./logs/wlst.log')
```

### 3.8.1.15 removeListener

**Command Category:** Information Commands  
**Use with WLST:** Online

**Description**
Removes a previously defined listener. If you do not specify an argument, WLST removes all listeners defined for all MBeans. For information about setting a listener, see `addListener`.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
removeListener([mbean], [listenerName])
```

**Argument** | **Definition**
--- | ---
`mbean` | Optional. Name of the MBean or MBean object for which you want to remove the previously defined listeners.
`listenerName` | Optional. Name of the listener to be removed.

**Example**
The following example removes the listener named `mylistener`.

```
wlst:/mydomain/serverConfig> removeListener(listenerName="mylistener")
```

### 3.8.1.16 setShowLSResult

**Command Category:** Information Commands  
**Use with WLST:** Online or Offline
Description

Set this command to specify whether the `ls()` function should log its output to stdout or console. Set value to `false` to disable the output from `ls()` to stdout. Set value to `true` to enable the output from `ls()` to stdout.

Syntax

```javascript
setShowLSResult()
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>showResult</code></td>
<td>A Boolean value. If it is set to <code>false</code>, then the output from <code>ls()</code> to stdout is disabled. If set to <code>true</code>, then output from <code>ls()</code> to stdout is enabled.</td>
</tr>
</tbody>
</table>

Example

The following example disables the output from `ls()` to stdout in offline mode.

```wls
wls:/offline/base_domain> setShowLSResult(false)
wls:/offline/base_domain> ls()
```

The following example enables `ls()` to print output to stdout in online mode.

```wls
wls:/base_domain/serverConfig> setShowLSResult(true)
wls:/base_domain/serverConfig> ls()
dr-- AdminConsole
```

3.8.1.17 showListeners

Command Category: Information Commands

Use with WLST: Online

Description

Shows all currently defined listeners. For information about setting a listener, see `addListener`.

In the event of an error, the command returns a `WLSTException`.

Syntax

```javascript
showListeners()
```

Example

The following example shows all listeners that are currently defined.

```wls
wls:/mydomain/serverConfig> showListeners()
```

3.8.1.18 startRecording

Command Category: Information Commands

Use with WLST: Online or Offline
Description

Records all user interactions with WLST. This command is useful for capturing commands for replay.

In the event of an error, the command returns a WLSTException.

This command cannot be used when you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool.

Syntax

```
startRecording(recordFile, [recordAll])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>recordFile</td>
<td>Name of the file to which you want to record the WLST commands. The filename can be absolute or relative to the directory from which you invoked WLST.</td>
</tr>
<tr>
<td>recordAll</td>
<td>Optional. Boolean value specifying whether to capture all user interactions in the file. This argument defaults to false, indicating that only WLST commands are captured, and not WLST command output.</td>
</tr>
</tbody>
</table>

Example

The following example begins recording WLST commands in the `record.py` file:

```
wls:/mydomain/serverConfig> startRecording('c:/myScripts/record.py')
Starting recording to c:/myScripts/record.py
wls:/mydomain/serverConfig>
```

3.8.1.19 state

Command Category: Information Commands

Use with WLST: Online

Description

Uses Node Manager to return a map of servers, clusters, or system components and their state. Node Manager must be running.

See Understanding Server Life Cycle in Administering Server Startup and Shutdown for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

Syntax

```
state(name, [type], [returnMap])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the server, cluster, or system component for which you want to retrieve the current state.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>type</strong></td>
<td>Optional. Type is Server, Cluster, or SystemComponent. If not specified, WLST will look for a server, cluster, or system component with the specified name.</td>
</tr>
<tr>
<td><strong>returnMap</strong></td>
<td>Optional. Boolean value that specifies whether or not to return a map containing the return values. If returnMap is true, the state command returns a map of all states. The default is false.</td>
</tr>
</tbody>
</table>

**Example**

The following example returns the state of the Managed Server, managed1.

```
wls:/mydomain/serverConfig> state('managed1', 'Server')
Current state of "managed1": SUSPENDED
wls:/mydomain/serverConfig>
```

The following example returns the state of the cluster, mycluster. The optional type argument is excluded.

```
wls:/mydomain/serverConfig> state('mycluster')
There are 3 server(s) in cluster: mycluster
States of the servers are
MServer1---SHUTDOWN
MServer2---SHUTDOWN
MServer3---SHUTDOWN
wls:/mydomain/serverConfig>
```

The following example shows the return map that is printed to standard output when returnMap is set to false.

```
wls:/mydomain/serverConfig> retMap=state('managed1')
Current state of "managed1": SUSPENDED
wls:/mydomain/serverConfig> print retMap
None
```

The following example shows the return map that is printed to standard output when returnMap is set to true.

```
wls:/mydomain/serverConfig> retMap=state('managed1', returnMap='true')
Current state of "managed1": SUSPENDED
wls:/mydomain/serverConfig> print retMap
{managed1=SUSPENDED}
```

### 3.8.1.20 stopRecording

**Command Category:** Information Commands  
**Use with WLST:** Online or Offline  
**Description**

Stops recording WLST commands. For information about starting a recording, see `startRecording`.  

In the event of an error, the command returns a `WLSTException`.  

---

**Oracle**

3-133
3.8.1.21 stopRedirect

Command Category: Information Commands
Use with WLST: Online or Offline

Description
If redirection is in progress, stops the redirection of WLST output to a file.
In the event of an error, the command returns a WLSTException.

Syntax
stopRedirect()

Example
The following example stops the redirection of WLST output to a file:

```
wlst:/mydomain/serverConfig> stopRedirect()
WLST output will not be redirected to myfile.txt any more
```

3.8.1.22 storeUserConfig

Command Category: Information Commands
Use with WLST: Online

Description
Creates a user configuration file and an associated key file. The user configuration file contains an encrypted username and password. The key file contains a secret key that is used to encrypt and decrypt the username and password.

Only the key file that originally encrypted the username and password can be used to decrypt the values. If you lose the key file, you must create a new user configuration and key file pair.

In the event of an error, the command returns a WLSTException.

Syntax
storeUserConfig([userConfigFile], [userKeyFile], [nm])
### Argument | Definition
--- | ---
userConfigFile | **Optional.** Name of the file to store the user configuration. The pathname can be absolute or relative to the file-system directory from which you started WLST.

If you do not specify this argument, the command stores the file in your home directory as determined by your JVM. The location of the home directory depends on the SDK and type of operating system on which WLST is running. The default filename is based on the following pattern, where `username` is the user name that you used to log in to the operating system.

```
username-WebLogicConfig.properties
```

The command also prints to standard out the location in which it created the file.

userKeyFile | **Optional.** Name of the file to store the key information that is associated with the user configuration file that you specify. The pathname can be absolute or relative to the file-system directory from which you started WLST.

If you do not specify this argument, the command stores the file in your home directory as determined by your JVM. The location of the home directory depends on the SDK and type of operating system on which WLST is running. The default filename is based on the following pattern, where `username` is the user name that you used to log in to the operating system.

```
username-WebLogicKey.properties
```

The command also prints to standard out the location in which it created the file.

nm | **Optional.** Boolean value that specifies whether to store the username and password for Node Manager. If set to true, the Node Manager username and password is stored. This argument defaults to `false`.

### Example

The following example creates and stores a user configuration file and key file in the default location.

```
wls:/mydomain/serverConfig> storeUserConfig()
```

Creating the key file can reduce the security of your system if it is not kept in a secured location after it is created. Do you want to create the key file? y or n

```
y
```

The username and password that were used for this current WLS connection are stored in `C:\Documents and Settings\pat\pat-WebLogicConfig.properties` and `C:\Documents and Settings\pat\pat-WebLogicKey.properties`.

The following example creates and stores a user configuration file and key file in the specified locations.

```
wls:/mydomain/serverConfig> storeUserConfig('c:/myFiles/myuserconfigfile.secure', 'c:/myFiles/myuserkeyfile.secure')
```

Creating the key file can reduce the security of your system if it is not kept in a secured location after it is created. Do you want to create the key file? y or n

```
y
```

The username and password that were used for this current WLS connection are stored in `c:/myFiles/myuserconfigfile.secure` and `c:/myFiles/myuserkeyfile.secure`.

```
3.8.1.23 threadDump

Command Category: Information Commands

Use with WLST: Online or Offline

Description
Displays a thread dump for the specified server. In the event of an error, the command returns a WLSTException.

Syntax
threadDump([writeToFile], [fileName], [serverName])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>writeToFile</td>
<td>Optional. Boolean value specifying whether to save the output to a file. This argument defaults to true, indicating that output is saved to a file.</td>
</tr>
<tr>
<td>fileName</td>
<td>Optional. Name of the file to which the output is written. The filename can be absolute or relative to the directory where WLST is running. This argument defaults to Thread_Dump_serverName file, where serverName indicates the name of the server. This argument is valid only if writeToFile is set to true.</td>
</tr>
<tr>
<td>serverName</td>
<td>Optional. Server name for which the thread dump is requested. This argument defaults to the server to which WLST is connected. If you are connected to an Administration Server, you can display a thread dump for the Administration Server and any Managed Server that is running in the WebLogic domain. If you are connected to a Managed Server, you can only display a thread dump for that Managed Server.</td>
</tr>
</tbody>
</table>

Example
The following example displays the thread dump for the current server and saves the output to the Thread_Dump_serverName file.

wls:/mydomain/serverConfig> threadDump()

The following example displays the thread dump for the server managedServer. The information is not saved to a file.

wls:/mydomain/serverConfig> threadDump(writeToFile='false', serverName='managedServer')

3.8.1.24 viewMBean

Command Category: Information Commands

Use with WLST: Online

Description
Displays information about an MBean, such as the attribute names and values, and operations. In the event of an error, the command returns a WLSTException.
Syntax

viewMBean(mbean)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mbean</td>
<td>MBean for which you want to display information.</td>
</tr>
</tbody>
</table>

Example

The following example displays information about the current MBean, cmo.

```plaintext
wls:/mydomain/serverConfig> cmo.getType()
'Domain'
wls:/mydomain/serverConfig> viewMBean(cmo)
Attribute Names and Values
--------------------------
XMLEntityCaches   null
Targets   javax.management.ObjectName[com.bea
            :Name=MedRecJMSServer,Type=JMSServer,
            com.bea:Name=WSStoreForwardInternalJMSServerMedRecServer,Type=JMSServer,
            com.bea:Name=MedRecWseeJMSServer,Type=JMSServer,
            com.bea:Name=PhysWSEEJMSServer,Type=JMSServer,
            com.bea:Name=MedRecSAFAgent,Type=SAFAgent,
            com.bea:Name=AdminServer,Type=Server]
RootDirectory                                .
EmbeddedLDAP                          com.bea:Name=OOTB_medrec,Type=EmbeddedLDAP
RemoteSAFContexts  null
Libraries   javax.management.ObjectName[com.bea
            ...
```

3.8.1.25 writeIniFile

Command Category: Information Commands

Use with WLST: Online

Description

Converts WLST definitions and method declarations to a Python (.py) file to enable advanced users to import them as a Jython module. After importing, the definitions and method declarations are available to other Jython modules and can be accessed directly using Jython syntax. See Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool.

In the event of an error, the command returns a WLSTException.

Syntax

writeIniFile(filePath)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>filePath</td>
<td>Full pathname to the file that you want to save the converted information.</td>
</tr>
</tbody>
</table>
Example

The following example converts WLST to a Python file named `wl.py`.

```bash
wls:/offline> writeIniFile("wl.py")
The Ini file is successfully written to wl.py
wls:/offline>
```

3.9.1 Life Cycle Commands

Use the WLST life cycle commands to manage the life cycle of a server instance. Table 3-10 lists and summarizes these commands. See Understanding Server Life Cycle in Administering Server Startup and Shutdown for Oracle WebLogic Server.

Table 3-10  Life Cycle Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>forceShutdownPartitionWait</td>
<td>Shut down a domain partition and wait until the partition has shut down.</td>
<td>Online</td>
</tr>
<tr>
<td>migrate</td>
<td>Migrate services to a target server within a cluster.</td>
<td>Online</td>
</tr>
<tr>
<td>migrateResourceGroup</td>
<td>Migrates a domain partition resource group from one target to another target.</td>
<td>Online</td>
</tr>
<tr>
<td>resume</td>
<td>Resume a server instance that is suspended or in ADMIN state.</td>
<td>Online</td>
</tr>
<tr>
<td>scaleDown</td>
<td>Decrease the number of running dynamic servers in the specified dynamic cluster.</td>
<td>Online</td>
</tr>
<tr>
<td>scaleUp</td>
<td>Increase the number of running dynamic servers for the specified dynamic cluster.</td>
<td>Online</td>
</tr>
<tr>
<td>shutdown</td>
<td>Gracefully shut down a running server instance, cluster, or system component.</td>
<td>Online</td>
</tr>
<tr>
<td>softRestart</td>
<td>Restart a system component server instance.</td>
<td>Online</td>
</tr>
<tr>
<td>start</td>
<td>Start a Managed Server instance or a cluster using Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>startPartitionWait</td>
<td>Starts a domain partition and waits until the partition has started.</td>
<td>Online</td>
</tr>
<tr>
<td>startServer</td>
<td>Start the Administration Server.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>suspend</td>
<td>Suspend a running server.</td>
<td>Online</td>
</tr>
</tbody>
</table>

3.9.1.1 forceShutdownPartitionWait

Command Category: Life Cycle Commands

Use with WLST: Online
Description

Shuts down the existing partition and waits until the partition reaches the SHUTDOWN state.

This command should not be used in the edit session that created the partition. For complete control of a partition's life cycle, use the PartitionLifeCycleRuntimeMBean command.

Syntax

```
forceShutdownPartitionWait(partition, [timeout])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partition</td>
<td>The partition to be shutdown. This must be a partition MBean, for example, one returned by Domain.createPartition() or Domain.lookupPartition().</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. The timeout in milliseconds. This defaults to 60 seconds. If the partition does not shut down within the timeout, then the command will generate a timeout exception.</td>
</tr>
</tbody>
</table>

Example

The following example shuts down the partition, partition1.

```
/mydomain/serverConfig> forceShutdownPartitionWait(cmo.lookupPartition("partition1"))
```

3.9.1.2 migrate

Command Category: Life Cycle Commands

Use with WLST: Online

Description

Migrates the specified services (JTA, JMS, or Server) to a targeted server within a cluster. In the event of an error, the command returns a WLSTException.

For information about migrating services, see Service Migration in Administering Clusters for Oracle WebLogic Server.

Syntax

```
migrate(sname, destinationName, [sourceDown], [destinationDown], [migrationType])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>sname</td>
<td>Name of the migratable target that should be migrated.</td>
</tr>
<tr>
<td>destinationName</td>
<td>Name of the machine or server to which you want to migrate the services.</td>
</tr>
</tbody>
</table>
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>sourceDown</td>
<td>Optional. Boolean value specifying whether the source server is down. This argument defaults to true, indicating that the source server is not running. When migrating JTA services, the sourceDown argument is ignored, if specified, and defaults to true. The source server must be down in order for the migration of JTA services to succeed.</td>
</tr>
<tr>
<td>destinationDown</td>
<td>Optional. Boolean value specifying whether the destination server is down. This argument defaults to false, indicating that the destination server is running. If the destination is not running, and you do not set this argument to true, WLST returns a MigrationException. When migrating JMS-related services to a non-running server instance, the server instance will activate the JMS services upon the next startup. When migrating the JTA Transaction Recovery Service to a non-running server instance, the target server instance will assume recovery services when it is started.</td>
</tr>
</tbody>
</table>
| migrationType | Optional. Type of service(s) that you want to migrate. Valid values include:  
• jms—Migrate JMS-related services (JMS server, SAF agent, path service, and the WebLogic persistent store) only.  
• jta—Migrate JTA services only.  
• server—Migrate Server services only.  
• all—Migrate all JTA and JMS services. This argument defaults to all. |

### Example

The following example migrates all JMS and JTA services on server1 to the server server2. The boolean arguments specify that the source server is down and the destination server is running.

```
wls:/mydomain/edit !> migrate('server1', 'server2', 'true', 'false', 'all')
Migrating all JMS and JTA services from 'server1' to destination 'server2' ...  
wls:/mydomain/edit !>
```

The following example migrates all Server services on server1 to the server server2. The boolean arguments specify that the source server is down and the destination server is running.

```
wls:/mydomain/edit !> migrate('server1', 'server2', 'true', 'false', 'Server')
Migrating singleton server services from 'server1' to machine 'server2'...  
wls:/mydomain/edit !>
```

### 3.9.1.3 migrateResourceGroup

**Command Category:** Life Cycle Commands  
**Use with WLST:** Online  
**Description**

Migrates a partition resource group from one target (server or cluster) to another target. Partition resource groups are targeted to VirtualTargets. A VirtualTarget is in
turn targeted to a cluster or a server. This command lets you migrate a resource group from one cluster (or server) to another.

The HTTP session state is preserved during this migration if you are migrating from one cluster to another cluster. Otherwise the HTTP session state will be lost.

**Syntax**

```java
migrateResourceGroup(partitionVirtualTarget, currentTarget, newTarget, [timeout])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partitionVirtualTarget</td>
<td>The VirtualTarget on which the resource group is currently running.</td>
</tr>
<tr>
<td>currentTarget</td>
<td>The physical target (server or cluster) within the partitionVirtualTarget. This is the physical target you want to migrate from.</td>
</tr>
<tr>
<td>newTarget</td>
<td>The physical target (server or cluster) you want to migrate to. This will replace the currentTarget in the partitionVirtualTarget.</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. The timeout in milliseconds. The default is -1, which means to wait indefinitely.</td>
</tr>
</tbody>
</table>

**Example**

The following example migrates a resource group from cluster1 to cluster2.

```java
wls:/mydomain/serverConfig> task = migrateResourceGroup(partition1VT, cluster1, cluster2, 60*1000)
```

### 3.9.1.4 resume

**Command Category:** Life Cycle Commands

**Use with WLST:** Online

**Description**

Resumes a server instance that is suspended or in ADMIN state. This command moves a server to the RUNNING state. See Understanding Server Life Cycle in *Administering Server Startup and Shutdown for Oracle WebLogic Server*.

In the event of an error, the command returns a WLSTException.

**Syntax**

```java
resume([sname], [block])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>sname</td>
<td>Name of the server to resume. This argument defaults to the server to which WLST is currently connected.</td>
</tr>
</tbody>
</table>
### 3.9.1.5 scaleDown

**Command Category:** Life Cycle Commands  
**Use with WLST:** Online

**Description**

Gracefully shuts down the specified number of running dynamic servers for the specified dynamic cluster. The server with the highest server ID will be shut down first, followed by the server with the next highest server ID, until the specified number of servers have been shut down. The user may, optionally, specify to decrease the size of the dynamic cluster.

#### Note:

The `scaleDown` command lowers the cluster dynamic cluster size setting when its `updateConfiguration` option is enabled, which in turn can abandon JMS persistent messages and JTA transactions that are associated with retired servers. If you are using JMS or JTA, do not use `scaleDown` with its `updateConfiguration` option enabled. See Best Practices for Using Cluster Targeted JMS Services in Administering JMS Resources for Oracle WebLogic Server.

**Syntax**

```
scaleDown (clusterName, numServers, [updateConfiguration], [block],  
[timeoutSeconds], [type])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>clusterName</code></td>
<td>Name of the dynamic cluster.</td>
</tr>
</tbody>
</table>
### 3.9.1.6 scaleUp

**Command Category:** Life Cycle Commands

**Use with WLST:** Online

**Description**

Increases the number of running dynamic servers for the specified dynamic cluster. The non-running server with the lowest server ID starts first, followed by the non-running server with the next highest server ID. The user may, optionally, increase the size of the dynamic cluster configuration if there are not enough non-running servers in the cluster to start. If the `updateConfiguration` argument is specified, then the dynamic cluster size setting of the cluster is increased by the additional number of servers, and the specified number of servers are started.

**Syntax**

```
scaleUp (clusterName, numServers, [updateConfiguration], [block], [timeoutSeconds], [type])
```
### 3.9.1.7 shutdown

**Command Category:** Life Cycle Commands

**Use with WLST:** Online

**Description**

Gracefully shuts down a running server instance, cluster, or system component. The `shutdown` command waits for all the in-process work to be completed before shutting down the server, cluster, or system component.

To shut down a server to which WLST is connected, use the `shutdown` command without any arguments.
When connected to a Managed Server instance, use the `shutdown` command to shut down the only Managed Server instance to which WLST is connected. You cannot shut down another server while connected to a Managed Server instance.

**Note:**

To shut down a system component (for example, Oracle HTTP Server or Oracle Data Integrator system component), WLST must be connected to the Administration Server.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
shutdown([name], [entityType], [ignoreSessions], [timeOut], [force], [block],
[properties], [waitForAllSessions])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>name</code></td>
<td>Optional. Name of the server, cluster, or system component to shut down. This argument defaults to the server to which WLST is connected.</td>
</tr>
<tr>
<td><code>entityType</code></td>
<td>Optional. Type <code>Server</code>, <code>Cluster</code>, or <code>SystemComponent</code>. If not specified, WLST looks for a server, cluster, or system component with the specified name.</td>
</tr>
<tr>
<td><code>ignoreSessions</code></td>
<td>Optional. Boolean value specifying whether WLST must drop all HTTP sessions immediately, or wait for HTTP sessions to complete or time out while shutting down. This argument defaults to <code>false</code>, indicating that non-persisted HTTP sessions must complete or time out.</td>
</tr>
<tr>
<td><code>timeOut</code></td>
<td>Optional. Time (in seconds) that WLST waits for subsystems to complete in-process work and suspend themselves before shutting down the server. This argument defaults to 0 seconds, indicating that there is no timeout.</td>
</tr>
<tr>
<td><code>force</code></td>
<td>Optional. Boolean value specifying whether WLST must terminate a server instance or a cluster without waiting for the active sessions to complete. This argument defaults to <code>false</code>, indicating that all active sessions must complete before shut down.</td>
</tr>
<tr>
<td><code>block</code></td>
<td>Optional. Boolean value specifying whether WLST must block user interaction until the server is shut down. This argument defaults to <code>true</code>, indicating that user interaction is blocked until the operation completes. If set to <code>false</code>, WLST returns control to the user after issuing the command and assigns the task MBean associated with the current task to a variable that you can use to check its status. If you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in <em>Understanding the WebLogic Scripting Tool</em>, <code>block</code> is always set to <code>true</code>.</td>
</tr>
<tr>
<td><code>properties</code></td>
<td>Optional. Applies only if entityType is <code>SystemComponent</code>. Properties value specifying properties to pass to the system component.</td>
</tr>
<tr>
<td><code>waitForAllSessions</code></td>
<td>Optional. Boolean value specifying whether WLST must wait for all HTTP sessions to complete while shutting down. This argument defaults to <code>false</code>, which causes WLST to wait for only non-persisted HTTP sessions to complete.</td>
</tr>
</tbody>
</table>
Example

The following example instructs WLST to shut down the server to which you are connected:

```
> shutdown()
```

Shutting down the admin server that you are currently connected to ........
Disconnected from weblogic server: AdminServer

The following example instructs WLST to wait 1000 seconds for HTTP sessions to complete or time out (at 1000 seconds) before shutting down `myserver`:

```
> shutdown('myserver','Server','false',1000, block='false')
```

The following example instructs WLST to drop all HTTP sessions immediately while connected to a Managed Server instance:

```
> shutdown('MServer1','Server','true',1200)
```

Shutting down a managed server that you are connected to ...
Disconnected from weblogic server: MServer1

The following example instructs WLST to shut down the cluster `mycluster`:

```
> shutdown('mycluster','Cluster')
```

Shutting down the cluster with name mycluster
Shutdown of cluster mycluster has been issued, please refer to the logs to check if the cluster shutdown is successful.
Use the `state()` to check the status of the server or cluster

```
> state('mycluster','Cluster')
```

There are 3 server(s) in cluster: mycluster

States of the servers are
MServer1----SHUTDOWN
MServer2----SHUTDOWN
MServer3----SHUTDOWN

3.9.1.8 softRestart

Command Category: Life Cycle Commands

Use with WLST: Online

Description

Restarts a running system component. WLST must be connected to the Administration Server to restart a system component.

In the event of an error, the command returns a WLSTException.

Syntax

```
softRestart(name, [block], [properties])
```
### Argument Definition

**name**
Name of the system component to restart.

**block**
Optional. Boolean value specifying whether WLST should block user interaction until the server is restarted. This argument defaults to `true`, indicating that user interaction is blocked until the operation completes. If set to `false`, WLST returns control to the user after issuing the command and assigns the task MBean associate with the current task to a variable that you can use to check its status. If you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool, block is always set to `true`.

**properties**
Optional. Properties value specifying properties to pass to the system component.

### Example

The following example restarts a system component call ohs1.

```
wlst:/mydomain/serverConfig> softRestart('ohs1', block='true')
Restarting the system component with name ohs1 ...
System component with name ohs1 restarted successfully
wlst:/mydomain/serverConfig>
```

### 3.9.1.9 start

**Command Category:** Life Cycle Commands  
**Use with WLST:** Online  

**Description**

Starts a Managed Server instance, cluster, or system component using Node Manager. WLST must be connected to the Administration Server. If only starting Managed Servers then WLST can just be connected to the Node Manager.

See [Node Manager Commands](#).

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
start(name, [type], [listenAddress], [port], [block], [properties])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of the Managed Server, cluster, or system component to start.</td>
</tr>
<tr>
<td>type</td>
<td>Optional. Type is <code>Server</code>, <code>Cluster</code>, or <code>SystemComponent</code>. If not specified, WLST will look for a server, cluster, or system component with the specified name.</td>
</tr>
<tr>
<td>listenAddress</td>
<td>Optional. Listen address of the server instance. If not specified, this defaults to <code>localhost</code>. This is ignored if type Cluster or SystemComponent is specified.</td>
</tr>
</tbody>
</table>
### Argument Definitions

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>port</strong></td>
<td>Optional. Listen port of the server instance. If not specified, this defaults to 7001. This is ignored if type Cluster or SystemComponent is specified.</td>
</tr>
<tr>
<td><strong>block</strong></td>
<td>Optional. Boolean value specifying whether WLST should block user interaction until the server or cluster is started. This argument defaults to true, indicating that user interaction is blocked until the operation completes. If set to false, WLST returns control to the user after issuing the command and assigns the task MBean associated with the current task to a variable that you can use to check its status. If you are importing WLST as a Jython module, as described Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool, block is always set to true.</td>
</tr>
<tr>
<td><strong>properties</strong></td>
<td>Optional. Applies only if type is SystemComponent. Properties value specifying properties to pass to the system component.</td>
</tr>
</tbody>
</table>

### Example

The following example instructs Node Manager to start a Managed Server instance; the listen address is localhost and listen port is 8801. WLST returns control to the user after issuing this command, as block is set to false.

```shell
wls:/mydomain/serverConfig> start('myserver', 'Server', block='false')
Starting server myserver ...
The server start status task for server myserver is assigned to variable myserverTask
You can call the getStatus(), getError(), getDescription() or isRunning() methods on this variable to determine the status of your server start
```

The following example instructs Node Manager to start a cluster. WLST block user interaction until the cluster is started, as block defaults to true.

```shell
wls:/mydomain/serverConfig> start('mycluster', 'Cluster')
Starting the following servers in Cluster, mycluster: MS1, MS2, MS3...
......................................................................
All servers in the cluster mycluster are started successfully.
wls:/mydomain/serverConfig>
```

### 3.9.1.10 startPartitionWait

**Command Category:** Life Cycle Commands

**Use with WLST:** Online

**Description**

Starts the given partition and waits until the partition reaches the requested state (by default the RUNNING state). The partition must already exist. Therefore, you should not use startPartitionWait in the edit session that creates the partition. By default partitions are created in SHUTDOWN state, so they must be started to activate any resources or applications defined in the partition.

startPartitionWait is a convenience command. For full control of a partition's lifecycle (including shutting down a partition) use the PartitionLifeCycleRuntimeMBean.
Syntax

```
startPartitionWait(partition, [initialState], [timeout])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>partition</td>
<td>The partition to start. This must be a PartitionMBean, for example one returned by <code>Domain.createPartition()</code> or <code>Domain.lookupPartition()</code>.</td>
</tr>
<tr>
<td>initialState</td>
<td>Optional. Either <code>RUNNING</code> or <code>ADMIN</code>. If not specified, it defaults to <code>RUNNING</code>.</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. Time (in milliseconds) that WLST waits for the partition to start. If the partition does not start within the timeout, then the command generates a timeout exception. The default value is 60000 milliseconds (60 seconds).</td>
</tr>
</tbody>
</table>

Example

The following examples starts the partition `partition1` in RUNNING mode.

```
wls:/mydomain/serverConfig> startPartitionWait(cmo.lookupPartition("partition1"))
```

3.9.1.11 `startServer`

Command Category: Life Cycle Commands

Use with WLST: Online or Offline

Description

Starts the Administration Server. In the event of an error, the command returns a `WLSTException`.

**Note:**

You can use `startServer` only to start a WebLogic Administration Server, by running WLST from the `ORACLE_HOME/oracle_common/common/bin` directory. You cannot use `startServer` to start an integrated WebLogic Administration Server (that is, an Administration Server for a Fusion Middleware Suite product installed in an `ORACLE_HOME` directory).

To start the Administration server for a Fusion Middleware Suite product other than WebLogic Server, use either of the following methods:

- Execute the server startup script for the associated WebLogic domain.
- Start the server using Node Manager. If you use this method, make sure that the `startScriptEnabled` property is set to `true` in Node Manager.

Syntax

```
startServer([adminServerName], [domainName], [url], [username], [password],
[domainDir], [block], [timeout], [serverLog], [systemProperties], [jvmArgs]
[spaceAsJvmArgsDelimiter])
```
## Argument Definitions

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>adminServerName</td>
<td>Optional. Name of the Administration Server to start. This argument defaults to myserver.</td>
</tr>
<tr>
<td>domainName</td>
<td>Optional. Name of the WebLogic domain to which the Administration Server belongs. This argument defaults to mydomain.</td>
</tr>
<tr>
<td>url</td>
<td>Optional. URL of the Administration Server. The URL supplied with the startServer command will override the listen address and port specified in the config.xml file. If not specified on the command line or in the config.xml file, this argument defaults to t3://localhost:7001.</td>
</tr>
<tr>
<td>username</td>
<td>Optional. Username used to connect WLST to the server.</td>
</tr>
<tr>
<td>password</td>
<td>Optional. Password used to connect WLST to the server.</td>
</tr>
<tr>
<td>domainDir</td>
<td>Optional. Domain directory in which the Administration Server is being started. This argument defaults to the directory from which you started WLST.</td>
</tr>
<tr>
<td>block</td>
<td>Optional. Boolean value specifying whether WLST blocks user interaction until the server is started. When block is set to false, WLST returns control to the user after issuing the command. This argument defaults to true, indicating that user interaction is blocked. If you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool, block is always set to true.</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. Time (in milliseconds) that WLST waits for the server to start before canceling the operation. The default value is 60000 milliseconds. This argument is only applicable when block is set to true.</td>
</tr>
<tr>
<td>serverLog</td>
<td>Optional. Location of the server log file. This argument defaults to stdout.</td>
</tr>
<tr>
<td>systemProperties</td>
<td>Optional. System properties to pass to the server process. System properties should be specified as comma-separated name-value pairs, and the name-value pairs should be separated by equals sign (=).</td>
</tr>
<tr>
<td>jvmArgs</td>
<td>Optional. JVM arguments to pass to the server process. Multiple arguments can be specified, separated by commas.</td>
</tr>
<tr>
<td>spaceAsJvmArgsDelimiter</td>
<td>Optional. Boolean value specifying whether JVM arguments are space delimited. The default value is false.</td>
</tr>
</tbody>
</table>

## Example

The following example starts the Administration Server named demoServer in the demoDomain.

```bash
wls:offline> startServer('demoServer','demoDomain','t3://localhost:8001',
                      'myweblogic','wlstdomain','c:/mydomains/wlst','false', 60000,
                      jvmArgs='-XX:MaxPermSize=75m, -Xmx512m, -XX:+UseParallelGC')
wls:offline>
```
3.9.1.12 suspend

Command Category: Life Cycle Commands

Use with WLST: Online

Description

Suspends a running server. This command moves a server from the RUNNING state to the ADMIN state. See Understanding Server Life Cycle in Administering Server Startup and Shutdown for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

Syntax

suspend([sname], [ignoreSessions], [timeOut], [force], [block])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>sname</td>
<td>Optional. Name of the server to suspend. The argument defaults to the server to which WLST is currently connected.</td>
</tr>
<tr>
<td>ignoreSessions</td>
<td>Optional. Boolean value specifying whether WLST should drop all HTTP sessions immediately or wait for HTTP sessions to complete or time out while suspending. This argument defaults to false, indicating that HTTP sessions must complete or time out.</td>
</tr>
<tr>
<td>timeOut</td>
<td>Optional. Time (in seconds) the WLST waits for the server to complete in-process work before suspending the server. This argument defaults to 0 seconds, indicating that there is no timeout.</td>
</tr>
<tr>
<td>force</td>
<td>Optional. Boolean value specifying whether WLST should suspend the server without waiting for active sessions to complete. This argument defaults to false, indicating that all active sessions must complete before suspending the server.</td>
</tr>
<tr>
<td>block</td>
<td>Optional. Boolean value specifying whether WLST blocks user interaction until the server is started. This argument defaults to false, indicating that user interaction is not blocked. In this case, WLST returns control to the user after issuing the command and assigns the task MBean associated with the current task to a variable that you can use to check its status. If you are importing WLST as a Jython module, as described in Importing WLST as a Jython Module in Understanding the WebLogic Scripting Tool, block is always set to true.</td>
</tr>
</tbody>
</table>

Example

The following example suspends a Managed Server instance:

```
wlst:/mydomain/serverConfig> suspend('managed1')
Server 'managed1' suspended successfully.
wlst:/mydomain/serverConfig>
```

3.10.1 Node Manager Commands

Use the WLST Node Manager commands to start, shut down, restart, and monitor WebLogic Server instances. Table 3-11 lists and summarizes these commands.
Note:
Unless otherwise indicated, Node Manager must be running before you can execute the commands within this category.

See Using Node Manager in the *Administering Node Manager for Oracle WebLogic Server*.

### Table 3-11  Node Manager Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>getNodeManagerHome</td>
<td>Get the Node Manager home.</td>
<td>Offline</td>
</tr>
<tr>
<td>getNodeManagerType</td>
<td>Get the Node Manager type.</td>
<td>Offline</td>
</tr>
<tr>
<td>getNodeManagerUpgradeOverwriteDefault</td>
<td>Get the value of the Node Manager upgrade overwrite default flag.</td>
<td>Offline</td>
</tr>
<tr>
<td>getNodeManagerUpgradeType</td>
<td>Get the Node Manager upgrade type used for Node Manager upgrade.</td>
<td>Offline</td>
</tr>
<tr>
<td>getOldNodeManagerHome</td>
<td>Get the old Node Manager home used for Node Manager upgrade.</td>
<td>Offline</td>
</tr>
<tr>
<td>nm</td>
<td>Determine whether WLST is connected to Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>nmConnect</td>
<td>Connect WLST to Node Manager to establish a session.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmDisconnect</td>
<td>Disconnect WLST from a Node Manager session.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmEnroll</td>
<td>Enable the Node Manager on the current computer to manage servers in a specified WebLogic domain.</td>
<td>Online</td>
</tr>
<tr>
<td>nmExecScript</td>
<td>Execute the named script using the connected Node Manager.</td>
<td>Online</td>
</tr>
<tr>
<td>nmGenBootStartupProps</td>
<td>Generate the Node Manager property files, <code>boot.properties</code> and <code>startup.properties</code>, for the specified server.</td>
<td>Online</td>
</tr>
<tr>
<td>nmKill</td>
<td>Kill the specified server instance that was started with Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmLog</td>
<td>Return the Node Manager log.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmRestart</td>
<td>Restart the Node Manager instance.</td>
<td>Online</td>
</tr>
<tr>
<td>nmServerLog</td>
<td>Return the server output log of the server that was started with Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmServerStatus</td>
<td>Return the status of the server that was started with Node Manager.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmSoftRestart</td>
<td>Restart the specified System Component server instance.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>nmStart</td>
<td>Start a server in the current WebLogic domain using Node Manager.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>
Table 3-11  (Cont.) Node Manager Commands for WLST Configuration

<table>
<thead>
<tr>
<th>This command...</th>
<th>Enables you to...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>nmVersion</td>
<td>Return the Node Manager server version.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>startNodeManager</td>
<td>Start Node Manager on the same computer that is running WLST.</td>
<td>Online or Offline</td>
</tr>
<tr>
<td>stopNodeManager</td>
<td>Stop Node Manager.</td>
<td>Online or Offline</td>
</tr>
</tbody>
</table>

3.10.1.1 getNodeManagerHome

Command Category: Control Commands
Use with WLST: Offline
Description
Gets the Node Manager home directory for a domain. In the event of an unsupported operation, the command returns a WLSTException. Node Manager does not have to be running in order to execute this command.

Syntax

getNodeManagerHome()

Example
The following example returns the Node Manager home directory:

`wls:/offline/base_domain>getNodeManagerHome()
'C:\domains\my_domain\nodemanager'

3.10.1.2 getNodeManagerType

Command Category: Control Commands
Use with WLST: Offline
Description
Gets the Node Manager type for a domain (PerDomainNodeManager, CustomLocationNodeManager, or ManualNodeManagerSetup). In the event of an unsupported operation, the command returns a WLSTException. Node Manager does not have to be running in order to execute this command.
For information on Node Manager types, see Default Node Manager Configuration in Administering Node Manager for Oracle WebLogic Server.

Syntax

getNodeManagerType()
Example

The following example returns the Node Manager type for the domain. In this case, it is a PerDomainNodeManager.

```
wlst:offline/base_domain>getNodeManagerType()
'PerDomainNodeManager'
```

### 3.10.1.3 getNodeManagerUpgradeOverwriteDefault

**Command Category:** Control Commands  
**Use with WLST:** Offline

**Description**
Gets the value of the Node Manager upgrade overwrite default flag. In the event of an unsupported operation, the command returns a WLSTException. Node Manager does not have to be running in order to execute this command.

**Syntax**
```
getNodeManagerUpgradeOverwriteDefault()
```

**Example**
The following command returns a value of true or false.

```
wlst:offline/base_domain>getNodeManagerUpgradeOverwriteDefault()
```

### 3.10.1.4 getNodeManagerUpgradeType

**Command Category:** Control Commands  
**Use with WLST:** Offline

**Description**
Gets the Node Manager upgrade type to be used for Node Manager upgrade during domain reconfiguration. In the event of an unsupported operation, the command returns a WLSTException. Node Manager does not have to be running in order to execute this command.

**Syntax**
```
getNodeManagerUpgradeType()
```

**Example**
The following example returns a value of New or Migrate.

```
wls:offline/base_domain>getNodeManagerUpgradeType()
```

### 3.10.1.5 getOldNodeManagerHome

**Command Category:** Control Commands  
**Use with WLST:** Offline
Description

Gets the old Node Manager home to be used for Node Manager upgrade during domain reconfiguration. In the event of an unsupported operation, the command returns a WLSTException. Node Manager does not have to be running in order to execute this command.

Syntax

getOldNodeManagerHome

Example

In this example, the command returns the Node Manager home directory (/scratch/domain/nodemanager) that was used when the domain was reconfigured during an upgrade.

wls:/offline/base_domain>getOldNodeManagerHome()
/scratch/domains/nodemanager

3.10.1.6 nm

Command Category: Node Manager Commands
Use with WLST: Online or Offline

Description

Determines whether WLST is connected to Node Manager. Returns true or false and prints a descriptive message. Node Manager must be running before you can execute this command.

In the event of an error, the command returns a WLSTException.

Syntax

nm()

Example

The following example indicates that WLST is currently connected to Node Manager that is monitoring mydomain.

wls:/mydomain/serverConfig> nm()
Currently connected to Node Manager that is monitoring the domain "mydomain"
wls:/mydomain/serverConfig>

The following example indicates that WLST is not currently connected to Node Manager.

wls:/mydomain/serverConfig> nm()
Not connected to any Node Manager
wls:/mydomain/serverConfig>

3.10.1.7 nmConnect

Command Category: Node Manager Commands
Use with WLST: Online or Offline

Description

Connects WLST to Node Manager to establish a session. After connecting to Node Manager, you can invoke any Node Manager commands via WLST. Node Manager must be running before you can execute this command.

Note:

If you have previously used the `connect` command in the current WLST session, `nmconnect` uses the same user credentials as were used for the `connect` command, unless you specify otherwise.

Once connected, the WLST prompt displays as follows, where `domainName` indicates the name of the WebLogic domain that is being managed: `wls:/nm/directoryName`. If you then connect WLST to a WebLogic Server instance, the prompt is changed to reflect the WebLogic Server instance. You can use the `nm` command to determine whether WLST is connected to Node Manager, as described in `nm`.

In the event of an error, the command returns a `WLSTException`.

Syntax

```
nmConnect(username, password, [host], [port], [domainName], [domainDir] [nmType], [verbose])
nmConnect([userConfigFile, userKeyFile], [host], [port], [domainName], [domainDir], [nmType], [verbose])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>username</td>
<td>Username of the operator who is connecting WLST to Node Manager. Note: When running a server in production mode, you must specify the username and password explicitly on the command line to ensure that the appropriate username and password are used when connecting to Node Manager.</td>
</tr>
<tr>
<td>password</td>
<td>Password of the operator who is connecting WLST to Node Manager. Note: When running a server in production mode, you must specify the username and password explicitly on the command line to ensure that the appropriate username and password are used when connecting to Node Manager.</td>
</tr>
<tr>
<td>host</td>
<td>Optional. Host name of Node Manager. This argument defaults to <code>localhost</code>.</td>
</tr>
</tbody>
</table>
| port          | Optional. Port number of Node Manager. This argument defaults to a value that is based on the Node Manager type, as follows:  
  • For `plain` type, defaults to 5556  
  • For `rsh` type, defaults to 514  
  • For `ssh` type, defaults to 22  
  • For `ssl` type, defaults to 5556 |
| domainName    | Optional. Name of the WebLogic domain that you want to manage. This argument defaults to `mydomain`. |
### Argument | Definition
--- | ---
**domainDir** | Optional. Path or directory of the domain on the remote node. This argument defaults to the directory in which WLST was started.

**nmType** | The Node Manager type. Valid values are:
- plain for plain socket Java-based implementation
  - **Note:** If you specify plain for nmType, you must manually set the SecureListener parameter in nodemanager.properties to false. Otherwise, the nmConnect command will fail.
- rsh for RSH implementation
- ssh for script-based SSH implementation
- ssl for Java-based SSL implementation
  - This argument defaults to ssl.

**verbose** | Optional. Boolean value specifying whether WLST connects to Node Manager in verbose mode. This argument defaults to false, disabling verbose mode.

**userConfigFile** | Optional. Name and location of a user configuration file which contains an encrypted username and password. Use the following syntax: userConfigFile='file-system-path'.
  - When you create a user configuration file, the storeUserConfig command uses a key file to encrypt the username and password. Only the key file that encrypts a user configuration file can decrypt the username and password. (See storeUserConfig.)

**userKeyFile** | Optional. Name and location of the key file that is associated with the specified user configuration file and is used to decrypt it. Use the following syntax: userKeyFile='file-system-path'. (See storeUserConfig.)

### Example

The following example connects WLST to Node Manager to monitor the oamdomain domain using the default host and port numbers and plain Node Manager type.

```plaintext
wlst:/myserver/serverConfig> nmConnect('username', 'password', 'localhost', 5555, 'oamdomain', 'c:/Oracle/Middleware/user_projects/domains/oamdomain','ssl')
Connecting to Node Manager Server ...
Successfully connected to Node Manager.
wlst:/nm/oamdomain>
```

The following example connects WLST to a Node Manager Server instance using a user configuration and key file to provide user credentials.

```plaintext
wlst:/myserver/serverConfig> nmConnect(userConfigFile='c:/myfiles/myuserconfigfile_secure', userKeyFile='c:/myfiles/myuserkeyfile_secure', host='172.18.137.82', port=26106, domainName='mydomain', domainDir='c:/myfiles/mydomain', nmType='ssl')
Connecting to Node Manager Server ...
Successfully connected to Node Manager.
wlst:/nm/mydomain>
```

### 3.10.1.8 nmDisconnect

**Command Category:** Node Manager Commands
Use with WLST: Online or Offline

WLST must be connected to Node Manager to run this command.

Description

Disconnects WLST from a Node Manager session.

In the event of an error, the command returns a WLSTException.

Syntax

nmDisconnect()

Example

The following example disconnects WLST from a Node Manager session.

```
wm://nm/oamdomain> nmDisconnect()
Successfully disconnected from Node Manager
wm://myserver/serverConfig>
```

3.10.1.9 nmEnroll

Command Category: Node Manager Commands

Use with WLST: Online

Description

Enrolls the machine on which WLST is currently running. WLST must be connected to an Administration Server to run this command; WLST does not need to be connected to Node Manager.

This command downloads the following files from the Administration Server:

- Node Manager secret file (`nm_password.properties`), which contains the encrypted username and password that is used for server authentication.
- `SerializedSystemIni.dat` file.

This command also updates the `nodemanager.domains` file, under the `NodeManagerHome` directory, with the domain information. For the Java-based Node Manager, this file is typically located under `domain_home\nodemanager`. For the script-based Node Manager, this file's default location is `WL_HOME/common/nodemanager`, where `WL_HOME` is the location in which you installed WebLogic Server, for example, `ORACLE_HOME/wls/wlserver`.

You must run this command once per WebLogic domain per machine unless that domain shares the root directory of the Administration Server.

If the machine is already enrolled when you run this command, the Node Manager secret file (`nm_password.properties`) is refreshed with the latest information from the Administration Server.

In the event of an error, the command returns a WLSTException.

Syntax

```
nmEnroll([domainDir], [nmHome])
```
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>domainDir</td>
<td>Optional. Path or directory of the domain on the remote node. This argument defaults to the directory in which WLST was started.</td>
</tr>
<tr>
<td>nmHome</td>
<td>Optional. Path to the Node Manager home. The nodemanager.domains file, containing the domain information, is written to this directory. This argument defaults to ( WL_HOME )/common/nodemanager, where ( WL_HOME ) refers to the top-level installation directory for WebLogic Server.</td>
</tr>
</tbody>
</table>

### Example

The following example enrolls the current machine with Node Manager and saves the Node Manager secret file (\( nm\_password\_properties \)) and SerializedSystemIni.dat file to c:/Oracle/Middleware/mydomain/common/nodemanager/nm_password.properties. The nodemanager.domains file is written to \( WL_HOME \)/common/nodemanager by default.

```
wlst:/mydomain/serverConfig> nmEnroll('c:/Oracle/Middleware/mydomain/common/nodemanager')
Enrolling this machine with the domain directory at c:\Oracle\Middleware\mydomain\common\nodemanager....
Successfully enrolled this machine with the domain directory at C:\Oracle\Middleware\mydomain\common\nodemanager
wlst:/mydomain/serverConfig>
```

### 3.10.1.10 nmExecScript

#### Command Category: Node Manager Commands

Use with WLST: Online

WLST must be connected to Node Manager to run this command.

#### Description

Executes the named script using the connected Node Manager.

In the event of an error, the command returns a WLSTException

#### Syntax

\( \text{nmExecScript(scriptName, [scriptDir], [scriptProps], [writer], [timeout])} \)

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>scriptName</td>
<td>Name of the script to be executed. This must be the name of the script without any path information and must match with the name of the file on the disk.</td>
</tr>
<tr>
<td>scriptDir</td>
<td>Optional. Directory under the domain directory where the Node Manager can find the script. This must be one of the well known script locations. By default, the NodeManager checks the mydomain/bin/service_migration directory (where mydomain is a domain-specific directory).</td>
</tr>
<tr>
<td>scriptProps</td>
<td>Optional. Properties supplied to the script as environment variables. This argument defaults to None.</td>
</tr>
</tbody>
</table>


### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>writer</td>
<td>Optional. The java.io.Writer object to which the script output is written. This argument defaults to the WLST writer.</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. The number of milliseconds to wait for the script to finish execution. After waiting for the specified number of milliseconds, the Node Manager attempts to cancel the script process, collects any available output, and cleans up. The Node Manager returns the timeout as an error. By default, the Node Manager waits for the script to complete its execution.</td>
</tr>
</tbody>
</table>

### Example

The following example executes the script named `foo.sh` using the connected Node Manager, and waits 20000 milliseconds for the script to finish execution.

```
wls:/nm/oamdomain> nmExecScript('foo.sh', timeout=20000)
output from script
wls:/myserver/serverConfig>
```

### 3.10.1.11 nmGenBootStartupProps

**Command Category:** Node Manager Commands  
**Use with WLST:** Online

**Description**
Generates the Node Manager properties files, `boot.properties` and `startup.properties`, for the specified server. The Node Manager properties files are stored relative to the root directory of the specified server. The target root directory must be on the same machine on which you are running the command.

You must specify the name of a server; otherwise, the command will fail.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
nmGenBootStartupProps(serverName)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverName</td>
<td>Name of the server for which Node Manager property files are generated.</td>
</tr>
</tbody>
</table>

### Example

The following example generates `boot.properties` and `startup.properties` in the root directory of the specified server, `ms1`.

```
wls:/mydomain/serverConfig> nmGenBootStartupProps('ms1')
Successfully generated boot.properties at c:\Oracle\Middleware\mydomain\servers\ms1\data\nodemanager\boot.properties
Successfully generated startup.properties at c:\Oracle\Middleware\mydomain\servers\ms1\data\nodemanager\startup.properties
wls:/mydomain/serverConfig>
```
3.10.1.12 nmKill

Command Category: Node Manager Commands
Use with WLST: Online or Offline
WLST must be connected to Node Manager to run this command.

Description
Kills the specified server instance that was started with Node Manager.
If you do not specify a server name using the `serverName` argument, the argument defaults to `myServer`, which must match your server name or the command will fail.
If you attempt to kill a server instance that was not started using Node Manager, the command displays an error.
In the event of an error, the command returns a `WLSTException`.

Syntax

```
nmKill([serverName], [serverType], [pluginProps])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>serverName</code></td>
<td>Optional. Name of the server to be killed. This argument defaults to <code>myserver</code>.</td>
</tr>
<tr>
<td><code>serverType</code></td>
<td>Optional. The type of server to kill. This argument defaults to <code>WebLogic</code>. Another valid option is <code>Coherence</code>.</td>
</tr>
<tr>
<td><code>pluginProps</code></td>
<td>Optional. The properties to use to kill the server. Defaults to <code>None</code>. Only relevant to plugin-handling system components.</td>
</tr>
</tbody>
</table>

Example
The following example kills the server named `oamserver`.

```
[wls:/nm/oamdomain> nmKill('oamserver')
Killing server 'oamserver' ...
Server oamServer killed successfully.
[wls:/nm/oamdomain>
```

3.10.1.13 nmLog

Command Category: Node Manager Commands
Use with WLST: Online or Offline
WLST must be connected to Node Manager to run this command.

Description
Returns the Node Manager log.
In the event of an error, the command returns a `WLSTException`. 
Syntax

nmLog([writer])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>writer</td>
<td>Optional. java.io.Writer object to which you want to stream the log output. This argument defaults to the WLST writer stream.</td>
</tr>
</tbody>
</table>

Example

The following example displays the Node Manager log.

wls:/nm/oamdomain> nmLog()
Successfully retrieved the Node Manager log and written.
wls:/nm/oamdomain>

3.10.1.14 nmRestart

Command Category: Node Manager Commands

Use with WLST: Online

WLST must be connected to Node Manager to run this command.

Description

Restarts the connected Node Manager instance.

In the event of an error, the command returns a WLSTException.

Note:

If Node Manager is started by any means other than the startNodeManager script, the use of the nmRestart WLST command to restart Node Manager is not supported. If Node Manager is started from a custom script, or by the java weblogic.NodeManager command, using the nmRestart command may subsequently fail.

Syntax

nmRestart([timeout])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>timeout</td>
<td>Optional. The number of milliseconds that WLST waits for the client to reconnect to the NodeManager after restart. Once the number of specified milliseconds has been exceeded, the command returns an error indicating timeout. By default, the command blocks until the client has successfully connected to the restarted Node Manager.</td>
</tr>
</tbody>
</table>

Example

The following example specifies the timeout and restarts the Node Manager instance.
3.10.1.15 nmServerLog

Command Category: Node Manager Commands
Use with WLST: Online or Offline
WLST must be connected to Node Manager to run this command.

Description

Returns the server output log of the server that was started with Node Manager.
In the event of an error, the command returns a WLSTException.

Syntax

nmServerLog([serverName], [writer], [serverType])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverName</td>
<td>Optional. Name of the server for which you want to display the server output log. This argument defaults to myserver.</td>
</tr>
<tr>
<td>writer</td>
<td>Optional. java.io.Writer object to which you want to stream the log output. This argument defaults to the WLSTInterpreter standard out, if not specified.</td>
</tr>
<tr>
<td>serverType</td>
<td>Optional. The type of server to start. This argument defaults to WebLogic. Another valid option is Coherence.</td>
</tr>
</tbody>
</table>

Example

The following example displays the server output log for the oamserver server and writes the log output to myWriter.

wls:/nm/oamdomain> nmServerLog('oamserver',myWriter)
Successfully retrieved the server log and written.

3.10.1.16 nmServerStatus

Command Category: Node Manager Commands
Use with WLST: Online or Offline
WLST must be connected to Node Manager to run this command.

Description

Returns the status of the server that was started with Node Manager.
In the event of an error, the command returns a WLSTException.

Syntax

nmServerStatus([serverName], [serverType])
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverName</td>
<td>Optional. Name of the server for which you want to display the status. This argument defaults to <code>myServer</code>.</td>
</tr>
<tr>
<td>serverType</td>
<td>Optional. The type of server to start. This argument defaults to <code>WebLogic</code>. Another valid option is <code>Coherence</code>.</td>
</tr>
</tbody>
</table>

### Example

The following example displays the status of the server named `oamServer`, which was started with Node Manager.

```plaintext
wls:/nm/oamdomain> nmServerStatus('oamServer')
RUNNING
wls:/nm/oamdomain>
```

### 3.10.1.17 nmSoftRestart

#### Command Category: Node Manager Commands

Use with WLST: Online or Offline

#### Description

Restarts the specified system component server instance that was started with Node Manager. This command can be used only with Oracle system components (such as OHS) that are currently supported by Node Manager and WLST.

If you do not specify a server name using the `serverName` argument, the argument defaults to `myServer`, which must match your server name or the command will fail.

If you attempt to restart a system component server instance that was not started using Node Manager, the command displays an error. WLST must be connected to Node Manager to run this command.

In the event of an error, the command returns a `WLSTException`.

#### Syntax

```plaintext
nmSoftRestart([serverName], serverType, [pluginProps])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverName</td>
<td>Optional. Name of the system component server to be restarted. Defaults to <code>myServer</code>.</td>
</tr>
<tr>
<td>serverType</td>
<td>Required. The type of server to start (for example, OHS). Refer to the Administration Guide or other documentation for the system component to determine the appropriate value to use for this argument.</td>
</tr>
<tr>
<td>pluginProps</td>
<td>Optional. The properties to use to kill the server. Defaults to <code>None</code>. Only relevant to plugin-handling system components.</td>
</tr>
</tbody>
</table>

#### Example

The following example starts a System Component server instance named `ohsServer`.

```plaintext
wls:/nm/oamdomain>
```
3.10.1.18 nmStart

Command Category: Node Manager Commands

Use with WLST: Online or Offline

WLST must be connected to Node Manager to run this command.

Description

Starts a server in the current WebLogic domain using Node Manager.

In the event of an error, the command returns a WLSTException.

Note:

boot.properties must exist in order to start a server with nmStart. If this is the first time you are starting a server or the first time you are using Node Manager, you must manually create it or run the nmGenBootStartupProps command to generate boot.properties and startup.properties files for the server.

Alternatively, you can use the nmStartprops argument to provide user credentials (after connecting to Node Manager):

```java
prps = makePropertiesObject("AdminURL=http://listen_address:listen_port;Username=username;Password=password")
nmStart("managed1",props=prps)
```

Syntax

```java
nmStart([serverName], [domainDir], [props], [writer], [serverType], [pluginProps])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>serverName</td>
<td>Optional. Name of the server to be started.</td>
</tr>
<tr>
<td>domainDir</td>
<td>Optional. Domain directory of the server to be started. This argument defaults to the directory from which you started WLST.</td>
</tr>
<tr>
<td>props</td>
<td>Optional. System properties to apply to the new server.</td>
</tr>
<tr>
<td>writer</td>
<td>Optional. java.io.Writer object to which the server output is written. This argument defaults to the WLST writer.</td>
</tr>
<tr>
<td>serverType</td>
<td>Optional. The type of server to start. This argument defaults to WebLogic. Another valid option is Coherence.</td>
</tr>
<tr>
<td>pluginProps</td>
<td>Optional. The properties to use to start the server. Defaults to None. Only relevant to plugin-handling system components.</td>
</tr>
</tbody>
</table>
Example

The following example starts the managed1 server in the current WebLogic domain using Node Manager. In this example, the prps variable stores the system property settings and is passed to the command using the props argument.

```wls/nm/mydomain> prps = makePropertiesObject("AdminURL=http://listen_address:listen_port;Username=username;Password=password;weblogic.ListenPort=8001")
wls/nm/mydomain> nmStart("managed1",props=prps)
Starting server managed1 ...
Server managed1 started successfully
wls/nm/mydomain>
```

The following example starts the Administration Server in the specified WebLogic domain using Node Manager.

```wls/nm/mydomain> nmStart("AdminServer")
Starting server AdminServer...
Server AdminServer started successfully
wls/nm/mydomain>
```

3.10.1.19 nmVersion

Command Category: Node Manager Commands

Use with WLST: Online or Offline

WLST must be connected to Node Manager to run this command.

Description

Returns the Node Manager version.

In the event of an error, the command returns a WLSTException.

Syntax

`nmVersion()`

Example

The following example displays the Node Manager version.

```wls/nm/oamdomain> nmVersion()
The Node Manager version that you are currently connected to is 9.0.0.0
wls/nm/oamdomain>
```

3.10.1.20 startNodeManager

Command Category: Node Manager Commands

Use with WLST: Online or Offline

Description

Starts Node Manager on the same computer that is running WLST.
Note:

In production environments, Oracle recommends that you do not use the startNodeManager command to start Node Manager. The recommended approach is to install Node Manager as a service or daemon, or to use the startNodeManager script (startNodeManager.sh or startNodeManager.cmd).

If Node Manager is already running when you invoke the startNodeManager command, the following message is displayed:

A Node Manager has already been started. Cannot start another Node Manager process via WLST

In the event of an error, the command returns a WLSTException.

Syntax

```java
startNodeManager([verbose], [block], [timeout], [jvmArgs], [nmProperties], [nmConnectionOptions])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>verbose</td>
<td>Optional. Boolean value specifying whether WLST starts Node Manager in verbose mode. This argument defaults to false, disabling verbose mode.</td>
</tr>
<tr>
<td>block</td>
<td>Optional. A boolean value that specifies whether WLST should block until it successfully connects to the NodeManager or fails to connect to NodeManager within the time specified by the timeout argument. This option defaults to false. When this option is set to true, you must provide the username, password, host, port, domain name, and Node Manager type to use for nmConnect.</td>
</tr>
<tr>
<td>timeout</td>
<td>Optional. Number of milliseconds to wait for WLST to connect to the NodeManager. This option defaults to 120000 milliseconds.</td>
</tr>
<tr>
<td>jvmArgs</td>
<td>Optional. JVM arguments to pass to the server process. Multiple arguments can be specified, separated by commas. See below for a usage example for this argument.</td>
</tr>
<tr>
<td>nmProperties</td>
<td>Optional. Comma-separated list of Node Manager properties, specified as name-value pairs. Node Manager properties include, but are not limited to, the following: NodeManagerHome, ListenAddress, ListenPort, and PropertiesFile.</td>
</tr>
<tr>
<td>nmConnectionOptions</td>
<td>Optional when block is false and required when block is true. A comma-separated list of nmConnect options. The following arguments are required: username, password, host, port, and domainName. The following arguments are optional: domainDir and nmType</td>
</tr>
</tbody>
</table>

Example

The following example starts Node Manager using C:/Oracle/Middleware/wlserver/common/nodemanager as the Node Manager home and port 6666 as the Node Manager listen address on myhost. The JVM arguments set the JVM starting and maximum memory for Node Manager.
Launching Node Manager ...
Successfully launched the Node Manager.
The Node Manager process is running independent of the WLST process Exiting WLST will not stop the Node Manager process. Please refer to the Node Manager logs for more information.
The Node Manager logs will be under c:\Oracle\Middleware\wlserver\common\nodemanager.

3.10.1.21 stopNodeManager

Command Category: Node Manager Commands
Use with WLST: Online or Offline

Description
Stops the Node Manager process.

Note:
In order to stop the Node Manager process, you must have either started Node Manager with startNodeManager, or Node Manager must have been started with the property QuitEnabled=true. You can configure this property in $WLS_HOME/common/nodemanager.properties. This allows you to connect to the Node Manager to shut it down.

If the Node Manager is not running when you invoke the stopNodeManager command, the following message is displayed:
Cannot stop the Node Manager unless you are connected to it.

Syntax
stopNodeManager()

Example
The following example stops the Node Manager process for the base_domain domain.

Stopped Node Manager Process successfully
3.11.1 Tree Commands

Use the WLST tree commands to navigate among MBean hierarchies. Table 3-12 lists and summarizes these commands.

Table 3-12  Tree Commands for WLST Configuration

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>custom</td>
<td>Navigate to the root of custom MBeans that are registered in the server.</td>
<td>Online</td>
</tr>
<tr>
<td>domainConfig</td>
<td>Navigate to the last MBean to which you navigated in the domain configuration hierarchy or to the root of the hierarchy, DomainMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>domainCustom</td>
<td>Navigate to the root of custom MBeans that are registered in the Domain Runtime MBean Server</td>
<td>Online</td>
</tr>
<tr>
<td>domainRuntime</td>
<td>Navigate to the last MBean to which you navigated in the domain runtime hierarchy or to the root of the hierarchy, DomainRuntimeMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>edit</td>
<td>Navigate to the last MBean to which you navigated in the edit configuration MBean hierarchy or to the root of the hierarchy, DomainMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>editCustom</td>
<td>Navigate to the root of custom MBeans.</td>
<td>Online</td>
</tr>
<tr>
<td>jndi</td>
<td>Navigates to the JNDI tree for the server to which WLST is currently connected.</td>
<td>Online</td>
</tr>
<tr>
<td>serverConfig</td>
<td>Navigate to the last MBean to which you navigated in the configuration MBean hierarchy or to the root of the hierarchy, DomainMBean.</td>
<td>Online</td>
</tr>
<tr>
<td>serverRuntime</td>
<td>Navigate to the last MBean to which you navigated in the runtime MBean hierarchy or to the root of the hierarchy, ServerRuntimeMBean.</td>
<td>Online</td>
</tr>
</tbody>
</table>

3.11.1.1 custom

Command Category: Tree Commands

Use with WLST: Online

Description

Navigates to the root of custom MBeans that are registered in the Runtime MBean Server. WLST navigates, interrogates, and edits custom MBeans as it does domain MBeans; however, custom MBeans cannot use the cmo variable because a stub is not available.
When navigating to the custom tree, WLST queries all MBeans in the compatibility MBean server, the runtime MBean server, and potentially the JVM platform MBean server to locate the custom MBeans. Depending on the number of MBeans in the current WebLogic domain, this process may take a few minutes, and WLST may not return a prompt right away. Oracle recommends that you specify a JMX query Object Name Pattern to limit the amount of searching performed.

The custom command is available when WLST is connected to an Administration Server instance or a Managed Server instance. When connected to a WebLogic Integration or WebLogic Portal server, WLST can interact with all of the WebLogic Integration or WebLogic Portal server MBeans.

See Instrumenting and Registering Custom MBeans in Developing Manageable Applications Using JMX for Oracle WebLogic Server.

In the event of an error, the command returns a WLSTException.

You can also navigate to custom MBeans on the Domain Runtime MBean Server using the domainCustom() command. See domainCustom.

Syntax

custom([objectNamePattern])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
</table>
| ObjectNamePattern | A JMX query pattern, such as sip:*. The default value is null or *:*.

Example

The following example navigates from the configuration MBean hierarchy to the custom MBean hierarchy on an Administration Server instance.

wls:/mydomain/serverConfig> custom()
Location changed to custom tree. This is a writeable tree with No root. For more help, use help('custom')
wls:/mydomain/custom>

3.11.1.2 domainConfig

Command Category: Tree Commands
Use with WLST: Online
Description

Navigates to the last MBean to which you navigated in the domain Configuration hierarchy or to the root of the hierarchy, DomainMBean. This read-only hierarchy stores the configuration MBeans that represent your current WebLogic domain.

In the event of an error, the command returns a WLSTException.

Syntax

domainConfig()

Example

The following example navigates from the configuration MBean hierarchy to the WebLogic domain Configuration hierarchy on an Administration Server instance.

```
wls:/mydomain/serverConfig> domainConfig()
Location changed to domainConfig tree. This is a read-only tree with DomainMBean as the root.
For more help, use help('domainConfig')
wls:/mydomain/domainConfig>
```

```
dl>
dr-- AppDeployments
dr-- BridgeDestinations
dr-- Clusters
dr-- CustomResources
dr-- DeploymentConfiguration
dr-- Deployments
dr-- EmbeddedLDAP
dr-- ErrorHandlings
dr-- FileStores
dr-- InternalAppDeployments
dr-- InternalLibraries
dr-- JDBCDataSourceFactories
dr-- JDBCStores
dr-- JDBCSystemResources
dr-- JMSBridgeDestinations
dr-- JMSInteropModules
dr-- JMSservers
dr-- JNSSystemResources
...
wls:/mydomain/domainConfig>
```

3.11.1.3 domainCustom

Command Category: Tree Commands

Use with WLST: Online

Description

Navigates to the domain custom tree of custom MBeans that are registered in the Domain Runtime MBean Server. WLST navigates, interrogates, and edits domain custom MBeans as it does domain MBeans; however, domain custom MBeans cannot use the cmo variable because a stub is not available.
**Note:**

When navigating to the domainCustom tree, WLST queries all MBeans in the Domain Runtime MBean Server, the Runtime MBean Servers on each server, and potentially the JVM platform MBean server to locate the custom MBeans. Depending on the number of MBeans in the current WebLogic domain, this process may take a few minutes, and WLST may not return a prompt right away. Oracle recommends that you specify a JMX query Object Name Pattern to limit the amount of searching performed.

The `domainCustom` command is available only when WLST is connected to an Administration Server instance.

See Understanding WebLogic Server MBeans in *Developing Custom Management Utilities Using JMX for Oracle WebLogic Server*.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

`domainCustom(ObjectNamePattern)`

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectNamePattern</td>
<td>A JMX query pattern, such as sip:* . The default value is null or <em>:</em> .</td>
</tr>
</tbody>
</table>

**Example**

The following example navigates from the configuration MBean hierarchy to the domain custom MBean hierarchy on an Administration Server instance:

```
> wls:/mydomain/serverConfig> domainCustom()
Location changed to domain custom tree. This is a writeable tree with No root. For more help, use help('domainCustom').

> wls:/mydomain/domainCustom
```

### 3.11.1.4 domainRuntime

**Command Category:** Tree Commands

**Use with WLST:** Online

**Description**

Navigates to the last MBean to which you navigated in the domain Runtime hierarchy or to the root of the hierarchy, DomainRuntimeMBean. This read-only hierarchy stores the runtime MBeans that represent your current WebLogic domain.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

`domainRuntime()`
Example

The following example navigates from the configuration MBean hierarchy to the domain Runtime hierarchy on an Administration Server instance.

```
wlst:/mydomain/serverConfig> domainRuntime()
wlst:/mydomain/domainRuntime> ls()
```

```
- dr-- AppRuntimeStateRuntime
- dr-- DeployerRuntime
- dr-- DomainServices
- dr-- LogRuntime
- dr-- MessageDrivenControlEJBRuntime
- dr-- MigratableServiceCoordinatorRuntime
- dr-- MigrationDataRuntimes
- dr-- SNMPAgentRuntime
- dr-- ServerLifeCycleRuntimes
- dr-- ServerRuntimes
- dr-- ServerServices
```

```
-r-- ActivationTime Mon Aug 01 11:41:25 EDT 2005
-r-- Clusters null
-r-- MigrationDataRuntimes null
-r-- Name sampleMedRecDomain
-rw- Parent null
-r-- SNMPAgentRuntime null
-r-- Type DomainRuntime
-r-x restartSystemResource Void :
```

```
WebLogicMBean(weblogic.management.configuration.SystemResourceMBean)
wlst:/mydomain/domainRuntime>
```

3.11.1.5 edit

Command Category: Tree Commands

Use with WLST: Online

Description

Navigates to the last MBean to which you navigated in the edit configuration MBean hierarchy or to the root of the hierarchy, DomainMBean. This writable hierarchy stores all of the configuration MBeans that represent your current WebLogic domain.

Note:

To edit configuration beans, you must be connected to an Administration Server. If you connect to a Managed Server, WLST functionality is limited to browsing the configuration bean hierarchy. While you cannot use WLST to change the values of MBeans on Managed Servers, it is possible to use the Management APIs to do so. Oracle recommends that you change only the values of configuration MBeans on the Administration Server. Changing the values of MBeans on Managed Servers can lead to an inconsistent domain configuration.

See Using WLST Online to Update an Existing Domain in Understanding the WebLogic Scripting Tool.
In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
edit([editSessionName])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>editSessionName</code></td>
<td>Optional. The name of the edit session to the context of which you want to navigate. In case an edit session with the specified name does not exist, it gets automatically created. If this argument is not specified, the default edit session is used.</td>
</tr>
</tbody>
</table>

**Example**

The following example illustrates how to navigate from the server configuration MBean hierarchy to the editable copy of the domain configuration MBean hierarchy, in an Administration Server instance. It then calls out the name of a specific edit session, `mySample`. Since this edit session does not exist, it is automatically created with the specified name.

```
wls:/myserver/serverConfig> edit()
Location changed to edit tree. This is a writeable tree with DomainMBean as the root. To make changes you will need to start an edit session via startEdit().
For more help, use help('edit')
wls:/wls/edit> edit('mySample')
Edit session mySample does not exist. Creating.
wls:/wls/edit(mySample)>
```

### 3.11.1.6 editCustom

**Command Category:** Browse Commands

**Use with WLST:** Online

**Description**

Navigates to the root of custom MBeans that are registered in the Edit MBeanServer. WLST navigates, interrogates, and edits custom MBeans; however, MBeans that are accessed using the `editCustom` command cannot use the `cmo` variable because a stub is not available.

The `editCustom` command is available when WLST is connected to an Administration Server instance.

See Accessing Other WebLogic MBeans and Custom MBeans in *Understanding the WebLogic Scripting Tool*.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

```
editCustom([ObjectNamePattern])
```
### Argument Definition

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectNamePattern</td>
<td>Optional. A JMX query pattern such as &quot;sip:<em>&quot;. The default value is &quot;</em>:*&quot;, or null.</td>
</tr>
</tbody>
</table>

### Example

The following example changes the location to the `editCustom` tree. This is a writable tree with no root.

```
wlst:/mydomain/serverConfig> editCustom()
wls:/mydomain/editCustom>
```

### 3.11.1.7 jndi

**Command Category: Tree Commands**

**Use with WLST: Online**

**Description**

Navigates to the JNDI tree for the server to which WLST is currently connected. This read-only tree holds all the elements that are currently bound in JNDI.

In the event of an error, the command returns a `WLSTException`.

**Syntax**

`jndi()`

**Example**

The following example navigates from the runtime MBean hierarchy to the Domain JNDI tree on an Administration Server instance.

```
wlst:/myserver/runtime> jndi()
Location changed to jndi tree. This is a read-only tree with No root. For more help, use help('jndi')
wls:/myserver/jndi> ls()
dr-- ejb
dr-- javax
dr-- jms
dr-- weblogic
...
```

### 3.11.1.8 serverConfig

**Command Category: Tree Commands**

**Use with WLST: Online**

**Description**

Navigates to the last MBean to which you navigated in the configuration MBean hierarchy or to the root of the hierarchy, `DomainMBean`. 
This read-only hierarchy stores the configuration MBeans that represent the server to which WLST is currently connected. The MBean attribute values include any command-line overrides that a user specified while starting the server.

In the event of an error, the command returns a WLSTException.

See Navigating Among MBean Hierarchies in Understanding the WebLogic Scripting Tool.

Syntax

serverConfig()

Example

The following example navigates from the domain runtime MBean hierarchy to the configuration MBean hierarchy on an Administration Server instance.

wls:/mydomain/domainRuntime> serverConfig()
wls:/mydomain/serverConfig>

3.11.1.9 serverRuntime

Command Category: Tree Commands

Use with WLST: Online

Description

Navigates to the last MBean to which you navigated in the runtime MBean hierarchy or to the root of the hierarchy, ServerRuntimeMBean. This read-only hierarchy stores the runtime MBeans that represent the server to which WLST is currently connected.

In the event of an error, the command returns a WLSTException.

Syntax

serverRuntime()

Example

The following example navigates from the configuration MBean hierarchy to the runtime MBean hierarchy on an Administration Server instance.

wls:/mydomain/serverConfig> serverRuntime()
Location changed to serverRuntime tree. This is a read-only tree with ServerRuntimeMBean as the root.
For more help, use help('serverRuntime')
wls:/mydomain/serverRuntime>

3.12.1 Store Administration Commands

Use the WLST store administration commands to manage JDBC stores and file stores. Table 3-13 lists and summarizes these commands. For more information about these
commands, see Store Administration Using WLST in *Administering the WebLogic Persistent Store*.

### Table 3-13 Store Administration Commands

<table>
<thead>
<tr>
<th>Use this command...</th>
<th>To...</th>
<th>Use with WLST...</th>
</tr>
</thead>
<tbody>
<tr>
<td>closestore</td>
<td>Closes a store.</td>
<td>Offline</td>
</tr>
<tr>
<td>compactstore</td>
<td>Compacts and defragments the space occupied by a file store.</td>
<td>Offline</td>
</tr>
<tr>
<td>dumpstore</td>
<td>Dumps store contents in human-readable format to an XML file.</td>
<td>Offline</td>
</tr>
<tr>
<td>getopenstores</td>
<td>Returns a list of opened stores (for script access).</td>
<td>Offline</td>
</tr>
<tr>
<td>getstoreconns</td>
<td>Returns a list of connections in the specified store (for script access).</td>
<td>Offline</td>
</tr>
<tr>
<td>liststore</td>
<td>Lists store names, open stores or connections in a store.</td>
<td>Offline</td>
</tr>
<tr>
<td>openfilestore</td>
<td>Opens a file store.</td>
<td>Offline</td>
</tr>
<tr>
<td>openjdbcstore</td>
<td>Opens a JDBC store.</td>
<td>Offline</td>
</tr>
</tbody>
</table>

### 3.12.1.1 closestore

Command Category: Store Administration

Use with WLST: Offline

**Description**

Closes a previously opened file store or JDBC store. This command returns 1 when successful or a 0 if there is a failure.

**Syntax**

```
closestore(store)
```

**Argument Definition**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>store</td>
<td>The name of a previously opened JDBC or file store.</td>
</tr>
</tbody>
</table>

**Example**

The following example closes a JDBC store called `myJDBCStore`.

```
wls:/offline> closestore('myJDBCStore')
```

### 3.12.1.2 compactstore

Command Category: Store Administration

Use with WLST: Offline
Description

Compacts and defragments the space occupied by a file store. This command only works in WLST offline mode and does not work for JDBC stores. This command returns a 1 if successful or a 0 if there is a failure.

**Note:**

Running file stores are optimized for speed without regard for space. Therefore, running compact will reduce the stores size and utilize its allocated space more efficiently.

Syntax

```
compactstore(dir, [tempdir])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>dir</td>
<td>A directory that contains a file store.</td>
</tr>
<tr>
<td>tempdir</td>
<td>Optional. A temporary directory to be used during compacting. This directory should not be under the specified file store directory and must have space sufficient for the file store.</td>
</tr>
</tbody>
</table>

Example

The following example compacts the space occupied by file store files in the `mystores` directory:

```
wls:/offline> compactstore('/mystores', '/tmpmystore.dir')
```

### 3.12.1.3 dumpstore

Command Category: Store Administration

Use with WLST: Offline

Description

Dumps store or connection contents in a human-readable format to the specified XML file. The XML file format is the same format used by the diagnostic image of the persistent store. This command returns a 1 if successful or a 0 if there is a failure.

Syntax

```
dumpstore(store, outfile, [conn], [deep])
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>store</td>
<td>The name of a previously opened JDBC or file store.</td>
</tr>
<tr>
<td>Argument</td>
<td>Definition</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
</tr>
<tr>
<td>outfile</td>
<td>The name of the XML file to dump the information to, with or without the .xml suffix.</td>
</tr>
<tr>
<td>conn</td>
<td>Optional. Store connection name to which the dump should be restricted.</td>
</tr>
<tr>
<td>deep</td>
<td>Optional. If true, store record data contents are added as a hex dump to the dump output. This argument defaults to false.</td>
</tr>
</tbody>
</table>

Example

The following example dumps the contents of myJDBCStore to the file mystoredump-out.xml:

```bash
wls:/offline> dumpstore('myJDBCStore', 'mystoredump-out')
```

3.12.1.4 getopenstores

Command Category: Store Administration

Use with WLST: Offline

Description

Returns a list of opened stores (for script access). This command returns a 1 if successful or a 0 if there is a failure.

Syntax

```java
getopenstores()
```

Example

The following example returns a list of open stores:

```bash
wls:/offline> getopenstores()
array(java.lang.String,[])
```

3.12.1.5 getstoreconns

Command Category: Store Administration

Use with WLST: Offline

Description

Returns a list of connections in the specified store (for script access). This command returns a 1 if successful or a 0 if there is a failure.

Syntax

```java
getstoreconns(store)
```
3.12.1.6 liststore

Command Category: Store Administration

Use with WLST: Offline

Description

Lists storenames, opened stores, or connections (for interactive access). This command returns a 1 if successful or a 0 if there is a failure.

Syntax

liststore([store], [dir])

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>store</td>
<td>Optional. The name of a previously opened JDBC or file store.</td>
</tr>
<tr>
<td>dir</td>
<td>Optional. The directory for which to list available store names.</td>
</tr>
</tbody>
</table>

Example

The following example lists the connections for a JDBC store called myJDBCStore:

wls:/offline> liststore('myJDBCStore')
array(java.lang.String,[])

3.12.1.7 openfilestore

Command Category: Store Administration

Use with WLST: Offline

Description

Opens an existing file store for further operations. If a file store does not exist, a new one is created in an open state using the -create parameter. This command returns a 1 if successful or a 0 if there is a failure.

Syntax

openfilestore(store, [dir], [create])
<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>store</td>
<td>The name of the store to be opened.</td>
</tr>
<tr>
<td>dir</td>
<td>Optional. The name of a file system directory containing store files. This argument defaults to '.'.</td>
</tr>
<tr>
<td>create</td>
<td>Optional. If set to true, the command creates a non-existing file store. The default value is false.</td>
</tr>
</tbody>
</table>

**Example**

The following example creates a file store called myJDBCStore:

```
wis:/offline> openfilestore('myJDBCStore', '', 'true')
```

### 3.12.1.8 openjdbcstore

**Command Category:** Store Administration

**Use with WLST:** Offline

**Description**

Opens an existing JDBC store for further operations. If a JDBC store does not exist, a new one is created in an open state. This command returns a 1 if successful or a 0 if there is a failure.

**Syntax**

```
openjdbcstore(store, [driver], [url], [propfile], [user], [password], [ddl], tableNamePrefix)
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>store</td>
<td>The name of the store to open.</td>
</tr>
<tr>
<td>driver</td>
<td>Optional. The name of the JDBC driver class. This argument defaults to null.</td>
</tr>
<tr>
<td>url</td>
<td>Optional. URL to connect to the database.</td>
</tr>
<tr>
<td>propfile</td>
<td>Optional. JDBC properties file. This argument defaults to null.</td>
</tr>
<tr>
<td>user</td>
<td>Optional. The user name for accessing the database. This argument defaults to null.</td>
</tr>
<tr>
<td>password</td>
<td>Optional. The password for accessing the database. This argument defaults to null.</td>
</tr>
<tr>
<td>ddl</td>
<td>Optional. The name of the DDL file that defines the database table format. This argument defaults to null.</td>
</tr>
<tr>
<td>tableNamePrefix</td>
<td>Optional. The prefix for the naming database table. This argument defaults to null.</td>
</tr>
</tbody>
</table>
Example

The following example opens the JDBC store `myJDBCStore`. No DDL file is specified.

```
wlst:offline> openjdbcstore('myJDBCStore', 'oracle.jdbc.OracleDriver',
                          'jdbc:oracle:thin:@test231:1521:test123', './wlstoreadmin-dump.props',
                          'dbuser', 'dbpw', '', 'jdbcstoreprefix')
```

## 3.13.1 WLST Variable Reference

WLST includes a set of variables that you can use in WLST sessions. All variables, listed and described in Table 3-14, are initialized to default values at the start of a user session and are changed according to the user interaction with WLST.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
</table>
| cmgr           | The `cmgr` variable is set to the `ConfigurationManagerMBean`. You can use this variable to get the current value of any `ConfigurationManagerMBean` attribute. | `wls:/mydomain/edit>`
|                |                                                                           | `cmgr.getCurrentEditor()`                                                |
|                |                                                                           | `weblogic`                                                              |
| cmo            | Current Management Object. The `cmo` variable is set to the bean instance to which you navigate using WLST. You can use this variable to perform any `get`, `set`, or `invoke` method on the current bean instance. WLST sets the variable to the current WLST path. For example, when you change to the serverConfig hierarchy, `cmo` is set to DomainMBean. When you change to the serverRuntime hierarchy, `cmo` is set to ServerRuntimeMBean. The variable is available in all WLST hierarchies except custom and jndi. | `wls:/mydomain/edit>`
|                |                                                                           | `cmo.setAdministrationPort(9092)`                                      |
| connected      | Boolean value specifying whether WLST is connected to a running server. WLST sets this variable to `true` when connected to a running server; otherwise, WLST sets it to `false`. | `wls:/mydomain/serverConfig>`
|                |                                                                           | `print connected` `false`                                               |
| domainName     | Name of the WebLogic domain to which WLST is connected.                   | `wls:/mydomain/serverConfig>`
|                |                                                                           | `print domainName` `mydomain`                                           |
| domainRuntimeService | DomainRuntimeServiceMBean MBean. This variable is available only when WLST is connected to the Administration Server. | `wls:/mydomain/serverConfig>`
|                |                                                                           | `domainRuntimeService.getServerName()` `myserver`                      |
| editService    | EditServiceMBean MBean. This variable is available only when WLST is connected to the Administration Server. | `wls:/mydomain/edit>`
|                |                                                                           | `dc = editService.getDomainConfiguration()`                             |
Table 3-14  (Cont.) WLST Variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>exitonerror</td>
<td>Boolean value specifying whether WLST terminates script execution when it encounters an exception. This variable defaults to true, indicating that script execution is terminated when WLST encounters an error. This variable is not applicable when running WLST in interactive mode.</td>
<td>wls:/mydomain/serverConfig&gt; print exitonerror true</td>
</tr>
<tr>
<td>home</td>
<td>Represents the local MBeanHome.</td>
<td>wls:/mydomain/serverConfig&gt; print home weblogic.rmi.internal.BasicRemoteRef - hostID: '-hostID: [7001,7001,-1,-1,-1,-1,-1]:mydomain:AdminServer', oid: '260', channel: 'null'</td>
</tr>
<tr>
<td>idd</td>
<td>The identity domain of the user who is currently connected to WLST.</td>
<td>wls:/mydomain/serverConfig&gt; print idd dbUsers</td>
</tr>
<tr>
<td>isAdminServer</td>
<td>Boolean value specifying whether WLST is connected to a WebLogic Administration Server instance. WLST sets this variable to true if WLST is connected to a WebLogic Administration Server; otherwise, WLST sets it to false.</td>
<td>wls:/mydomain/serverConfig&gt; print isAdminServer true</td>
</tr>
<tr>
<td>mbs</td>
<td>MBeanServerConnection object that corresponds to the current location in the hierarchy.</td>
<td>wls:/mydomain/serverConfig&gt; mbs.isRegistered(ObjectName('mydomain:Name=mydomain,Type=Domain'))</td>
</tr>
<tr>
<td>recording</td>
<td>Boolean value specifying whether WLST is recording commands. WLST sets this variable to true when the startRecording command is entered; otherwise, WLST sets this variable to false.</td>
<td>wls:/mydomain/serverConfig&gt; print recording true</td>
</tr>
<tr>
<td>runtimeService</td>
<td>RuntimeServiceMBean MBean.</td>
<td>wls:/mydomain/serverConfig&gt; sr=runtimeService.getServerRuntime()</td>
</tr>
<tr>
<td>serverName</td>
<td>Name of the server to which WLST is connected.</td>
<td>wls:/mydomain/serverConfig&gt; print serverName myserver</td>
</tr>
<tr>
<td>typeService</td>
<td>TypeServiceMBean MBean.</td>
<td>wls:/mydomain/serverConfig&gt; mi=typeService.getMBeanInfo('weblogic.management.configuration.ServerMBean')</td>
</tr>
<tr>
<td>username</td>
<td>Name of user currently connected to WLST.</td>
<td>wls:/mydomain/serverConfig&gt; print username weblogic</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Example</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>---------</td>
</tr>
</tbody>
</table>
| version  | Current version of the running server to which WLST is connected. | `wls:/mydomain/serverConfig> print version`  
          |                 | WebLogic Server 9.0 Thu Aug 31  
          |                 | 12:15:50 PST 2005 778899 |