BEA WebLogic Platform™

Configuration Wizard Template Reference

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BEA WebLogic Platform Configuration Wizard Template Reference

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About This Document

This document describes each preconfigured template available through the Configuration Wizard. This document describes each template and provides reference information to assist you in creating a WebLogic Platform domain. This document is organized as follows:

- Chapter 1, "Overview of Configuration Wizard Templates" describes a table of the preconfigured templates and the related WebLogic Platform component to which it is associated.
- Chapter 2, "WLS Domain Template" describes reference information for the WLS Domain template.
- Chapter 3, "WLS Examples Domain Template" describes reference information for the WLS Examples Domain template.
- Chapter 4, "WLS Petstore Domain Template" describes reference information for the WLS Petstore Domain template.
- Chapter 5, "WebLogic Workshop Domain Template" describes reference information for the WebLogic Workshop Domain template.
- Chapter 6, "Platform Domain Template" describes reference information for the Platform Domain template. This template is only available when all of the WebLogic Platform components are installed.
- Chapter 7, "WLI Domain Template" describes reference information for the WLI Domain template. This template is only available when the WebLogic Integration component is installed.
- Chapter 8, "EAI Domain Template" describes reference information for the WLI EAI Domain template. This template is only available when the WebLogic Integration component is installed.

- Chapter 9, "BPM Domain Template" describes reference information for the BPM Domain template. This template is only available when the WebLogic Integration component is installed.
- Chapter 10, "WebLogic Portal Domain Template" describes reference information for the WLI Domain template. This template is only available when the WebLogic Portal component is installed.

Audience

This document is intended mainly for system administrators or application developers who are configuring domains for WebLogic Platform environments. It assumes a familiarity with WebLogic Server and the concept of WebLogic domains.

e-docs Web Site

BEA product documentation is available on the BEA corporate Web site. From the BEA Home page, click on Product Documentation or go directly to the "e-docs" Product Documentation page at http://e-docs.bea.com.

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A PDF version of this document is available on the WebLogic Platform documentation Home page on the e-docs Web site (and also on the documentation CD). You can open the PDF in Adobe Acrobat Reader and print the entire document (or a portion of it) in book format. To access the PDFs, open the WebLogic Platform documentation Home page, click the PDF files button and select the document you want to print.

If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at http://www.adobe.com/.

Related Information

The BEA corporate Web site provides all documentation for WebLogic Platform. Other WebLogic Platform documents that you may find helpful in understanding, configuring, and managing domains are:

- *Installing BEA WebLogic Platform*
- *Creating and Configuring WebLogic Domains*
- *Using WebLogic Clusters*
- *Starting, Stopping, and Customizing WebLogic Integration*
- *Introduction to WebLogic Platform 7.0 Security*

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In your e-mail message, please indicate the software name and version you are using, as well as the title and document date of your documentation. If you have any questions about this version of WebLogic Platform, or if you have problems installing and running WebLogic Platform, contact BEA Customer Support through BEA WebSupport at **www.bea.com**. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
italics	Indicates emphasis or book titles.

`monospace text`	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard.
	Examples:
	`import java.util.Enumeration;`
	`chmod u+w *`
	`config/examples/applications`
	`.java`
	`config.xml`
	`float`

`monospace italic text`	Identifies variables in code. *Example*: `String CustomerName;`

Convention	Item
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. *Example*s: LPT1 BEA_HOME OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[ ]	Indicates optional items in a syntax line. The brackets themselves should never be typed. *Example*: `java.utils.MultiCastTest -n name -a address [-p portnumber] [-t timeout] [-s send]`
|	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed. `java weblogic.deploy [list|deploy|undeploy|update] password {application} {source}`
. . .	Indicates one of the following in a command line: ■ That an argument can be repeated several times in a command line ■ That the statement omits additional optional arguments ■ That you can enter additional parameters, values, or other information The ellipsis itself should never be typed. *Example*: `buildobjclient [-v] [-o name ] [-f file-list]... [-l file-list]...`
. . .	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

1 Overview of Configuration Wizard Templates

The Configuration Wizard requires a domain template to create a WebLogic domain. A Configuration Wizard template is a Java ARchive file (JAR file) consisting of a collection of files and scripts necessary for creating a new custom domain. WebLogic Platform provides preconfigured domain templates as part of the product installation. These preconfigured templates are located in the WebLogic Platform installation directory (named `weblogic700` by default) in `common\templates\domains` and are listed in the following table.

Note: The available list of preconfigured templates varies with the WebLogic Platform components that are installed.

WebLogic Platform Component	Template Name	Template Description
WebLogic Platform (all components must be installed)	Platform Domain	This domain template provides a skeleton for developing applications using all WebLogic Platform components. For more information about this template, refer to Chapter 6, "Platform Domain Template."
WebLogic Server	WLS Domain	This template creates a very basic WebLogic Server domain without installing sample applications on the domain's servers. For more information about this template, refer to Chapter 2, "WLS Domain Template."

WebLogic Platform Component	Template Name	Template Description
WebLogic Server	WLS Petstore	This template creates a WebLogic Server domain comparable to the Petstore sample domain. For more information about this template, refer to Chapter 4, "WLS Petstore Domain Template."
WebLogic Server	WLS Examples	This template creates a WebLogic Server domain comparable to the WebLogic Server Examples domain. For more information about this template, refer to Chapter 3, "WLS Examples Domain Template."
WebLogic Server	WebLogic Workshop	This domain template supports the development of WebLogic Workshop solutions. For more information about this template, refer to Chapter 5, "WebLogic Workshop Domain Template."
WebLogic Integration	BPM Domain	This domain template supports the development of business process management solutions. The WebLogic Integration functionality associated with business process management (BPM) and data integration are supported in the domain. For more information about this template, refer to Chapter 9, "BPM Domain Template."
WebLogic Integration	EAI Domain	This template configures a domain to support the development of enterprise application integration solutions. The WebLogic Integration functionality associated with BPM, application integration, and data integration are supported in this domain. For more information about this template, refer to Chapter 8, "EAI Domain Template."
WebLogic Integration	WLI Domain	This template configures a domain to support the development of solutions that employ the full range of WebLogic Integration functionality. WebLogic Integration functionality associated with application integration, data integration, BPM, and B2B integration are supported in this domain. For more information about this template, refer to Chapter 7, "WLI Domain Template."

WebLogic Platform Component	Template Name	Template Description
WebLogic Portal	WLP Domain	This domain template supports the development of WebLogic Portal solutions. For more information about this template, refer to Chapter 10, "WebLogic Portal Domain Template."

CHAPTER

2 WLS Domain Template

The following WebLogic Server (WLS) Domain template topics are discussed in this section:

- Template Description
- Creating a Domain Based on the WLS Domain Template
- Applications and Resources
- Configuration and Supporting Files
- Applications and Resources

Template Description

The WebLogic Server Domain template is a basic domain template that creates a WebLogic Server domain configured to be used for building and deploying applications. This template is available upon installation of WebLogic Server and does not include any sample applications.

Purpose

The WebLogic Server Domain template is intended for initial development of WebLogic Server applications. The WebLogic Server Domain template creates the environment and basic start scripts necessary for starting a server in this domain.

Creating a Domain Based on the WLS Domain Template

This section describes how to create a functional domain based on the WLS Domain template. It includes the following topics:

- Process Overview
- Deploying Applications

Process Overview

The following table provides an overview of the steps required to create a domain based on the WLS Domain template.

Task	Refer to...
1. Initiate the Configuration Wizard to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`
2. Select the WLS Domain template and respond to the prompts to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`
3. Set up optional domain definitions for network connections, node manager, database connection pools, clusters, etc. **Note:** This is an optional step depending on your domain requirements.	*Creating and Configuring WebLogic Domains* at the following URL: `http://edocs.bea.com/wls/docs70/admin_domain/index.html` and *Using WebLogic Server Clusters* at the following URL: `http://edocs.bea.com/wls/docs70/cluster/index.html`

Task	Refer to...
4. Start WebLogic Server.	"Starting and Stopping WebLogic Servers" in the *BEA WebLogic Server Administration Guide* at the following URL: `http://edocs.bea.com/wls/docs70/adminguide/startstop.html`

Deploying Applications

The mode under which the server is running will determine the method of deploying applications in this domain. The modes for deploying applications are:

- Development and Testing

  When the server is running in development mode, applications or modules in this `domain` directory are deployed automatically.

- Production

  When the server is running in production mode, applications or modules in this `domain` directory are not deployed automatically. This is the default behavior of the domain.

Deploying Applications Automatically

One of the following actions allow applications in this domain to be deployed automatically:

- Start the server in development mode.
- Place the exploded directory structure or archive file in the `domain` directory.

When you deploy the applications automatically, the server automatically adds an entry for your application or module to the `config.xml` file for the domain. You do not need to manually edit the `config.xml` file.

Security Compatibility

The default security mode for the WebLogic Server Domain template is the new LDAP security mode. For applications that are only using WebLogic Server and WebLogic Workshop, LDAP security is recommended.

Note: If you are developing WebLogic Server applications that will use either WebLogic Integration or WebLogic Portal components or both components, you must use the realm-based security model.

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

http://edocs.bea.com/platform/docs70/secintro/index.html

Configuration and Supporting Files

The WebLogic Server Domain template creates various directories and scripts under the `user_projects/domain` directory, where `domain` is the name of the WebLogic Server domain. The scripts and files vary depending on the configuration selected (standalone or clustered). The following table is a list of some of the basic directories and files that are installed with the domain. These scripts and files must be configured properly for the server to boot in the domain.

Note: The following table is not a complete list of all directories and files. The list varies depending on the configuration selected.

Directory	Files	Purpose
`user_projects/domain /applications/ DefaultWebApp/ Web-inf`	`web.xml`	Default application for WebLogic Server support.

Directory	Files	Purpose
`user_projects/domain /applications/ DefaultWebApp`	`index.html`	Default index page for the WebLogic Server sample application. Replace this file with a new page for customized applications.
`user_projects/domain /logs`	`weblogic.log`	Location for log files generated for the domain.
`user_projects/domain`	`config.xml`	The configuration information for this WebLogic Server domain Administration Server.
`user_projects/domain`	`fileRealm.properties`	Specifies the security properties, such as the User, Group, and ACL objects for the domain. **Note:** LDAP is the default security mode. Realm-based security is available for compatibility purposes.
`user_projects/domain`	`startWebLogic.cmd`, `startWebLogic.sh`	Starts the Administration Server for a custom domain.
`user_projects/domain`	`stopWebLogic.cmd`, `stopWebLogic.sh`	Stops the Administration Server for a custom domain.
`user_projects/domain`	`startManagedWebLogic.cmd`, `startManagedWebLogic.sh`	Starts a Managed Server in a custom domain.
`user_projects/domain`	`demokey.pem`, `democert.pem`	Provides sample SSL protocol support for servers in the domain.
`user_projects/domain`	`installService.cmd`, `uninstallService.cmd`	Installs/uninstalls the server in the domain as a Windows service. The `installService.cmd` script calls the `installSvc.cmd` and creates an entry for the service in the Windows Registry so that the Windows system knows to start the service each time the Windows system boots.

Directory	Files	Purpose
user_projects/domain	setEnv.cmd, setEnv.sh	Sets environment variables for domain servers.

For additional information about configuring your WebLogic Server domain, refer to *Creating and Configuring WebLogic Domains* at the following URL:

http://edocs.bea.com/wls/docs70/admin_domain/index.html

For information about configuring WebLogic Server clusters, refer to *Using WebLogic Server Clusters* at the following URL:

http://edocs.bea.com/wls/docs70/cluster/index.html

Applications and Resources

The WebLogic Server Domain template supports a single JVM or cluster domain configuration. This template creates a shell of a configuration and supports an environment that can be configured to deploy WebLogic Server applications. Required applications must be created and configured within the domain environment.

After creating a domain with the WebLogic Server Domain template and populating the applications directory, you can start the server.

Types of Applications to Deploy

The WebLogic Server Domain supports the following types of applications or files:

- J2EE application EAR file
- WAR, EJB, JAR, RAR, or CAR archived modules
- Exploded directory structure or archive file

3 WLS Examples Domain Template

The following WebLogic Server (WLS) Examples template topics are discussed in this section:

- Template Description
- Creating a Domain Based on the WLS Examples Template
- Security Compatibility
- Configuration and Supporting Files
- Applications and Resources

Template Description

The WebLogic Server Examples template is a domain template that creates a WebLogic Server domain configured to be used for building and deploying applications similar to WebLogic Server Examples sample. This template is available upon installation of WebLogic Server and includes the scripts to run the Examples sample application.

Purpose

The WebLogic Server Examples template is intended for initial development of WebLogic Server applications. The WebLogic Server Examples template creates the environment and start scripts necessary for starting the Examples sample application in this domain. This will provide a comparable domain directory and configuration to the Examples sample application and allow for extending the sample application. This directory structure, `user_projects/domain`, will allow for development of applications outside of the samples directory structure. This will reduce the possibility of this `domain` directory being overwritten when applying WebLogic Platform maintenance.

Creating a Domain Based on the WLS Examples Template

This section describes how to create a functional domain based on the WLS Examples template. It includes the following topics:

- Process Overview
- Deploying Applications

Process Overview

The following table provides an overview of the steps required to create a domain based on the WLS Examples template.

Task	Refer to...
1. Initiate the Configuration Wizard to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`

Task	Refer to...
2. Select the WLS Examples template and respond to the prompts to create a new domain.	*Using the Configuration Wizard* at the following URL: http://edocs.bea.com/platform/docs70/confgwiz/index.html
3. Set up optional domain definitions for network connections, node manager, database connection pools, clusters, etc. **Note:** This is an optional step depending on your domain requirements.	*Creating and Configuring WebLogic Domains* at the following URL: http://edocs.bea.com/wls/docs70/admin_domain/index.html and *Using WebLogic Server Clusters* at the following URL: http://edocs.bea.com/wls/docs70/cluster/index.html
4. Start WebLogic Server.	"Starting and Stopping WebLogic Servers" in the *BEA WebLogic Server Administration Guide* at the following URL: http://edocs.bea.com/wls/docs70/adminguide/startstop.html

Deploying Applications

The mode under which the server is running will determine the method of deploying applications in this domain. The modes for deploying applications are:

- Development and Testing

  When the server is running in development mode, applications or modules in this `domain` directory are deployed automatically. This is the default behavior of the domain.

- Production

  When the server is running in production mode, applications or modules in this `domain` directory are not deployed automatically.

Deploying Applications Automatically

One of the following actions allow applications in this domain to be deployed automatically:

- Start the server in development mode.
- Place the exploded directory structure or archive file in the `domain` directory.

When you deploy the applications automatically, the server automatically adds an entry for your application or module to the `config.xml` file for the domain. You do not need to manually edit the `config.xml` file.

Security Compatibility

The default security mode for the WebLogic Server Examples template is the new LDAP security mode. For applications that are only using WebLogic Server and WebLogic Workshop, LDAP security is recommended.

Note: If you are developing WebLogic Server applications that will use either WebLogic Integration or WebLogic Portal components or both components, you must use the realm-based security model.

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

`http://edocs.bea.com/platform/docs70/secintro/index.html`

Configuration and Supporting Files

The WebLogic Server Examples template creates various directories and scripts under the `user_projects/domain` directory, where `domain` is the name of the WebLogic Server Examples domain. The scripts and files vary depending on the configuration

selected (standalone or clustered). The following table is a list of some of the basic directories and files that are installed with the domain. These scripts and files must be configured properly for the server to boot in the domain.

Note: The following table is not a complete list of all directories and files. The list varies depending on the configuration selected.

Directory	Files	Purpose
`user_projects/domain /applications/ DefaultWebApp/ Web-inf`	`web.xml`	Default application for WebLogic Server support.
`user_projects/domain /applications/ DefaultWebApp`	`index.jsp`	Default index page for the WebLogic Server Examples sample application. Replace this file with a new page for customized applications.
`user_projects/domain /applications`	`readme.txt`	The `readme.txt` file provides general information about the WebLogic Server Examples domain. The `application` directory provides a location for a customized WebLogic Server application.
`user_projects/domain /logs`	`weblogic.log`	Location for log files generated for the domain.
`user_projects/domain`	`config.xml`	The configuration information for the Administration Server for the WebLogic Server Examples domain.
`user_projects/domain`	`fileRealm.properties`	Specifies the security properties, such as the User, Group, and ACL objects for the domain. **Note:** LDAP is the default security mode. Realm-based security is available for compatibility purposes.

Directory	Files	Purpose
user_projects/domain	startExamplesServer.cmd, startExamplesServer.sh	Starts the Administration Server for the WebLogic Server Examples custom domain.
user_projects/domain	startManagedWebLogic.cmd, startManagedWebLogic.sh	Starts a Managed Server in a custom domain.
user_projects/domain	demokey.pem, democert.pem	Provides sample SSL protocol support for servers in the domain.
user_projects/domain	setExamplesEnv.cmd, setExamplesEnv.sh	Sets environment variables for domain servers.

For additional information about configuring your WebLogic Server Examples domain, refer to *Creating and Configuring WebLogic Domains* at the following URL:

http://edocs.bea.com/wls/docs70/admin_domain/index.html

For information about configuring WebLogic Server clusters, refer to *Using WebLogic Server Clusters* at the following URL:

http://edocs.bea.com/wls/docs70/cluster/index.html

Applications and Resources

This template creates a comparable configuration to that of the Examples sample domain. This domain supports an environment that can be extended to develop and deploy additional applications other than Examples. The following applications are deployed with this domain:

After creating a domain with the WebLogic Server Examples template, you can start the server. When you start the server, a Pointbase database connection is initiated for the domain.

Types of Applications to Deploy

The WebLogic Server Examples domain supports the following types of applications or files:

- J2EE application EAR file
- WAR, EJB, JAR, RAR, or CAR archived modules
- Exploded directory structure or archive file

4 WLS Petstore Domain Template

The following WebLogic Server (WLS) Petstore template topics are discussed in this section:

- Template Description
- Creating a Domain Based on the WLS Petstore Template
- Security Compatibility
- Configuration and Supporting Files
- Applications and Resources

Template Description

The WebLogic Server Petstore template is a domain template that creates a WebLogic Server domain configured to be used for building and deploying applications similar to Petstore. This template is available upon installation of WebLogic Server and includes the scripts to run the Petstore sample application.

Purpose

The WebLogic Server Petstore template is intended for initial development of WebLogic Server applications. The WebLogic Server Petstore template creates the environment and start scripts necessary for starting the Petstore sample application in this domain. This will provide a comparable domain directory and configuration to the Petstore sample application and allow for extending the sample application. This directory structure, `user_projects/domain`, will allow for development of applications outside of the samples directory structure. This will reduce the possibility of this `domain` directory being overwritten when applying WebLogic Platform maintenance.

Creating a Domain Based on the WLS Petstore Template

This section describes how to create a functional domain based on the WebLogic Server Petstore template. It includes the following topics:

- Process Overview
- Deploying Applications

Process Overview

The following table provides an overview of the steps required to create a domain based on the WebLogic Server Petstore template.

Task	Refer to...
1. Initiate the Configuration Wizard to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`

Task	Refer to...
2. Select the WLS Petstore template and respond to the prompts to create a new domain.	*Using the Configuration Wizard* at the following URL: http://edocs.bea.com/platform/docs70/confgwiz/index.html
3. Set up optional domain definitions for network connections, node manager, database connection pools, clusters, etc. **Note:** This is an optional step depending on your domain requirements.	*Creating and Configuring WebLogic Domains* at the following URL: http://edocs.bea.com/wls/docs70/admin_domain/index.html and *Using WebLogic Server Clusters* at the following URL: http://edocs.bea.com/wls/docs70/cluster/index.html
4. Start WebLogic Server.	"Starting and Stopping WebLogic Servers" in the *BEA WebLogic Server Administration Guide* at the following URL: http://edocs.bea.com/wls/docs70/adminguide/startstop.html

Deploying Applications

The mode under which the server is running will determine the method of deploying applications in this domain. The modes for deploying applications are:

- Development and Testing

  When the server is running in development mode, applications or modules in this `domain` directory are deployed automatically.

- Production

  When the server is running in production mode, applications or modules in this `domain` directory are not deployed automatically. This is the default behavior of the domain.

Deploying Applications Automatically

One of the following actions allow applications in this domain to be deployed automatically:

- Start the server in development mode.
- Place the exploded directory structure or archive file in the `domain` directory.

When you deploy the applications automatically, the server automatically adds an entry for your application or module to the `config.xml` file for the domain. You do not need to manually edit the `config.xml` file.

Security Compatibility

The default security mode for the WebLogic Server Petstore template is the new LDAP security mode. For applications that are only using WebLogic Server and WebLogic Workshop, LDAP security is recommended.

Note: If you are developing WebLogic Server applications that will use either WebLogic Integration or WebLogic Portal components or both components, you must use the realm-based security model.

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

`http://edocs.bea.com/platform/docs70/secintro/index.html`

Configuration and Supporting Files

The WebLogic Server Petstore template creates various directories and scripts under the `user_projects/domain` directory, where `domain` is the name of the WebLogic Server Petstore domain. The scripts and files vary depending on the configuration

selected (standalone or clustered). The following table is a list of some of the basic directories and files that are installed with the domain. These scripts and files must be configured properly for the server to boot in the domain.

Note: The following table is not a complete list of all directories and files. The list varies depending on the configuration selected.

Directory	Files	Purpose
`user_projects/domain /applications`	`readme.txt`	The `readme.txt` file provides general information about the WebLogic Server Petstore domain. The `application` directory provides a location for a customized WebLogic Server application.
`user_projects/domain /logs`	`weblogic.log`	Location for log files generated for the domain.
`user_projects/domain`	`config.xml`	The configuration information for the Administration Server for the WebLogic Server Petstore domain.
`user_projects/domain`	`fileRealm.properties`	Specifies the security properties, such as the User, Group, and ACL objects for the domain. **Note:** LDAP is the default security mode. Realm-based security is available for compatibility purposes.
`user_projects/domain`	`startPetstore.cmd`, `startPetstore.sh`	Starts the Administration Server for the WebLogic Server Petstore custom domain.
`user_projects/domain`	`startManagedWebLogic.cmd`, `startManagedWebLogic.sh`	Starts a Managed Server in a custom domain.
`user_projects/domain`	`demokey.pem`, `democert.pem`	Provides sample SSL protocol support for servers in the domain.

For additional information about configuring your WebLogic Server Petstore domain, refer to *Creating and Configuring WebLogic Domains* at the following URL:

http://edocs.bea.com/wls/docs70/admin_domain/index.html

For information about configuring WebLogic Server clusters, refer to *Using WebLogic Server Clusters* at the following URL:

http://edocs.bea.com/wls/docs70/cluster/index.html

Applications and Resources

This template creates a comparable configuration to that of the Pet Store sample domain. This domain supports an environment that can be extended to develop and deploy additional applications other than Pet Store.

After creating a domain with the WebLogic Server Petstore template, you can start the server. When you start the server, a Pointbase database connection is initiated for the domain.

Types of Applications to Deploy

The WebLogic Server Petstore domain supports the following types of applications or files:

- J2EE application EAR file
- WAR, EJB, JAR, RAR, or CAR archived modules
- Exploded directory structure or archive file

CHAPTER

5 WebLogic Workshop Domain Template

The following WebLogic Workshop Domain template topics are discussed in this section:

- Template Description
- Creating a Domain Based on the WebLogic Workshop Template
- Configuration and Supporting Files
- Applications and Resources

Template Description

The WebLogic Workshop template is a domain template that creates a WebLogic Server domain configured to be used for building WebLogic Workshop applications. This template is available upon installation of WebLogic Server.

Purpose

The WebLogic Workshop template is intended for initial development and experimentation of WebLogic Workshop applications. The WebLogic Workshop template creates the environment and start scripts necessary for starting a server in this domain.

Creating a Domain Based on the WebLogic Workshop Template

This section describes how to create a functional domain based on the WebLogic Workshop template. It includes the following topics:

- Process Overview
- Deploying Applications
- Security Compatibility
- Switching Databases

Process Overview

The following table provides an overview of the steps required to create a domain based on the WebLogic Workshop template.

Task	Refer to...
1. Initiate the Configuration Wizard to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`
2. Select the WebLogic Workshop template and respond to the prompts to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`

Task	Refer to...
3. Set up optional domain definitions for network connections, node manager, database connection pools, clusters, etc. **Note:** This is an optional step depending on your domain requirements.	*Creating and Configuring WebLogic Domains* at the following URL: http://edocs.bea.com/wls/docs70/admin_domain/index.html and *Using WebLogic Server Clusters* at the following URL: http://edocs.bea.com/wls/docs70/cluster/index.html
4. Set up your domain for a clustered environment. **Note:** This is an optional step depending on your configuration requirements.	"How Do I: Deploy a Workshop Application to a Cluster?" in the BEA WebLogic Workshop Help at the following URL: http://edocs.bea.com/workshop/docs70/help/guide/deployment/howClusterDeployment.html
5. Start WebLogic Server.	"Starting and Stopping WebLogic Servers" in the *BEA WebLogic Server Administration Guide* at the following URL: http://edocs.bea.com/wls/docs70/adminguide/startstop.html and "How Do I: Start WebLogic Workshop?" in the BEA WebLogic Workshop Help at the following URL: http://edocs.bea.com/workshop/docs70/help/guide/howdoi/HowDoIStartWebLogicWorkshop.html

Deploying Applications

The mode under which the server is running will determine the method of deploying applications in this domain. The modes for deploying applications are:

- Development and Testing

  This domain is intended primarily for initial development and experimentation of applications that involve WebLogic Workshop applications. The applications in this domain, by default, are in development mode.

- Production

  For information regarding deploying applications in production mode, refer to the BEA WebLogic Workshop Help at the following URL:

  http://edocs.bea.com/workshop/docs70/help/guide/howdoi/howDeployWebLogicWorkshopWebServicestoaProductionServer.html

Deploying Applications Automatically

One of the following actions allow applications in this domain to be deployed automatically:

- Start the server in development mode.
- Place the exploded directory structure or archive file in the `domain` directory.

When you deploy the applications automatically, the server automatically adds an entry for your application or module to the `config.xml` file for the domain. You do not need to manually edit the `config.xml` file.

Deploying Applications in a Cluster

After initiating the server, review the various component consoles to determine what applications are deployed.

Note: WebLogic Workshop applications can easily be deployed on WebLogic Server cluster environments. For information on how to deploy these applications, refer to the BEA WebLogic Workshop documentation at the following URL:

http://edocs.bea.com/workshop/docs70/index.html

In this version of WebLogic Workshop, applications that use a JMS message queue rely on the services of a single JMS server and connection factory. This includes applications that use JMS as a transport protocol, the message-buffer

property, or timer controls. Future versions of WebLogic Workshop will use the distributed JMS destination capability in WebLogic Server to reduce the dependency on a single JMS server in a clustered environment.

Security Compatibility

The default security mode for the WebLogic Workshop domain template is the new LDAP security mode. For applications that are only using WebLogic Server and WebLogic Workshop, LDAP security is recommended.

Note: If you are developing WebLogic Workshop applications that will use either WebLogic Integration or WebLogic Portal components or both components, you must use the realm-based security model.

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

`http://edocs.bea.com/platform/docs70/secintro/index.html`

Switching Databases

The default database available with WebLogic Server is Pointbase. To switch to another database, refer to the procedures in the BEA WebLogic Workshop Help at the following URL:

`http://edocs.bea.com/workshop/docs70/help/guide/howdoi/howConnectaDatabaseControltoaDifferentDatabaseSQLServerOracle.html`

Configuration and Supporting Files

The WebLogic Workshop domain template creates various directories and scripts under the `user_projects/domain` directory, where `domain` is the name of the WebLogic Workshop domain. The scripts and files vary depending on the

configuration selected (standalone or clustered). The following table is a list of some of the basic directories and files that are installed with the domain. These scripts and files must be configured properly for the server to boot in the domain.

Note: The following table is not a complete list of all directories and files. The list varies depending on the configuration selected.

Directory	Files	Purpose
`user_projects/domain /applications/ DefaultWebApp/ Web-inf`	`web.xml, weblogic.xml, weblogic-jws-config.xml`	Default application for WebLogic Workshop support.
`user_projects/domain /applications/ DefaultWebApp`	`index.html`	Default index page for the WebLogic Workshop sample application. Replace this file with a new page for customized applications.
`user_projects/domain /logs`		Location for log files generated for the domain.
`user_projects/domain`	`config.xml`	The configuration information for this WebLogic Workshop domain Administration Server.
`user_projects/domain`	`*.properties`	Various properties files to provide information for setting up your database, security, and runtime configuration guidelines for WebLogic Workshop.
`user_projects/domain`	`pointbase.ini`	Sets the default configuration for the Pointbase database to run when WebLogic Server is started.
`user_projects/domain`	`startWebLogic.cmd, startWebLogic.sh`	Starts the Administration Server for a custom domain.
`user_projects/domain`	`stopWebLogic.cmd, stopWebLogic.sh`	Stops the Administration Server for a custom domain.
`user_projects/domain`	`startManagedWebLogic.cmd, startManagedWebLogic.sh`	Starts a Managed Server in a custom domain.

Directory	Files	Purpose
user_projects/domain	demokey.pem, democert.pem	Provides sample SSL protocol support for servers in the domain.

For additional information about configuring your WebLogic Server Petstore domain, refer to *Creating and Configuring WebLogic Domains* at the following URL:

http://edocs.bea.com/wls/docs70/admin_domain/index.html

For information about configuring WebLogic Server clusters, refer to *Using WebLogic Server Clusters* at the following URL:

http://edocs.bea.com/wls/docs70/cluster/index.html

For information about configuring WebLogic Workshop-enabled WebLogic Server domain, refer to *Deployment and Administration* information in the WebLogic Workshop documentation at the following URL:

http://edocs.bea.com/workshop/docs70/index.html

Applications and Resources

The WebLogic Workshop domain template supports a single JVM or cluster domain configuration. This template creates a shell of a configuration with a sample Web application provided. It supports an environment that can be configured to deploy WebLogic Workshop applications.

After creating a domain with the WebLogic Workshop domain template, you can start the server. When you start the server, a Pointbase database connection is initiated for the domain.

CHAPTER

6 Platform Domain Template

The following Platform Domain template topics are discussed in this section:

- Template Description
- Creating a Domain Based on the Platform Domain Template
- Configuration and Supporting Files
- Applications and Resources

Template Description

The Platform Domain template is a domain template that creates a Platform domain in which all WebLogic Platform components are configured in a single JVM or clustered environment. This template is only available upon installation of all WebLogic Platform components.

Purpose

The Platform Domain template is intended for initial development and experimentation of applications that involve interoperation across WebLogic Platform components. The Platform Domain template creates the environment and start scripts necessary for starting a server in this domain.

Creating a Domain Based on the Platform Domain Template

This section describes how to create a functional domain based on the Platform Domain template. It includes the following topics:

- Process Overview
- Deploying Applications
- Security Compatibility
- Switching Databases

Process Overview

To fully use the Platform Domain template to create a domain, the following components and samples are a prerequisite:

- WebLogic Server
- WebLogic Integration
- WebLogic Portal
- WebLogic Workshop
- WebLogic Workshop Samples

The following table provides an overview of the steps required to create a domain based on the Platform Domain template.

Task	Refer to...
1. Initiate the Configuration Wizard to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`

Task	Refer to...
2. Select the Platform Domain template and respond to the prompts to create a new domain.	*Using the Configuration Wizard* at the following URL: http://edocs.bea.com/platform/docs70/confgwiz/index.html
3. Set up optional domain definitions for network connections, node manager, database connection pools, etc. **Note:** This is an optional step depending on your domain requirements.	*Creating and Configuring WebLogic Domains* at the following URL: http://edocs.bea.com/wls/docs70/admin_domain/index.html
4. Set up your domain for a clustered environment. **Note:** This is an optional step depending on your configuration requirements.	*Using WebLogic Server Clusters* at the following URL: http://edocs.bea.com/wls/docs70/cluster/index.html and "How Do I: Deploy a Workshop Application to a Cluster?" in the BEA WebLogic Workshop Help at the following URL: http://edocs.bea.com/workshop/docs70/help/guide/deployment/howClusterDeployment.html and "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* at the following URL: http://edocs.bea.com/wli/docs70/deploy/config.htm
5. Start WebLogic Server.	"Starting and Stopping WebLogic Servers" in the *BEA WebLogic Server Administration Guide* at the following URL: http://edocs.bea.com/wls/docs70/adminguide/startstop.html

Deploying Applications

The mode under which the server is running will determine the method of deploying applications in this domain. The modes for deploying applications are:

- Development and Testing

  This domain is intended primarily for initial development and experimentation of applications that involve interoperation across WebLogic Platform components.

- Production

  For information regarding deploying applications in production mode, refer to the BEA WebLogic Server documentation at the following URL:

  `http://edocs.bea.com/wls/docs70/webapp/deployment.html`

  Note: It is likely that for production WebLogic Platform applications that interoperate with all WebLogic Platform components, multiple JVMs or clusters will be used for deployment. In this case, different domain configuration requirements exist and this Platform Domain template does not offer the required configuration.Review the following considerations to continue customizing your domain.

After initiating the server, review the various component consoles to determine what applications are deployed.

To deploy runtime data to the server, you must run the datasync using the EBCC or `sync.cmd` available in the WebLogic Portal component. For more information, refer to the "System Administration" section of the *BEA WebLogic Portal Administration Guide* at the following URL:

`http://e-docs.bea.com/wlp/docs70/admin/index.htm`

Deploying Applications Automatically

One of the following actions allow applications in this domain to be deployed automatically:

- Start the server in development mode.
- Place the exploded directory structure or archive file in the `domain` directory.

When you deploy the applications automatically, the server automatically adds an entry for your application or module to the `config.xml` file for the domain. You do not need to manually edit the `config.xml` file.

Deploying Applications in a Cluster

After initiating the server, review the various component consoles to determine what applications are deployed. The following references provide component-specific information regarding clustering.

- WebLogic Server

  Refer to *Using WebLogic Server Clusters* at the following URL:

  `http://edocs.bea.com/wls/docs70/cluster/index.html`

- WebLogic Workshop

  WebLogic Workshop applications can easily be deployed on WebLogic Server cluster environments. For information on how to deploy these applications, refer to the BEA WebLogic Workshop documentation at the following URL:

  `http://edocs.bea.com/workshop/docs70/index.html`

  In this version of WebLogic Workshop, applications that use a JMS message queue rely on the services of a single JMS server and connection factory. This includes applications that use JMS as a transport protocol, the message-buffer property, or timer controls. Future versions of WebLogic Workshop will use the distributed JMS destination capability in WebLogic Server to reduce the dependency on a single JMS server in a clustered environment.

- WebLogic Integration

  Refer to "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* at the following URL:

  `http://edocs.bea.com/wli/docs70/deploy/config.htm`

Security Compatibility

The default security mode for the Platform Domain template is compatibility mode which is realm-based. For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

http://edocs.bea.com/platform/docs70/secintro/index.html

Switching Databases

The default database available with WebLogic Platform is Pointbase. To switch to another database, refer to the procedures described in "Customizing a Domain for a Database" in the *BEA WebLogic Platform Release Notes* at the following URL:

http://e-docs.bea.com/platform/docs70/relnotes/relnotes.html

Configuration and Supporting Files

The Platform Template will create various directories and scripts under the `user_projects/domain` directory, where `domain` is the name of the Platform domain. The scripts and files vary depending on the configuration selected (standalone or clustered). The following table is a list of some of the basic directories and files that are installed with the domain. These scripts and files must be configured properly for the server to boot in the domain.

Note: The following table is not a complete list of all directories and files. The list varies depending on the configuration selected.

Directory	Files	Purpose
`user_projects/domain /applications`	placeholder.txt	Allows for the `create_wli` scripts to recognize the existence of domain applications.

Directory	Files	Purpose
user_projects/domain /beaApps/ paymentWSApp		Standard applications for WebLogic Portal support.
user_projects/domain /beaApps/portalApp		Standard applications for WebLogic Portal support.
domain/beaApps/ portalApp	campaign.jar, catalogws.jar, commerce_campaign_bridge_ util.jar, commerce_util.jar, customer.jar, document.jar, ebusiness.jar, ejbadvisor.jar, events.jar, ldapprofile.jar, mail.jar, p13n_util.jar, payment.jar, pipeline.jar, placeholder.jar, portal.jar, portal_util.jar, property.jar, rules.jar, tax.jar, usermgmt.jar	A default portal enterprise application. These JARs enable the portal framework and provide such services as personalization, campaigns, commerce, and LDAP integration. The enterprise application also includes Web applications for: ■ E-Business Control Center data synchronization to the server (datasync/). ■ The WebLogic Portal Administration Tools (tools/) that let you create and manage users, manage portals, and manage commerce features.
user_projects/domain /beaApps/portalApp-p roject		This directory contains the infrastructure for creating and managing E-Business Control Center data for the enterprise application. The project file (portalApp-project.eaprj) manages all E-Business Control Center data and stores the information necessary to synchronize data to the server and retrieve server-side properties for defining queries. Also included are sets of predefined portal skins and layouts (/application-sync/library/ portal/).
user_projects/domain /beaApps/taxWSApp		Standard applications for WebLogic Portal support.

Directory	Files	Purpose
user_projects/domain /beaApps/workshop		Standard applications for WebLogic Portal support.
user_projects/domain /dbInfo	setdbtype setdbtype.cmd	Sets the database selection for the domain.
user_projects/domain /dbInfo/mssql		Sets basic and extended database variables for the domain.
user_projects/domain /dbInfo/oracle		Sets basic and extended database variables for the domain.
user_projects/domain /dbInfo/pointbase		Sets basic and extended database variables for the domain. By default, the domain will run using Pointbase.
user_projects/domain /dmsBase/doc-schemas	placeholder.txt	Placeholder directories for WebLogic Portals standard content management services. Contains the following: ■ Placeholder directory for storing Web content and its metadata that will be loaded into the database (/Ads). ■ Placeholder directory for storing metadata schemas (/doc-schemas). Schemas provide drop-down list functionality for defining queries against the content in the E-Business Control Center.
user_projects/domain /pointbase	pointbase.ini	Sets the default configuration for the Pointbase database to run when WebLogic Server is started.
user_projects/domain	config.xml	The configuration information for this WebLogic Platform domain Administration Server.
user_projects/domain	create_db.cmd, create_db.sh	These scripts create the database for WebLogic Portal and call create_wli to load the information into the database for use by WebLogic Integration.

Directory	Files	Purpose
user_projects/domain	create_wli.cmd, create_wli.sh	Loads the database information for use by WebLogic Integration.
user_projects/domain	*.properties	Various properties files to provide information for setting up your database, security, runtime configuration guidelines for WebLogic Workshop, etc.
user_projects/domain	startWebLogic.cmd, startWebLogic.sh	Starts the Administration Server for a custom domain.
user_projects/domain	stopWebLogic.cmd, stopWebLogic.sh	Stops the Administration Server for a custom domain.
user_projects/domain	startManagedWebLogic.cmd, startManagedWebLogic.sh	Starts a Managed Server in a custom domain.
user_projects/domain	demokey.pem, democert.pem	Provides sample SSL protocol support for servers in the domain.

Applications and Resources

The Platform Template supports a single JVM or cluster domain configuration. This template creates a shell of a configuration without sample application data provided. It supports all WebLogic Platform components and can be configured to deploy applications across each component.

By default the Platform Template deploys applications for all the WebLogic Platform components. Refer to the config.xml file to determine these applications.

After creating a domain with the Platform Domain template, you can start the server. When you start the server, a Pointbase database connection is initiated for the domain.

CHAPTER

7 WLI Domain Template

The WebLogic Integration (WLI) Domain template can be used to create a domain that supports the full range of WebLogic Integration functionality, including business process management (BPM), data integration, application integration, and B2B integration.

This section describes the WLI Domain template and provides the information you need to configure a fully functional domain based on the WLI Domain template.

This section includes the following topics:

- Template Description
- Creating a Domain Based on the WLI Domain Template
- Security Compatibility
- Configuration and Supporting Files
- Applications and Resources

Template Description

The WLI Domain template creates a domain that supports the full range of WebLogic Integration functionality, including:

- Business process management (BPM)
- Data integration

- Application integration
- B2B integration

The WLI Domain template supports only two of the four Configuration Wizard server types:

- Single Server (Standalone Server)
- Admin Server with Clustered Managed Server(s)

The WLI Domain template does not support:

- Admin Server with Managed Server(s)
- Managed Server (with owning Admin Server Configuration)

Note: These options are not intended for use with the WLI Domain template. If you select the Admin Server with Managed Server(s) or Managed Server option, an invalid configuration will result.

Purpose

The WLI Domain template is intended to create a domain that supports the development and testing of applications that employ the full range of WebLogic Integration functionality, but which do not require WebLogic Portal or WebLogic Workshop functionality.

Creating a Domain Based on the WLI Domain Template

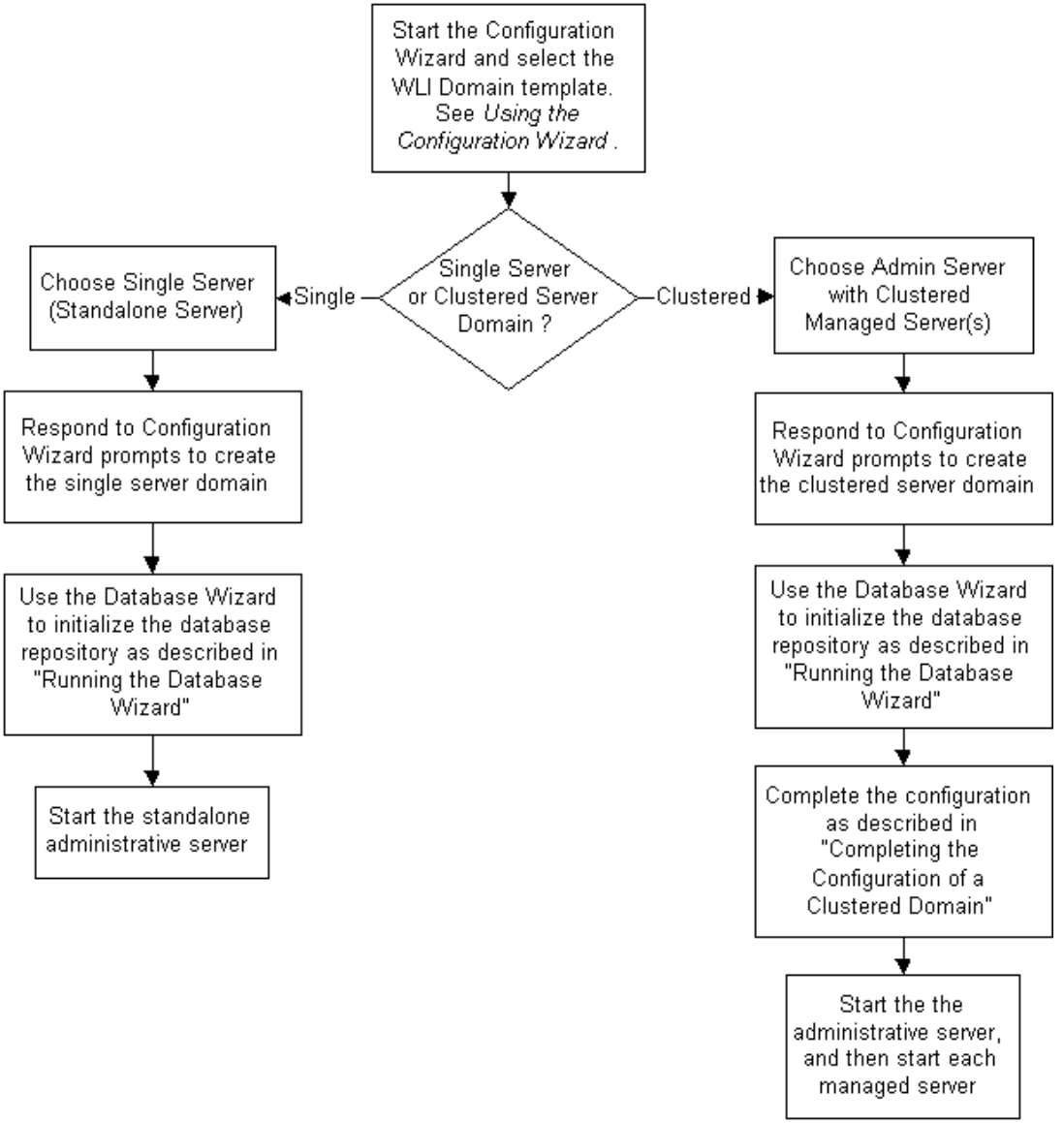
This section describes how to create a fully functional domain based on the WLI Domain template. It includes the following topics:

- Process Overview
- Running the Database Wizard
- Completing the Configuration of a Clustered Domain

Process Overview

Figure 7-1 provides an overview of the steps required to create a standalone server or clustered server domain based on the WLI Domain template.

Figure 7-1 Creating a Domain Based on the WLI Domain Template



Note: In the Configuration Wizard, the Configure Standalone/Administrative Server dialog box presents a default server name, `myserver`. We recommend that you accept the default name. If you choose to rename the administrative server, you must rename *`DOMAIN_HOME`*`/applications/DefaultWebApp_myserver` to *`DOMAIN_HOME`*`/applications/DefaultWebApp_`*`servername`*

Here, *`DOMAIN_HOME`* represents the root directory of the custom domain you created using the Configuration Wizard (for example, `c:\bea\user_projects\mydomain`) and *`servername`* represents the name you assigned to the administrative server in the dialog box.

For additional information about the Configuration Wizard prompts, see *Using the Configuration Wizard* at the following URL:

`http://e-docs.bea.com/platform/docs70/confgwiz/index.html`

The following sections provide the information you need to run the Database Wizard and complete the configuration of a clustered domain.

Note: Before you run the Database Wizard, make the changes required to complete the configuration of a clustered domain, or start the administrative server, we recommend that you back up the *`DOMAIN_HOME`*`/config.xml` file. This will allow you to easily restore the initial configuration. In addition, the `config.xml` file created by the WLI Domain template contains comments which are lost when you run the Database Wizard or start the administrative server.

Running the Database Wizard

When you use the Configuration Wizard to create a domain based on the WLI Domain template, a domain-specific version of the Database Wizard is installed in the *`DOMAIN_HOME`* directory. You must run the Database Wizard for the domain to initialize the database repository with the required tables and system data. For instructions, see "Using the Database Wizard" in "Customizing WebLogic Integration" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL:

`http://e-docs.bea.com/wli/docs70/config/custom.htm`

Until you have used the Database Wizard to initialize the WebLogic Integration database, you will be unable to start any server in the new domain.

Completing the Configuration of a Clustered Domain

If you selected the Admin Server with Clustered Managed Server(s) option, there are several tasks that must be performed to complete the configuration.

The following table lists each required configuration task and provides a cross-reference to the detailed procedure, which can be found in "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* at the following URL:

`http://e-docs.bea.com/wli/docs70/deploy/config.htm`

Table 7-1 Completing the Configuration of a Clustered Domain

To complete this task . . .	Refer to . . .
Edit the `config.xml` file to target the WLI-BPM Plugin Manager (`wlpi-master-ejb.jar`) and the BPM EventTopic JMS topic (`com.bea.wlpi.EventTopic`) to a single managed server.	Step 4. Configure BPM Resources for One Managed Server
Edit the `config.xml` file to target the event router WAR files to a single managed server.	Step 5. Configure Event Router WAR File for Adapters
Set the `-Dweblogic.management.discover` parameter to `true` in the `StartWeblogic` command for the administrative server.	Step 8. Edit the startWeblogic Command File
For any managed server configured on a machine remote from the administrative server, you must do the following: 1. Install WebLogic Platform on the remote machine. At a minimum, you must install WebLogic Integration. 2. Copy the files required to start the managed server from the administrative server *`DOMAIN_HOME`* directory to a corresponding directory on the machine hosting the managed server. Update the files as required.	Step 9. Set Up Managed Servers for Your Domain

At a minimum, you must complete the tasks listed in the table. Depending on how you intend to use the domain, additional steps may be required to configure an RDBMS security realm, configure a software router, secure your server environment, configure the servers for automatic restart, or configure for migration of resources from a failed to a healthy node. See "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* for details.

Security Compatibility

The default security mode for the WLI Domain template is the WebLogic Server 6.x file-based realm in compatibility mode (FileRealm). The new WebLogic Server 7.0 LDAP-based realm is not supported with WebLogic Integration functionality.

If you are migrating from a WebLogic Integration 2.1 RDBMS realm, see "Migrating from the RDBMS Realm" in "Migrating WebLogic Integration 2.1 to WebLogic Integration 7.0" in the *BEA WebLogic Integration Migration Guide* at the following URL:

`http://e-docs.bea.com/wli/docs70/migrate/berlin.htm`

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

`http://edocs.bea.com/platform/docs70/secintro/index.html`

Configuration and Supporting Files

The following table summarizes the configuration and supporting files included in a domain based on the WLI Domain template.

Table 7-2 WLI Domain Directories and Files

Files	Description

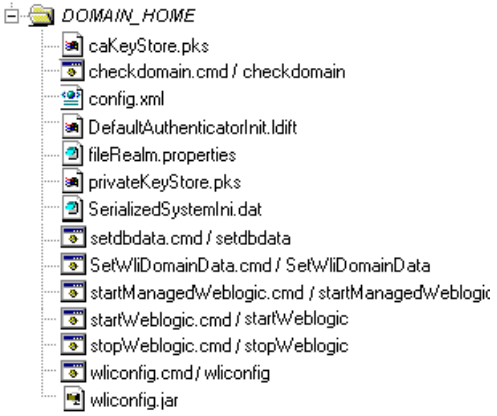
	The root of the domain contains the `config.xml` file, Windows and UNIX versions of the `startWebLogic` command (the command used to start the administrative server), `wliconfig` command (the command used to start the Database Wizard), and other WebLogic Integration specific commands. For additional information, see "WebLogic Integration Sample Configuration Files" and "WebLogic Integration Commands" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL:
	`http://e-docs.bea.com/wli/docs70/config/index.htm`
	The root of the domain also contains the root certificate authorities (CA) key store file (`caKeyStore.pks`), the private key store file (`privateKeyStore.pks`), the `fileRealm.properties` file, and the `SerializedSystemIni.dat` file, which is used to hash the passwords in the `fileRealm.properties` file.
	For information about setting up and managing security for WebLogic Integration solutions, see "Using WebLogic Integration Security" in *Deploying BEA WebLogic Integration Solutions* at the following URL:
	`http://e-docs.bea.com/wli/docs70/deploy/secure.htm`

Table 7-2 WLI Domain Directories and Files (Continued)

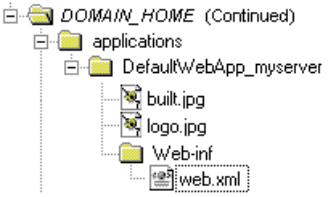
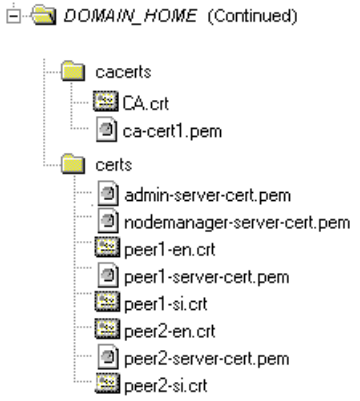
Files	Description
	The applications directory initially contains only the `DefaultWebApp_myserver` directory. If you named your administrative server something other than `myserver`, you should not attempt to start the server until you have renamed this directory to `DefaultWebApp_`*`servername`*.
	The `cacerts` directory contains BEA signed CA keys and certificates, which can be used in development and testing. The `certs` directory contains the trading partner keys and certificates used in the sample applications. For information about setting up and managing security for WebLogic Integration solutions, see "Using WebLogic Integration Security" in *Deploying BEA WebLogic Integration Solutions* at the following URL: `http://e-docs.bea.com/wli/docs70/deploy/secure.htm`

Table 7-2 WLI Domain Directories and Files (Continued)

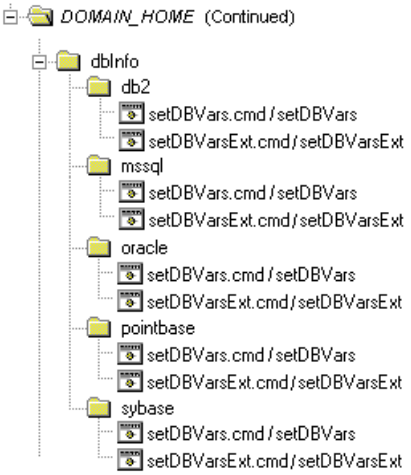
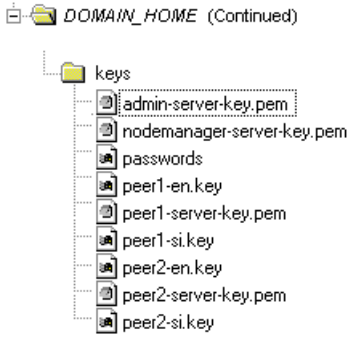
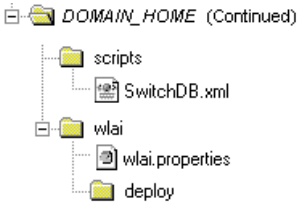
Files	Description
	The `dbInfo` directory contains commands used by the Database Wizard to create and populate the database repository for the domain. For information about `setDBVars` and related commands, see "WebLogic Integration Commands" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/config/keycmd.htm`
	The `keys` directory contains the private key and certificate files used in the sample applications. For information about setting up and managing security for WebLogic Integration solutions, see "Using WebLogic Integration Security" in *Deploying BEA WebLogic Integration Solutions* at the following URL: `http://e-docs.bea.com/wli/docs70/deploy/secure.htm`

Table 7-2 WLI Domain Directories and Files (Continued)

Files	Description
	The scripts directory contains the `SwitchBB.xml` file, which is used by the Database Wizard to update the configuration to a new database. The `wlai` directory contains the `wlai.properties` file and `deploy` directory.

Applications and Resources

This section provides a summary of the applications and resources configured in a domain based on the WLI Domain template. The targets indicated represent the initial configuration. If you selected Admin Server with Clustered Managed Server(s), you must modify the configuration for the WLI-BPM Plugin Manager, the BPM EventTopic JMS Topic, and the event router WAR files to target a single managed server. See "Completing the Configuration of a Clustered Domain" on page 7-6.

Table 7-3 WLI Domain Configuration Summary

Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	A single server, *myserver*, is configured.	An administrative server, *myserver*, and one or more managed servers are created as defined in the Configuration Wizard.

Table 7-3 WLI Domain Configuration Summary (Continued)

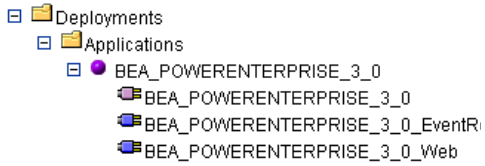
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	No cluster is created.	A single cluster, named as specified in the Configuration Wizard, is created. All managed servers defined are assigned to the single cluster.
	The target for all `BEA_POWERENTERPRISE_3_0` components is the administrative server.	The target for all `BEA_POWERENTERPRISE_3_0` components is the cluster. **Note:** To complete the configuration of the clustered domain, you must target the `BEA_POWERENTERPRISE_3_0_EventRouter` Web Application to a single managed server. See "Completing the Configuration of a Clustered Domain" on page 7-6.
	The BEA WebLogic Adapter for Power.Enterprise! (`BEA_POWERENTERPRISE_3_0`), in conjunction with BEA EDI Connect for WebLogic Integration (purchased separately as Power.Enterprise!), provides EDI Integration with capabilities for transforming, transmitting, and receiving EDI messages. For additional information, see *Using EDI with WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/edi/index.htm` **Note:** The BEA WebLogic Adapter for Power.Enterprise! 3.0 supports both the 3.0 and 3.1 versions of Power.Enterprise!.	

Table 7-3 WLI Domain Configuration Summary (Continued)

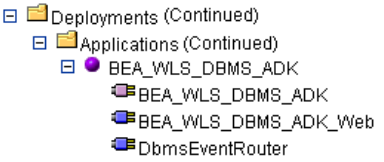
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for all `BEA_WLS_DBMS_ADK` components is the administrative server.	The target for all `BEA_WLS_DBMS_ADK` components is the cluster. **Note:** To complete the configuration of the clustered domain, you must target the `DbmsEventRouter` Web Application to a single managed server. See "Completing the Configuration of a Clustered Domain" on page 7-6.

Table 7-3 WLI Domain Configuration Summary (Continued)

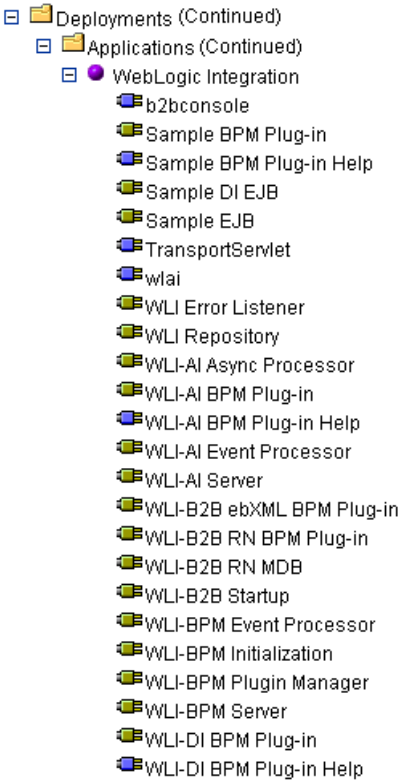
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for all `WebLogic Integration` components is the administrative server.	Except for the components noted below, the target for all `WebLogic Integration` components is the cluster. The target for the following component is the administrative server only: ■ `b2bconsole` The target for the following components is both the administrative server and the cluster: ■ `WLI Repository` ■ `WLI B2B Startup`
	The `WLI_AI Admin Only` application is not deployed on a standalone server.	The target for the `WLI_AI Admin Only` component is the administrative server.

Table 7-3 WLI Domain Configuration Summary (Continued)

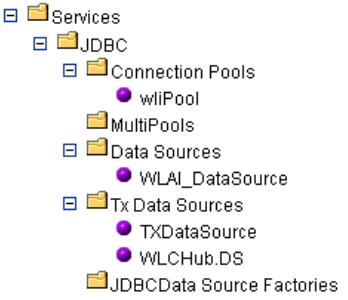
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	Only `LwcStartup` and `WLCShutdown` are deployed. The target for both is the administrative server.	Only `WLCShutdown` and `WLCShutdown-`*`mycluster`* are deployed. The target is for `WLCShutdown` is the administrative server, the target for `WLCShutdown-`*`mycluster`* is the cluster.
	The target for all JDBC services is the administrative server.	The target for the following JDBC services is the cluster: ■ `WLAI_DataSource` ■ `TXDataSource` The target for the following JDBC services is both the administrative server and the cluster: ■ `wliPool` ■ `WLCHub.DS`

Table 7-3 WLI Domain Configuration Summary (Continued)

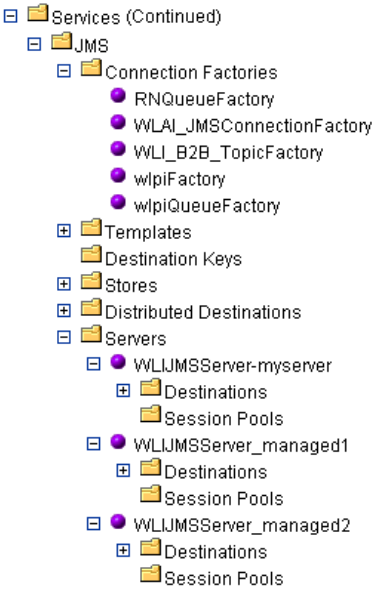
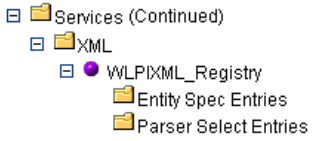
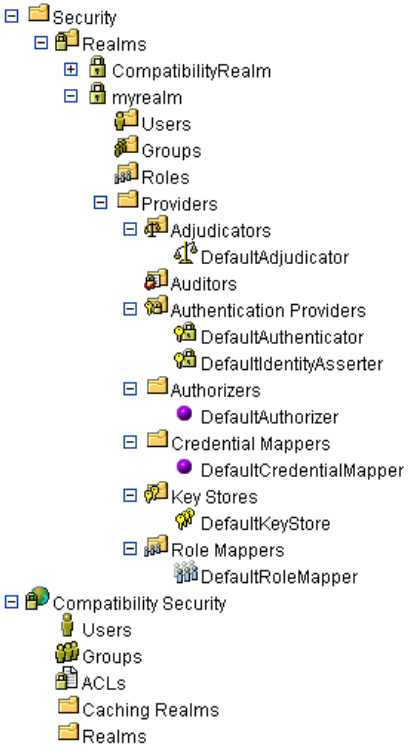
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for all JMS services is the administrative server.	The target for the following JMS services is the cluster: ■ `RNQueueFactory` ■ `WLAI_JMSConnectionFactory` ■ `wlpiFactory` ■ `wlpiQueueFactory` The target for the following JMS service is the administrative server: ■ `WLIJMSServer-myserver` A JMS server is defined for each managed server (for example, `WLIJMSServer_`*`managed`*). The target is the managed server for which the JMS server has been defined and is migratable. The target for the following JMS service is both the administrative server and the cluster: ■ `WLI_B2B_TopicFactory`
	The target for the `WLPIXML_Registry` is the administrative server.	The target for the `WLPIXML_Registry` is the administrative server.
	The target for the `wlpiMailSession` is the administrative server.	The target for the `wlpiMailSession` is the cluster.

Table 7-3 WLI Domain Configuration Summary (Continued)

Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The security configuration is not dependent on the server type selected. As described in "Security Compatibility" on page 7-7, the default security mode for the WLI Domain template is the WebLogic Server 6.x file-based realm in compatibility mode (FileRealm). For information about setting up and managing security for WebLogic Integration solutions, see "Using WebLogic Integration Security" in *Deploying BEA WebLogic Integration Solutions* at the following URL: `http://e-docs.bea.com/wli/docs70/deploy/secure.htm`	

Note: Once you start the administrative server for your new domain, you can view the application components by type (for example, EJB, Web Application, or Connector Component) in the WebLogic Administration Console.

CHAPTER

8 EAI Domain Template

The enterprise application integration (EAI) Domain template can be used to create a domain that supports WebLogic Integration business process management (BPM), data integration, and application integration functionality.

This section describes the EAI Domain template and provides the information you need to configure a fully functional domain based on the EAI Domain template.

This section includes the following topics:

- Template Description
- Creating a Domain Based on the EAI Domain Template
- Security Compatibility
- Configuration and Supporting Files
- Applications and Resources

Template Description

The EAI Domain template creates a domain that supports the following WebLogic Integration functionality:

- Business process management (BPM)
- Data integration
- Application integration

The EAI Domain template supports only two of the four Configuration Wizard server types:

- Single Server (Standalone Server)
- Admin Server with Clustered Managed Server(s)

The EAI Domain template does not support:

- Admin Server with Managed Server(s)
- Managed Server (with owning Admin Server Configuration)

Note: These options are not intended for use with the EAI Domain template. If you select the Admin Server with Managed Server(s) or Managed Server option, an invalid configuration will result.

Purpose

The EAI Domain template is intended to create a domain that supports the development and testing of applications that employ BPM, data integration, and application integration functionality, but which do not require B2B integration, WebLogic Portal or WebLogic Workshop functionality.

Creating a Domain Based on the EAI Domain Template

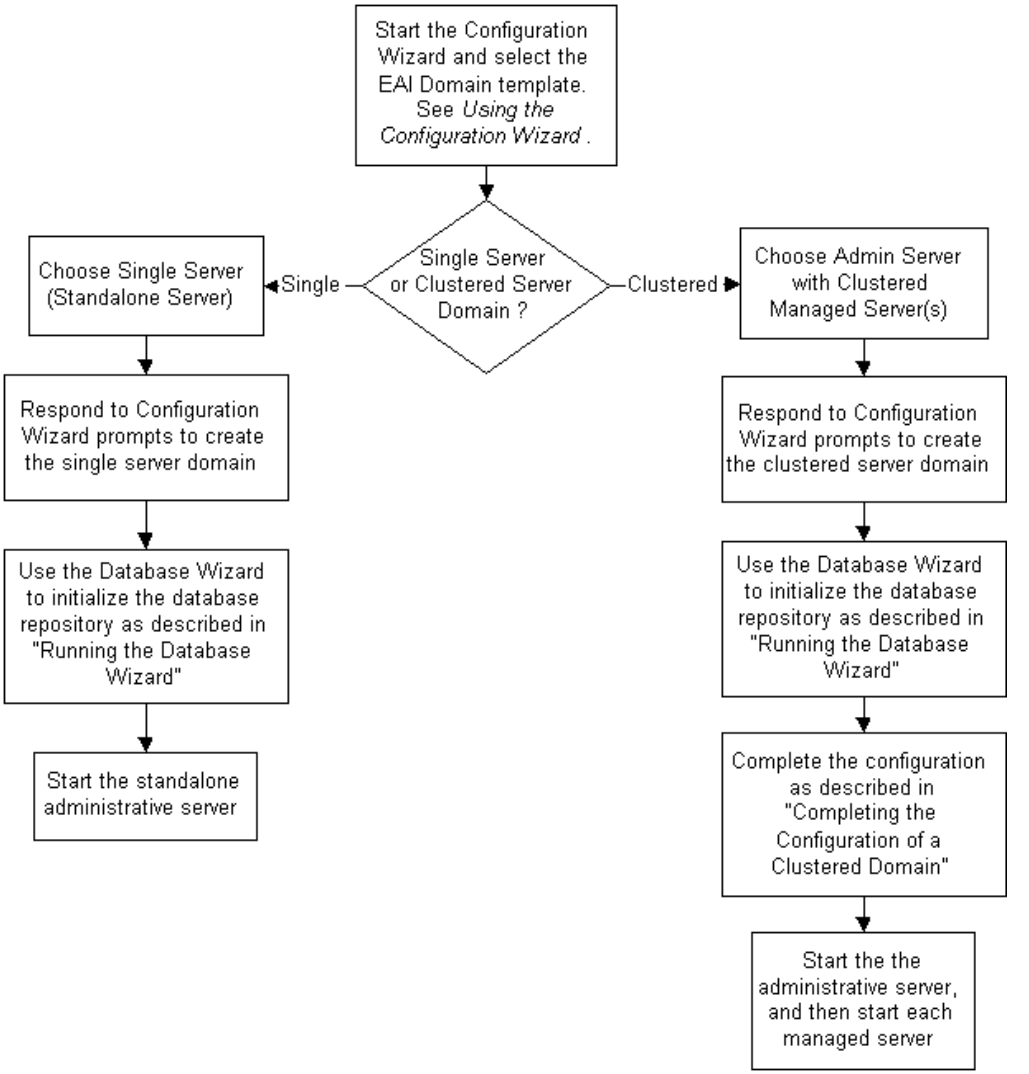
This section describes how to create a fully functional domain based on the EAI Domain template. It includes the following topics:

- Process Overview
- Running the Database Wizard
- Completing the Configuration of a Clustered Domain

Process Overview

Figure 8-1 provides an overview of the steps required to create a standalone server or clustered server domain based on the EAI Domain template.

Figure 8-1 Creating a Domain Based on the EAI Domain Template



Note: In the Configuration Wizard, the Configure Standalone/Administrative Server dialog box presents a default server name, `myserver`. We recommend that you accept the default name. If you choose to rename the administrative server, you must rename *`DOMAIN_HOME`*`/applications/DefaultWebApp_myserver` to *`DOMAIN_HOME`*`/applications/DefaultWebApp_`*`servername`*

Here, *`DOMAIN_HOME`* represents the root directory of the custom domain you created using the Configuration Wizard (for example, `c:\bea\user_projects\mydomain`) and *`servername`* represents the name you assigned to the administrative server in the dialog box.

For additional information about the Configuration Wizard prompts, see *Using the Configuration Wizard* at the following URL:

`http://e-docs.bea.com/platform/docs70/confgwiz/index.html`

The following sections provide the information you need to run the Database Wizard and complete the configuration of a clustered domain.

Note: Before you run the Database Wizard, make the changes required to complete the configuration of a clustered domain, or start the administrative server, we recommend that you back up the *`DOMAIN_HOME`*`/config.xml` file. This will allow you to easily restore the initial configuration. In addition, the `config.xml` file created by the EAI Domain template contains comments which are lost when you run the Database Wizard or start the administrative server.

Running the Database Wizard

When you use the Configuration Wizard to create a domain based on the EAI Domain template, a domain-specific version of the Database Wizard is installed in the *`DOMAIN_HOME`* directory. You must run the Database Wizard for the domain to initialize the database repository with the required tables and system data. For instructions, see "Using the Database Wizard" in "Customizing WebLogic Integration" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL:

`http://e-docs.bea.com/wli/docs70/config/custom.htm`

Until you have used the Database Wizard to initialize the WebLogic Integration database, you will be unable to start any server in the new domain.

Completing the Configuration of a Clustered Domain

If you selected the Admin Server with Clustered Managed Server(s) option, there are several tasks that must be performed to complete the configuration.

The following table lists each required configuration task and provides a cross-reference to the detailed procedure, which can be found in "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* at the following URL:

`http://e-docs.bea.com/wli/docs70/deploy/config.htm`

Table 8-1 Completing the Configuration of a Clustered Domain

To complete this task . . .	Refer to . . .
Edit the `config.xml` file to target the WLI-BPM Plugin Manager (`wlpi-master-ejb.jar`) and the BPM EventTopic JMS topic (`com.bea.wlpi.EventTopic`) to a single managed server.	Step 4. Configure BPM Resources for One Managed Server
Edit the `config.xml` file to target the event router WAR files to a single managed server.	Step 5. Configure Event Router WAR File for Adapters
Set the `-Dweblogic.management.discover` parameter to `true` in the `StartWeblogic` command for the administrative server.	Step 8. Edit the startWeblogic Command File
For any managed server configured on a machine remote from the administrative server, you must do the following: 1. Install WebLogic Platform on the remote machine. At a minimum, you must install WebLogic Integration. 2. Copy the files required to start the managed server from the administrative server *`DOMAIN_HOME`* directory to a corresponding directory on the machine hosting the managed server. Update the files as required.	Step 9. Set Up Managed Servers for Your Domain

At a minimum, you must complete the tasks listed in the table. Depending on how you intend to use the domain, additional steps may be required to configure an RDBMS security realm, configure a software router, secure your server environment, configure the servers for automatic restart, or configure for migration of resources from a failed to a healthy node. See "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* for details.

Security Compatibility

The default security mode for the EAI Domain template is the WebLogic Server 6.x file-based realm in compatibility mode (FileRealm). The new WebLogic Server 7.0 LDAP-based realm is not supported with WebLogic Integration functionality.

If you are migrating from a WebLogic Integration 2.1 RDBMS realm, see "Migrating from the RDBMS Realm" in "Migrating WebLogic Integration 2.1 to WebLogic Integration 7.0" in the *BEA WebLogic Integration Migration Guide* at the following URL:

`http://e-docs.bea.com/wli/docs70/migrate/berlin.htm`

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

`http://edocs.bea.com/platform/docs70/secintro/index.html`

Configuration and Supporting Files

The following table summarizes the configuration and supporting files included in a domain based on the EAI Domain template.

Table 8-2 EAI Domain Directories and Files

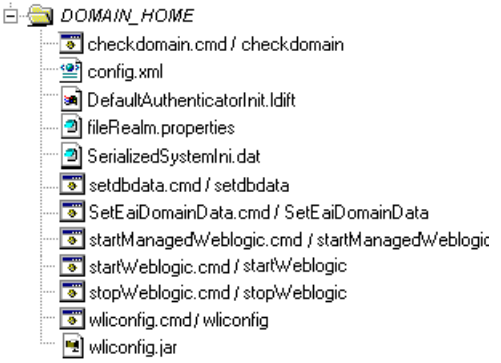
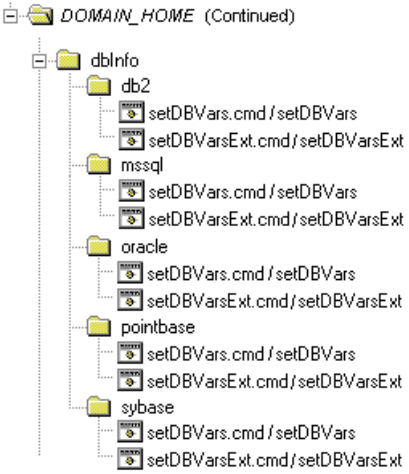
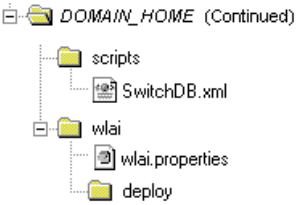
Files	Description
	The root of the domain contains the `config.xml` file, Windows and UNIX versions of the `startWebLogic` command (the command used to start the administrative server), `wliconfig` command (the command used to start the Database Wizard), and other WebLogic Integration specific commands. For additional information, see "WebLogic Integration Sample Configuration Files" and "WebLogic Integration Commands" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/config/index.htm`
	The applications directory initially contains only the `DefaultWebApp_myserver` directory. If you named your administrative server something other than `myserver`, you should not attempt to start the server until you have renamed this directory to `DefaultWebApp_`*`servername`*.

Table 8-2 EAI Domain Directories and Files (Continued)

Files	Description
	The `dbInfo` directory contains commands used by the Database Wizard to create and populate the database repository for the domain. For information about `setDBVars` and related commands, see "WebLogic Integration Commands" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/config/keycmd.htm`
	The scripts directory contains the `SwitchBB.xml` file, which is used by the Database Wizard to update the configuration to a new database. The `wlai` directory contains the `wlai.properties` file and `deploy` directory.

Applications and Resources

This section provides a summary of the applications and resources configured in a domain based on the EAI Domain template. The targets indicated represent the initial configuration. If you selected Admin Server with Clustered Managed Server(s), you must modify the configuration for the WLI-BPM Plugin Manager, the BPM EventTopic JMS Topic, and the event router WAR files to target a single managed server. See "Completing the Configuration of a Clustered Domain" on page 8-5.

Table 8-3 EAI Domain Configuration Summary

Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	A single server, `myserver`, is configured.	An administrative server, `myserver`, and one or more managed servers are created as defined in the Configuration Wizard.
	No cluster is created.	A single cluster, named as specified in the Configuration Wizard, is created. All managed servers defined are assigned to the single cluster.

Table 8-3 EAI Domain Configuration Summary (Continued)

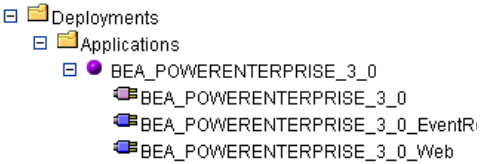
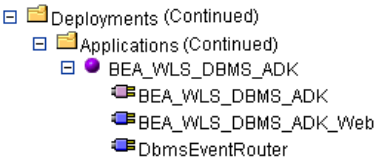
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for all `BEA_POWERENTERPRISE_3_0` components is the administrative server.	The target for all `BEA_POWERENTERPRISE_3_0` components is the cluster. **Note:** To complete the configuration of the clustered domain, you must target the `BEA_POWERENTERPRISE_3_0_EventRouter` Web Application to a single managed server. See "Completing the Configuration of a Clustered Domain" on page 8-5.
	The BEA WebLogic Adapter for Power.Enterprise! (`BEA_POWERENTERPRISE_3_0`), in conjunction with BEA EDI Connect for WebLogic Integration (purchased separately as Power.Enterprise!), provides EDI Integration with capabilities for transforming, transmitting, and receiving EDI messages. For additional information, see *Using EDI with WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/edi/index.htm` **Note:** The BEA WebLogic Adapter for Power.Enterprise! 3.0 supports both the 3.0 and 3.1 versions of Power.Enterprise!.	
	The target for all `BEA_WLS_DBMS_ADK` components is the administrative server.	The target for all `BEA_WLS_DBMS_ADK` components is the cluster. **Note:** To complete the configuration of the clustered domain, you must target the `DbmsEventRouter` Web Application to a single managed server. See "Completing the Configuration of a Clustered Domain" on page 8-5.

Table 8-3 EAI Domain Configuration Summary (Continued)

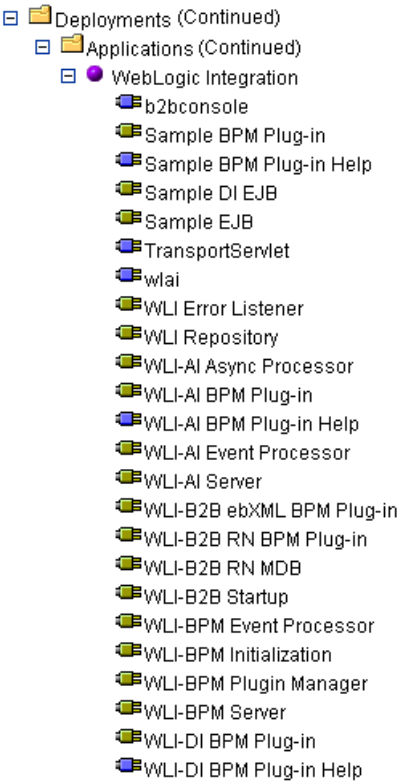
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	Except for the components noted below, the target for all `WebLogic Integration` components is the administrative server. The target for the following components is null (no target defined): ■ `b2bconsole` ■ `WLI-B2B Startup` ■ `TransportServlet` ■ `WLI-B2B RN MDB` ■ `WLI-B2B RN BPM Plug-in` ■ `WLI-B2B ebXML BPM Plug-in` ■ `Sample EJB` ■ `Sample BPM Plug-in` ■ `Sample BPM Plug-in Help` ■ `Sample DI EJB`	Except for the components noted below, the target for all `WebLogic Integration` components is the cluster. The target for the following components is null (no target defined): ■ `b2bconsole` ■ `WLI-B2B Startup` ■ `TransportServlet` ■ `WLI-B2B RN MDB` ■ `WLI-B2B RN BPM Plug-in` ■ `WLI-B2B ebXML BPM Plug-in` ■ `Sample EJB` ■ `Sample BPM Plug-in` ■ `Sample BPM Plug-in Help` ■ `Sample DI EJB`
	The `WLI_AI Admin Only` component is not deployed on a standalone server.	The target for the `WLI_AI Admin Only` component is the administrative server.

Table 8-3 EAI Domain Configuration Summary (Continued)

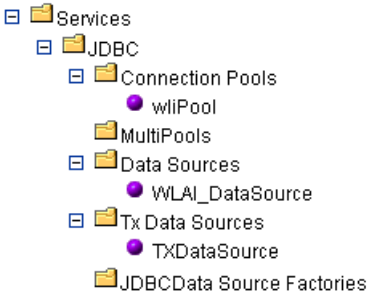
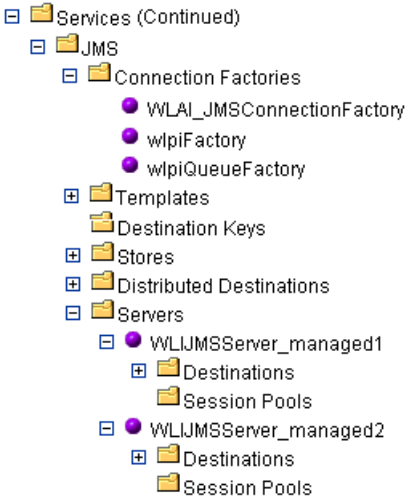
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for all JDBC services is the administrative server.	The target for all JDBC services is the cluster:
	A single JMS server, `WLIJMSServer`, is defined. The target for all JMS services is the administrative server.	The target for the following JMS services is the cluster: ■ `WLAI_JMSConnectionFactory` ■ `wlpiFactory` ■ `wlpiQueueFactory` A JMS server is defined for each managed server (for example, `WLIJMSServer_managed`). The target is the managed server for which the JMS server has been defined and is migratable.

Table 8-3 EAI Domain Configuration Summary (Continued)

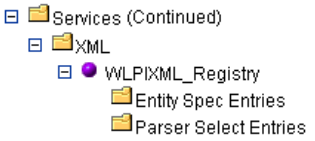
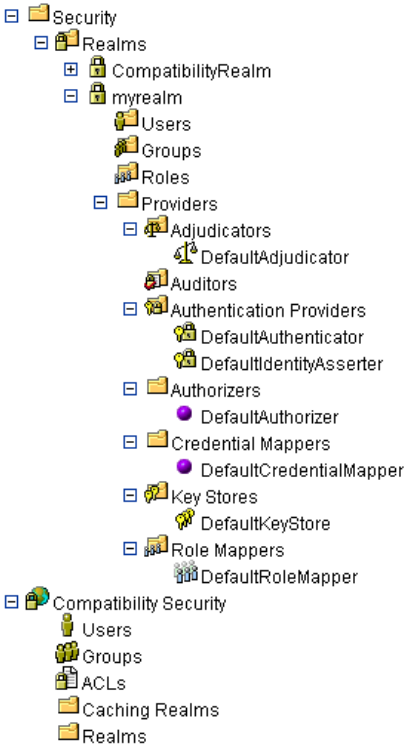
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for the `WLPIXML_Registry` is the administrative server.	The target for the `WLPIXML_Registry` is the administrative server.
	The target for the `wlpiMailSession` is the administrative server.	The target for the `wlpiMailSession` is the cluster.

Table 8-3 EAI Domain Configuration Summary (Continued)

Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The security configuration is not dependent on the server type selected. As described in "Security Compatibility" on page 8-6, the default security mode for the EAI Domain template is the WebLogic Server 6.x file-based realm in compatibility mode (FileRealm). For information about setting up and managing security for WebLogic Integration solutions, see "Using WebLogic Integration Security" in *Deploying BEA WebLogic Integration Solutions* at the following URL: `http://e-docs.bea.com/wli/docs70/deploy/secure.htm`	

Note: Once you start the administrative server for your new domain, you can view the application components by type (for example, EJB, Web Application, or Connector Component) in the WebLogic Administration Console.

CHAPTER

9 BPM Domain Template

The business process management (BPM) Domain template can be used to create a domain that supports WebLogic Integration business process management (BPM) and data integration functionality.

This section describes the BPM Domain template and provides the information you need to configure a fully functional domain based on the BPM Domain template.

This section includes the following topics:

- Template Description
- Creating a Domain Based on the BPM Domain Template
- Security Compatibility
- Configuration and Supporting Files
- Applications and Resources

Template Description

The BPM Domain template creates a domain that supports the following WebLogic Integration functionality:

- Business process management (BPM)
- Data integration

The BPM Domain template supports only two of the four Configuration Wizard server types:

- Single Server (Standalone Server)
- Admin Server with Clustered Managed Server(s)

The BPM Domain template does not support:

- Admin Server with Managed Server(s)
- Managed Server (with owning Admin Server Configuration)

Note: These options are not intended for use with the BPM Domain template. If you select the Admin Server with Managed Server(s) or Managed Server option, an invalid configuration will result.

Purpose

The BPM Domain template is intended to create a domain that supports the development and testing of applications that employ BPM and data integration functionality, but which do not require application integration, B2B integration, WebLogic Portal or WebLogic Workshop functionality.

Creating a Domain Based on the BPM Domain Template

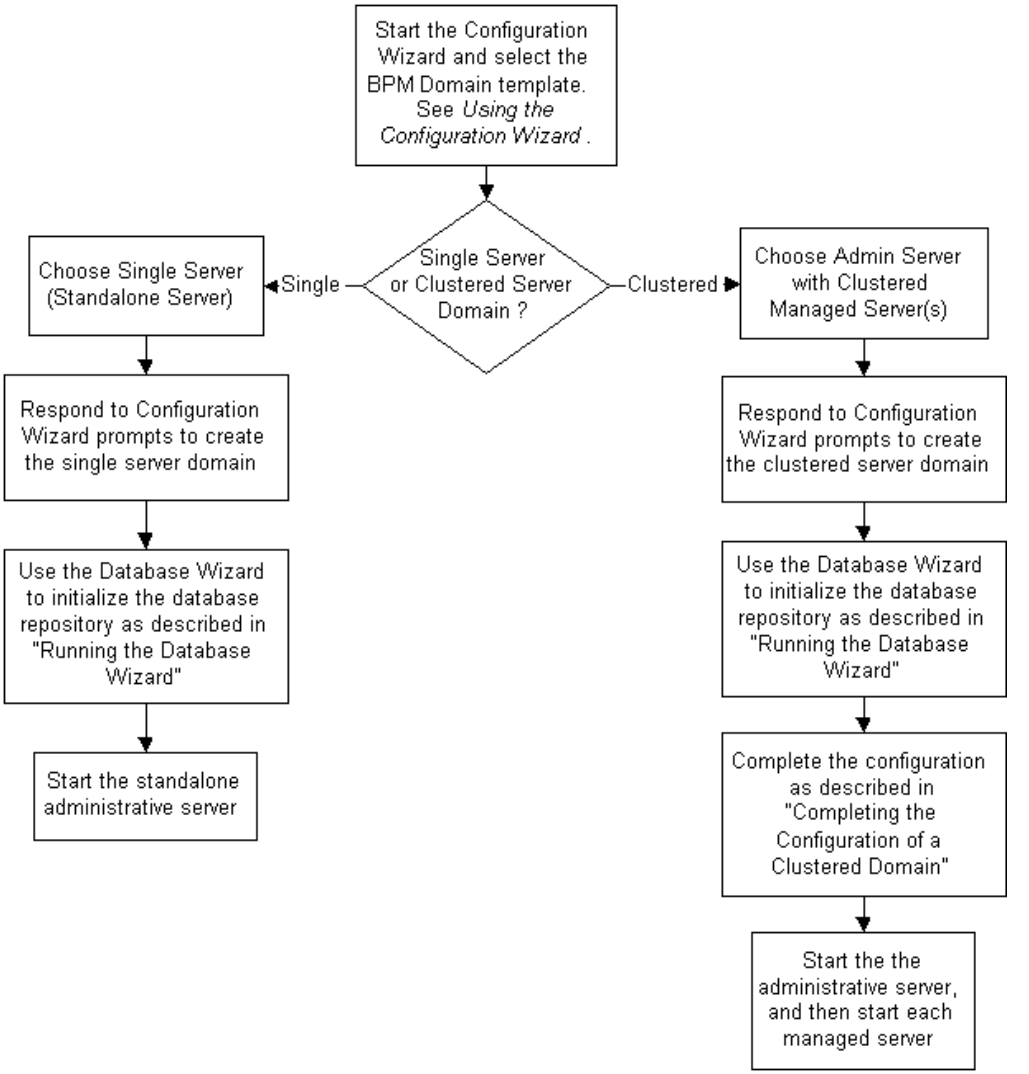
This section describes how to create a fully functional domain based on the BPM Domain template. It includes the following topics:

- Process Overview
- Running the Database Wizard
- Completing the Configuration of a Clustered Domain

Process Overview

Figure 9-1 provides an overview of the steps required to create a standalone server or clustered server domain based on the BPM Domain template.

Figure 9-1 Creating a Domain Based on the BPM Domain Template



Note: In the Configuration Wizard, the Configure Standalone/Administrative Server dialog box presents a default server name, `myserver`. We recommend that you accept the default name. If you choose to rename the administrative server, you must rename *`DOMAIN_HOME`*`/applications/DefaultWebApp_myserver` to *`DOMAIN_HOME`*`/applications/DefaultWebApp_`*`servername`*

Here, *`DOMAIN_HOME`* represents the root directory of the custom domain you created using the Configuration Wizard (for example, `c:\bea\user_projects\mydomain`) and *`servername`* represents the name you assigned to the administrative server in the dialog box.

For additional information about the Configuration Wizard prompts, see *Using the Configuration Wizard* at the following URL:

`http://e-docs.bea.com/platform/docs70/confgwiz/index.html`

The following sections provide the information you need to run the Database Wizard and complete the configuration of a clustered domain.

Note: Before you run the Database Wizard, make the changes required to complete the configuration of a clustered domain, or start the administrative server, we recommend that you back up the *`DOMAIN_HOME`*`/config.xml` file. This will allow you to easily restore the initial configuration. In addition, the `config.xml` file created by the BPM Domain template contains comments which are lost when you run the Database Wizard or start the administrative server.

Running the Database Wizard

When you use the Configuration Wizard to create a domain based on the BPM Domain template, a domain-specific version of the Database Wizard is installed in the *`DOMAIN_HOME`* directory. You must run the Database Wizard for the domain to initialize the database repository with the required tables and system data. For instructions, see "Using the Database Wizard" in "Customizing WebLogic Integration" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL:

`http://e-docs.bea.com/wli/docs70/config/custom.htm`

Until you have used the Database Wizard to initialize the WebLogic Integration database, you will be unable to start any server in the new domain.

Completing the Configuration of a Clustered Domain

If you selected the Admin Server with Clustered Managed Server(s) option, there are several tasks that must be performed to complete the configuration.

The following table lists each required configuration task and provides a cross-reference to the detailed procedure, which can be found in "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* at the following URL:

`http://e-docs.bea.com/wli/docs70/deploy/config.htm`

Table 9-1 Completing the Configuration of a Clustered Domain

To complete this task . . .	Refer to . . .
Edit the `config.xml` file to target the WLI-BPM Plugin Manager (`wlpi-master-ejb.jar`) and the BPM EventTopic JMS topic (`com.bea.wlpi.EventTopic`) to a single managed server.	Step 4. Configure BPM Resources for One Managed Server
Set the `-Dweblogic.management.discover` parameter to `true` in the `StartWeblogic` command for the administrative server.	Step 8. Edit the startWeblogic Command File
For any managed server configured on a machine remote from the administrative server, you must do the following: 1. Install WebLogic Platform on the remote machine. At a minimum, you must install WebLogic Integration. 2. Copy the files required to start the managed server from the administrative server *`DOMAIN_HOME`* directory to a corresponding directory on the machine hosting the managed server. Update the files as required.	Step 9. Set Up Managed Servers for Your Domain

At a minimum, you must complete the tasks listed in the table. Depending on how you intend to use the domain, additional steps may be required to configure an RDBMS security realm, configure a software router, secure your server environment, configure the servers for automatic restart, or configure for migration of resources from a failed to a healthy node. See "Configuring a Clustered Deployment" in *Deploying BEA WebLogic Integration Solutions* for details.

Security Compatibility

The default security mode for the BPM Domain template is the WebLogic Server 6.x file-based realm in compatibility mode (FileRealm). The new WebLogic Server 7.0 LDAP-based realm is not supported with WebLogic Integration functionality.

If you are migrating from a WebLogic Integration 2.1 RDBMS realm, see "Migrating from the RDBMS Realm" in "Migrating WebLogic Integration 2.1 to WebLogic Integration 7.0" in the *BEA WebLogic Integration Migration Guide* at the following URL:

`http://e-docs.bea.com/wli/docs70/migrate/berlin.htm`

For more information about WebLogic Platform security, refer to *Introduction to WebLogic Platform 7.0 Security* at the following URL:

`http://edocs.bea.com/platform/docs70/secintro/index.html`

Configuration and Supporting Files

The following table summarizes the configuration and supporting files included in a domain based on the BPM Domain template.

Table 9-2 BPM Domain Directories and Files

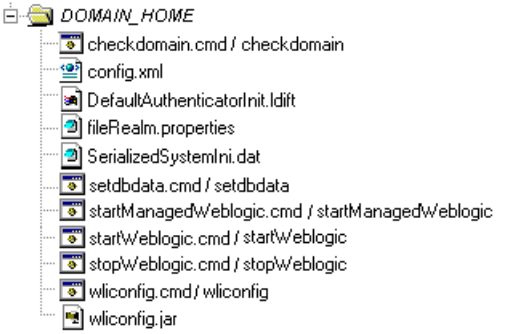
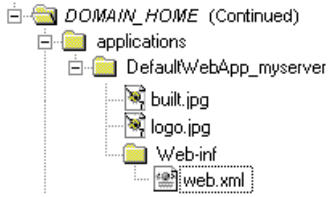
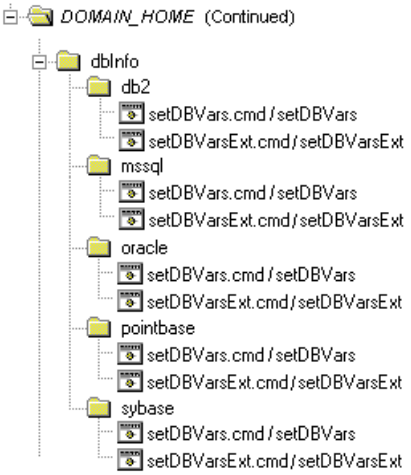
Files	Description
	The root of the domain contains the `config.xml` file, Windows and UNIX versions of the `startWebLogic` command (the command used to start the administrative server), `wliconfig` command (the command used to start the Database Wizard), and other WebLogic Integration specific commands. For additional information, see "WebLogic Integration Sample Configuration Files" and "WebLogic Integration Commands" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/config/index.htm`
	The applications directory initially contains only the `DefaultWebApp_myserver` directory. If you named your administrative server something other than `myserver`, you should not attempt to start the server until you have renamed this directory to `DefaultWebApp_`*`servername`*.

Table 9-2 BPM Domain Directories and Files (Continued)

Files	Description
	The `dbInfo` directory contains commands used by the Database Wizard to create and populate the database repository for the domain. For information about `setDBVars` and related commands, see "WebLogic Integration Commands" in *Starting, Stopping, and Customizing BEA WebLogic Integration* at the following URL: `http://e-docs.bea.com/wli/docs70/config/keycmd.htm`
	The scripts directory contains the `SwitchBB.xml` file, which is used by the Database Wizard to update the configuration to a new database.

Applications and Resources

This section provides a summary of the applications and resources configured in a domain based on the BPM Domain template. The targets indicated represent the initial configuration. If you selected Admin Server with Clustered Managed Server(s), you must modify the configuration for the WLI-BPM Plugin Manager and the BPM EventTopic JMS Topic to target a single managed server. See "Completing the Configuration of a Clustered Domain" on page 9-5.

Table 9-3 BPM Domain Configuration Summary

Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	A single server, `myserver`, is configured.	An administrative server, `myserver`, and one or more managed servers are created as defined in the Configuration Wizard.
	No cluster is created.	A single cluster, named as specified in the Configuration Wizard, is created. All managed servers defined are assigned to the single cluster.

Table 9-3 BPM Domain Configuration Summary (Continued)

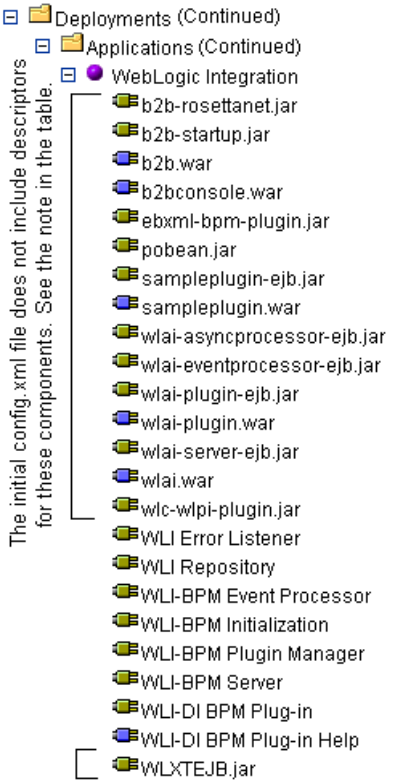
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for the following `WebLogic Integration` components is the administrative server: ■ `WLI Error Listener` ■ `WLI Repository` ■ `WLI-BPM Event Processor` ■ `WLI-BPM Initialization` ■ `WLI-BPM Plugin Manager` ■ `WLI-BPM Server` ■ `WLI-DI BPM Plug-in` ■ `WLI-DI BPM Plug-in Help`	The target for the following `WebLogic Integration` components is the cluster: ■ `WLI Error Listener` ■ `WLI-BPM Event Processor` ■ `WLI-BPM Initialization` ■ `WLI-BPM Plugin Manager` ■ `WLI-BPM Server` ■ `WLI-DI BPM Plug-in` ■ `WLI-DI BPM Plug-in Help` The target for the following component is both the administrative and the cluster: ■ `WLI Repository`
	Note: A number of the WebLogic Integration JAR and WAR files displayed in the navigation tree are not defined in the initial *`DOMAIN_HOME`*`/config.xml` file and therefore, no target is defined for these components. These JAR and WAR files are displayed because they are included in the definition of the WebLogic Integration application in the *`WLI_HOME`*`/lib/META-INF/application.xml` file.	

Table 9-3 BPM Domain Configuration Summary (Continued)

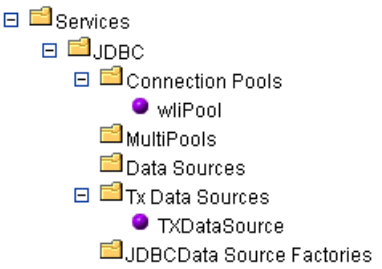
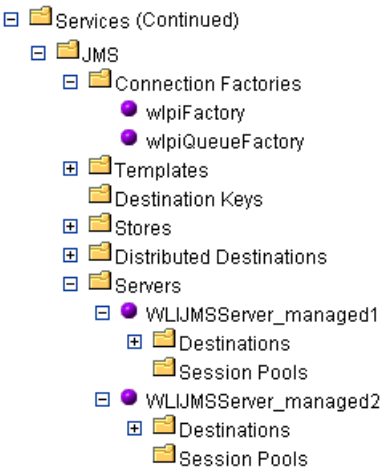
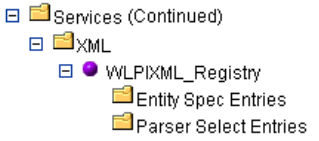
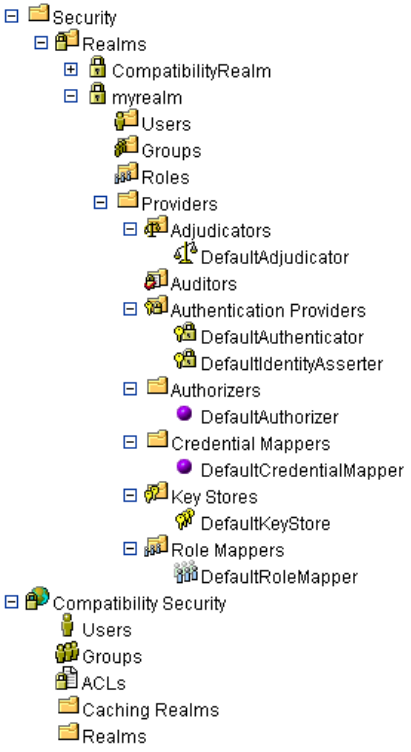
Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for all JDBC services is the administrative server.	The target for all JDBC services is the cluster.
	A single JMS server, `WLIJMSServer`, is defined. The target for all JMS services is the administrative server.	The target for the following JMS services is the cluster: ■ `wlpiFactory` ■ `wlpiQueueFactory` A JMS server is defined for each managed server (for example, `WLIJMSServer_managed`). The target is the managed server for which the JMS server has been defined and is migratable.
	The target for the `WLPIXML_Registry` is the administrative server.	The target for the `WLPIXML_Registry` is the administrative server.

Table 9-3 BPM Domain Configuration Summary (Continued)

Resource	If you selected Single Server (Standalone Server)	If you selected Admin Server with Clustered Managed Server(s)
	The target for the `wlpiMailSession` is the administrative server.	The target for the `wlpiMailSession` is the cluster.
	The security configuration is not dependent on the server type selected. As described in "Security Compatibility" on page 9-6, the default security mode for the BPM Domain template is the WebLogic Server 6.x file-based realm in compatibility mode (FileRealm). For information about setting up and managing security for WebLogic Integration solutions, see "Using WebLogic Integration Security" in *Deploying BEA WebLogic Integration Solutions* at the following URL: `http://e-docs.bea.com/wli/docs70/deploy/secure.htm`	

Note: Once you start the administrative server for your new domain, you can view the application components by type (for example, EJB, Web Application, or Connector Component) in the WebLogic Administration Console.

CHAPTER

10 WebLogic Portal Domain Template

This section includes the following topics:

- Template Description
- Creating a Domain Based on the WLP Domain Template
- Configuration and Supporting Files

Template Description

The WLP Domain template is used by the Configuration Wizard to create a WebLogic Portal domain. The domain that is created is a foundation upon which you build portals. The domain includes the configuration files, database, and scripts that define and run your server environment, provides a default security realm and predefined system administrators, and provides a set of WebLogic Portal administration tools. The template also creates supporting files and services for building portals and developing personalization and commerce functionality.

The template, which is made up of a central template file and many directories and files, is located in a JAR file in the following directory:

```
<BEA_HOME>/weblogic700/common/templates/domains/portal.jar
```

Inside the `portal.jar` file, the central template file, `template.xml`, is located in the `META-INF` subdirectory.

Other files and directories used by the template, but not included in `portal.jar`, are located in `<BEA_HOME>/weblogic700/common/templates/shared`.

No sample application data is provided with this template.

Purpose

Use the WLP Domain template in the Configuration Wizard to create a new domain that lets you build portals, take advantage of portal functionality, and implement WebLogic Portal's standard set of powerful personalization and commerce services.

Creating a Domain Based on the WLP Domain Template

This section describes how to create a functional domain based on the WLP Domain template. It includes the following topics:

- Process Overview
- Completing the Configuration of a Clustered Domain

Process Overview

The following table provides an overview of the steps required to create a domain based on the WLP Domain template.

Task	Refer to...
1. Initiate the Configuration Wizard to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`

Task	Refer to...
2. Select the WLP Domain template and respond to the prompts to create a new domain.	*Using the Configuration Wizard* at the following URL: `http://edocs.bea.com/platform/docs70/confgwiz/index.html`
3. If you set created a clustered domain, additional steps are required.	"Completing the Configuration of a Clustered Domain" on page 10-3.
4. Start WebLogic Server.	"Starting and Stopping the Server" in the "System Administration" section of the *BEA* WebLogic Portal *Administration Guide* at the following URL: `http://edocs.bea.com/wlp/docs70/admin/sysadmin.htm`

Completing the Configuration of a Clustered Domain

When running a clustered WebLogic Portal domain, data that is synchronized from the E-Business Control Center to the admin server must be properly replicated across all managed servers. Perform the following steps to ensure a sound synchronization process.

Also, if you are using WebLogic Portal's default content management services, you must perform additional setup tasks.

This section includes the following topics:

- Targeting Resources to the Admin Server
- Configuring a Proxy Server
- Configuring WebLogic Portal Content Management

Targeting Resources to the Admin Server

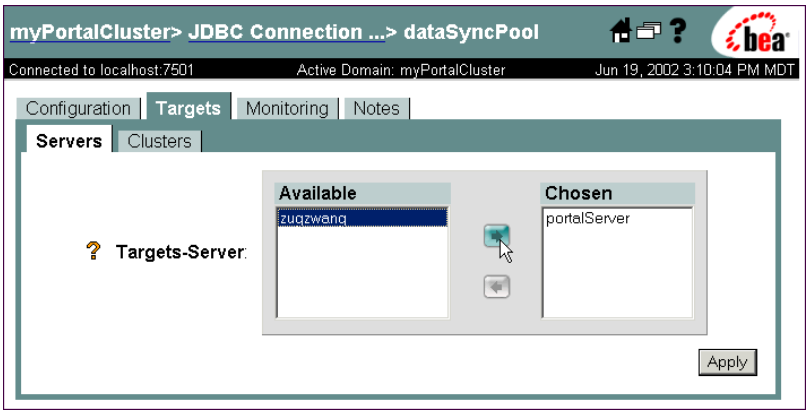
1. Launch the WebLogic Server Console tool for the domain. With the admin server running, enter the following URL:

   `http://<hostname>:<port>/console`

   For example, if you are launching the console on the server machine, the default URL is `http://localhost:7501/console`.

2. Target the datasyncPool JDBC Connection Pool to the admin server. Choose *domain* > Services > JDBC > Connection Pools > dataSyncPool, and on the Targets > Servers tab, make sure the admin server is in the Chosen list (Figure 10-1), and click Apply.

Figure 10-1 Targeting the datasyncPool Connection Pool



3. Target the datasyncPool Transactional DataSource to the admin server (in addition to the cluster). Choose *domain* > Services > JDBC > Tx Data Sources > dataSyncPool, and on the Targets > Servers tab, move all servers from the Available list to the Chosen list, and click Apply.

4. Target the datasync Web application to the admin server (in addition to the cluster). Choose *domain* > Deployments > Web Applications > datasync, and on the Targets > Servers tab, move all servers from the Available list to the Chosen list, and click Apply.

5. Restart the admin server and any managed servers. (The JDBC connection pool targeting requires a server restart.) You might receive errors in the console when attempting this. If so, try editing the `config.xml` file in your domain folder to add the admin server to the `Targets` attribute of the following elements:
   - `<JDBCConnectionPool ... Name="datasyncPool" Targets=" ">`
   - `<JDBCTxDataSource ... Name="datasyncPool" Targets=" ">`
   - `<WebAppComponent ... Name="datasync" Targets=" ">`

For information about configuring clusters, refer to *Using WebLogic Server Clusters* at `http://edocs.bea.com/wls/docs70/cluster/index.html`.

Configuring a Proxy Server

You will also need to configure a cluster proxy server. See *Using WebLogic Server Clusters* at `http://e-docs.bea.com/wls/docs70/cluster/index.html`.

The easiest way to configure a cluster proxy for your domain is to use the `weblogic.servlet.proxy.HttpClusterServlet`. See "Configure Proxy Plug-Ins" in "Setting up WebLogic Clusters" at the following URL: `http://e-docs.bea.com/wls/docs70/cluster/setup.html`.

You can deploy a Web application with the HttpClusterServlet for your cluster to the admin server of the cluster and make it the admin server's default Web application. In this situation, be sure to map only the Web applications that are available through the cluster (for example, the WebLogic Portal Administration Tools at /portalAppTools/* and any portals or Web applications you add). In particular, be sure that /p13nConsole/* and /portalAppDataSync/* are not mapped by the HttpClusterServlet (if datasync is configured for the cluster).

Configuring WebLogic Portal Content Management

If you use WebLogic Portal's standard content management services, do one of the following:

- Target the commercePool to the admin server (*domain* > Services > JDBC > Connection Pools > commercePool), (since the `loaddocs.properties` file will be pointing to the admin server host and port), or
- Modify the `loaddocs.properties` file (in the domain directory) to point to a node in the cluster which has the commercePool deployed, or

- Modify the `loaddocs.properties` file to set the `directToDB` JDBC information to point to the appropriate database. By default, `loaddocs.properties` points to the included PointBase database. Then pass `-conPool directToDB` on the command line when invoking `loaddocs.bat(sh)` and `loadads.bat(sh)`.

Configuration and Supporting Files

The WLP Domain template will create various directories and scripts under the new domain. The following table is a list of some of the directories and files that are installed with the domain.

Note: The following table is not a complete list of all directories and files.

Directory	Files	Purpose
`<domain>`	`config.xml`	Defines your server configuration.
	`create_db*`, `db_settings.properties`	Database creation script and properties file (for storing database server name, location, and so on).
	`loadads*`, `loaddocs*`	Scripts for loading content metadata into the database when using WebLogic Portal's standard content management services.
	`start*`, `stop*`	Scripts for starting and stopping the server(s).
	`demokey.pem`, `democert.pem`	Provide sample SSL protocol support for servers in the domain.
`<domain>/beaApps`		Contains the directories of all enterprise applications and enterprise-level services in the domain, as explained in the following rows.

Directory	Files	Purpose
<domain>/beaApps/paymentWSApp	payment.jar	Provides services for creating or connecting to a third-party payment Web service for commerce transactions.
<domain>/beaApps/portalApp	campaign.jar, catalogws.jar, commerce_campaign_bridge_util.jar, commerce_util.jar, customer.jar, document.jar, ebusiness.jar, ejbadvisor.jar, events.jar, ldapprofile.jar, mail.jar, p13n_util.jar, payment.jar, pipeline.jar, placeholder.jar, portal.jar, portal_util.jar, property.jar, rules.jar, tax.jar, usermgmt.jar	The default portal enterprise application under which you can build portals. These JARs enable the portal framework and provide such services as personalization, campaigns, commerce, and LDAP integration. The enterprise application also includes Web applications for: ■ E-Business Control Center data synchronization to the server (datasync/). ■ The WebLogic Portal Administration Tools (tools/) that let you create and manage users, manage portals, and manage commerce features.
<domain>/beaApps/portalApp-project	portalApp-project.eaprj	This directory contains the infrastructure for creating and managing E-Business Control Center data for the enterprise application. The project file (portalApp-project.eaprj) manages all E-Business Control Center data and stores the information necessary to synchronize data to the server and retrieve server-side properties for defining queries. Also included are sets of predefined portal skins and layouts (/application-sync/library/portal/).
<domain>/beaApps/taxWSApp	tax.jar	Provides services for creating or connecting to a third-party tax Web service for commerce transactions.

Directory	Files	Purpose
<domain>/dmsBase		Contains placeholder directories for WebLogic Portal's standard content management services. Contains the following: ■ /Ads – Placeholder directory for storing Web content and its metadata that is loaded into the database with the loadads script. ■ /doc-schemas – Placeholder directory for storing metadata schemas. Schemas provide drop-down list functionality for defining queries against the content in the E-Business Control Center.
<domain>/pointbase	pointbase.ini, wlportal.dbn, wlportal$1.wal	pointbase.ini contains the default configuration for the PointBase database to run when the server is started. wlportal.dbn is the database node file used to store the actual data and metadata associated with the database. wlportal$1.wal is a write ahead log file and is used to maintain a record of all transactions against the database. If the system were to crash, this file aids in the recovery of information by performing a rollback to the last consistent state.

You can see examples of the pieces in a domain by viewing the WebLogic Portal examples, especially the Example Portal. The Example Portal domain is in <BEA_HOME>/weblogic700/samples/portal/sampleportalDomain.

For additional information about configuring your domain, refer to *Creating and Configuring WebLogic Domains* at http://edocs.bea.com/wls/docs70/admin_domain/index.html