

## **Oracle® Fusion Middleware**

Release Notes for Oracle HTTP Server

12c (12.2.1.2.0)

**E78108-02**

December 2016

This document contains important release information about Oracle HTTP Server 12c (12.2.1.2).

Oracle Fusion Middleware Release Notes for Oracle HTTP Server, 12c (12.2.1.2.0)

E78108-02

Copyright © 2016, Oracle and/or its affiliates. All rights reserved.

Primary Author: Tom Pfaeffle

Contributors: Kevin Clark, Leonard Bottleman, Sriram Natarajan, Sebastian Arockiasamy, Rajendra Pokle

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

---

---

# Contents

Preface .....	v
Audience .....	v
Documentation Accessibility .....	v
Related Documents.....	v
Conventions.....	vi
<b>1 Oracle HTTP Server</b>	
1.1 Known Issues .....	1-1
1.1.1 WLS Plug-ins for Apache .....	1-1
1.1.2 Upgrading from Earlier Releases of Oracle HTTP Server .....	1-1
1.1.3 Known Issues in Oracle HTTP Server .....	1-1
1.2 Issues Resolved .....	1-4



---

# Preface

This document contains important release information about Oracle HTTP Server 12c (12.2.1.2.0).

## Audience

*Release Notes for Oracle HTTP Server Release Notes* is intended for application server administrators, security managers, and managers of databases used by application servers. This documentation is based on the assumption that readers are already familiar with Apache HTTP Server.

Unless otherwise mentioned, the information in this document is applicable when Oracle HTTP Server is installed with Oracle WebLogic Server and Oracle Fusion Middleware Control. It is assumed that readers are familiar with the key concepts of Oracle Fusion Middleware as described in the *Understanding Oracle Fusion Middleware* and *Administering Oracle Fusion Middleware*.

For information about installing Oracle HTTP Server in standalone mode, see *Installing and Configuring Oracle HTTP Server*.

## Documentation Accessibility

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

### Access to Oracle Support

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

## Related Documents

For more information, see the following documents in the Oracle HTTP Server documentation set:

- *Administrator's Guide for Oracle HTTP Server*
- *Using Oracle WebLogic Server Proxy Plug-Ins 12.2.1*

## Conventions

The following text conventions are used in this document:

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

---

# Oracle HTTP Server

---

---

**Note:** For more information about significant updates in 12.2.1.2.0, see *New and Changed Features in 12c (12.2.1.2)* in *Administrator's Guide for Oracle HTTP Server*

---

## 1.1 Known Issues

The following sections describe known issues:

- [WLS Plug-ins for Apache](#)
- [Upgrading from Earlier Releases of Oracle HTTP Server](#)
- [Known Issues in Oracle HTTP Server](#)

[Issues Resolved](#), describes known issues in 12c (12.1.x) that have been resolved in Oracle HTTP Server 12c (12.2.1).

### 1.1.1 WLS Plug-ins for Apache

This issue applies to WLS plug-ins for Apache 2.2 on Windows only (not applicable for OHS or any other Listeners/Web Servers).

If an IPv6 address is specified for WebLogicHost/WebLogicCluster parameter, then WLS plug-in may be unable to resolve this IPv6 address. This is due to a bug in the APR library that is shipped Apache httpd 2.2.x (underlying APR library, libapr-1.dll), and is resolved in Apache httpd 2.2.24.

### 1.1.2 Upgrading from Earlier Releases of Oracle HTTP Server

To upgrade your Fusion Middleware environment (and OHS) to 12.2.1 from an earlier release, follow the instructions in *Upgrading with the Upgrade Assistant*. If you are upgrading a collocated Oracle HTTP Server setup (not a standalone installation), then you must perform some manual steps after you complete the Upgrade Assistant. For detailed information about these steps, see *Upgrading from Earlier Releases of Oracle HTTP Server* in *Administering Oracle HTTP Server*.

### 1.1.3 Known Issues in Oracle HTTP Server

This section contains descriptions of unresolved issues known to exist in Oracle HTTP Server 12c (12.2.1). The following sections describe these issues:

- [Server Configuration Page for OHS Fusion Middleware Control](#)
- [Continuously Hitting Web Application Through OHS on IBM-AIX Might Generate a Large Error Log](#)

- [DMS Displays Incorrect Message if OHS is Down](#)
- [No Automatic Port Allocation for Standalone Instances](#)
- [Oracle HTTP Server in Fusion Middleware Control Does Not Recognize Deployer Role](#)
- [Problem Setting MPM Name in Fusion Middleware Control](#)

### 1.1.3.1 Server Configuration Page for OHS Fusion Middleware Control

In the online Help text for this page, the following content applies:

In the console, the updated value of attributes is displayed even when the changes made in *edit Session* have not been activated.

This is not the case with the list of enabled modules displayed on the Server Configuration Page. It displays only those modules which are present under `<DOMAIN_HOME>/config/fmwconfig/components/OHS/<instanceName>/moduleconf` and does not include the modules that were enabled or disabled in the current session that is not yet activated.

### 1.1.3.2 Continuously Hitting Web Application Through OHS on IBM-AIX Might Generate a Large Error Log

IBM-AIX users continuously hitting a web application that has many users (for example, greater than 400) through Oracle HTTP Server might experience a large error log being generated. This is most likely a tuning issue that can be corrected by updating certain IBM-AIX system parameters and Oracle HTTP Server tuning parameters, as described as shown in the following examples.

#### For AIX system parameters:

In `/etc/security/limits`, should have the following parameters:

```
nofiles = -1
nofiles_hard = -1
```

In `/etc/rc.net`, should have the following parameters:

```
/usr/sbin/no -o sb_max=6192000
/usr/sbin/no -o tcp_sendspace=4096000
/usr/sbin/no -o tcp_recvspace=4096000
/usr/sbin/no -o udp_sendspace=65536
/usr/sbin/no -o udp_recvspace=655360
/usr/sbin/no -o rfc1323=1
/usr/sbin/no -o ipqmaxlen=150
/usr/sbin/no -o clean_partial_conns=true
```

You will need to reboot your machine.

#### For Oracle HTTP Server Configuration:

In `mod_wl_ohs.conf`, should look like the following: example:

```
LoadModule weblogic_module    "${PRODUCT_HOME}/modules/mod_wl_ohs.so"
# This empty block is needed to save mod_wl related configuration from EM to this
file when changes are made at the Base Virtual Host Level
```

```
<IfModule weblogic_module>
#     WebLogicHost <WEBLOGIC_HOST>
#     WebLogicPort <WEBLOGIC_PORT>
#     MatchExpression *.jsp
```



```

WebLogicCluster <host-name>:<port>,<host-name>:<port>,<host-name>:<port>
ConnectTimeoutSecs 99999 //[Optional parameter]
WLIOTimeoutSecs 99999 //[default value 300]
WLSocketTimeoutSecs 99999 //[default value 2]
MatchExpression *

<Location /diagservlet>
#     SetHandler weblogic-handler
      WLSRequest On
      WebLogicCluster
<host-name>:<port>,<host-name>:<port>,<host-name>:<port>
#     PathTrim /weblogic
#     ErrorPage http://WEBLOGIC_HOME:WEBLOGIC_PORT/
      </Location>

</IfModule>

```

In `httpd.conf`, set the following:

```

<IfModule mpm_worker_module>
-
-
-
MinSpareThreads    200 [default value 25]
MaxSpareThreads    800 [default value 75]
-
-
-
</IfModule>

```

### 1.1.3.3 DMS Displays Incorrect Message if OHS is Down

If you attempt to obtain metrics when Oracle HTTP Server is not running, DMS will display an incorrect message on `displayMetricTables.display`:

```

MetricTables(servers='ohs1',servertype='OHS') Traceback (innermost last):
  File "<console>", line 1, in ?
    File
"/scratch/oracle/Middleware/oracle_common/common/wlst/OracleDMS.py",
line 67, in displayMetricTables
    File
"/scratch/oracle/Middleware/oracle_common/common/script_handlers/oracle
dms_handler.py", line 1105, in oracledmsDisplayMetricTables
    File
"/scratch/oracle/Middleware/oracle_common/common/script_handlers/oracle
dms_handler.py", line 648, in oracledmsHandleException
NameError: ora_mbs

```

### 1.1.3.4 No Automatic Port Allocation for Standalone Instances

In the standalone mode, there is no automatic port allocation for Oracle HTTP Server instances.

### 1.1.3.5 Oracle HTTP Server in Fusion Middleware Control Does Not Recognize Deployer Role

WebLogic Server supports these default roles: Admin, Deployer, Operator, and Monitor. In previous release, the Deployer role was supported in the JMX Framework and Fusion Middleware Control.

The user of the Deployer role will be able to log in to Fusion Middleware Control. For the particular page or integrator area, whether or not the Deployer role should be enabled, depends on the page's functionality and Deployer role privileges. It is up to the page or integrator owner (such as Oracle HTTP Server, IDM, and so on) to decide. Oracle HTTP Server does not support the Deployer role since this role does not make sense for the proxy tier such as Oracle Traffic Director or Oracle HTTP Server.

### 1.1.3.6 Problem Setting MPM Name in Fusion Middleware Control

There is an intermittent problem in setting the MPM Name value of the Performance Directives page of Fusion Middleware Control.

An error message appears and displays the text:

Error Setting performance Directives

**Workaround:**

If you encounter this error, retry the operation until it succeeds.

### 1.1.3.7 Metrics Fail to Load after Restarting the OHS through Oracle Enterprise Manager Fusion Middleware Control Console on HPIA

After a successful collocated OHS installation on the HPIA64 platform, the OHS startup metrics will fail to load if you restart the OHS instance through the Oracle Enterprise Manager Fusion Middleware Control console. You might get errors like: "Metrics are currently unavailable", or "Metrics are not configured."

**Workaround:**

To resolve this issue, logout and log in from Oracle Enterprise Manager Fusion Middleware Control console once the OHS starts.

## 1.2 Issues Resolved

The following table describes the resolved issues:

Issue	Description	Reported In OHS Version
Start and Stop scripts require directory write permission	The startComponent.sh and stopComponent.sh scripts fail when executed from a directory without write permission.	12.1.3.0.0

Issue	Description	Reported In OHS Version
Oracle HTTP Server Instance fails To load mod_cgid	While launching Oracle HTTP Server instance, this message appears: <p>Couldn't set permissions on unix domain socket</p> <p>in Oracle HTTP Server Instance log while loading the cgid module (mod_cgid). This message indicates that the mod_cgid is not loaded because the cgisock log file path length exceeds the actual character array length of sun_path variable defined in /usr/include/sys/un.h.</p>	12.1.3.0.0
Bad CLASSPATH environment variable can break WLST	A bad CLASSPATH environment variable can block the WebLogic Scripting Tool (WLST) from starting. If a bad CLASSPATH is set in your environment variables and you attempt to start WLST, you might see a message like: <p>Problem invoking WLST -  java.lang.NoClassDefFoundError:  javax/enterprise/deploy/spi/exceptions/  DeploymentManagerCreationException</p>	12.1.3.0.0
Oracle HTTP Server Configuration Assistant Launcher Fails on Solaris 5.10	While creating an Oracle HTTP Server domain, ORACLE_HOME/ohs/common/bin/config.sh launcher fails and throws an error.	12.1.3.0.0
Disable SSL security protocols	In several places, the Administering Oracle HTTP Server12c documentation discusses the SSL version 3 (SSLv3) security protocol. Because of security concerns, Oracle strongly recommends that you disable the SSLv3 security protocol from Oracle HTTP Server.	12.1.3.0.0
Installing Oracle HTTP Server on Oracle Linux 7 environments	Oracle HTTP Server 12c (12.1.3) can be installed into Oracle Linux 7 (OEL7) environments only if you run the Oracle Universal Installer (OUI) from the command line with the -ignoreSysPrereqs option, for example: <pre>./runInstaller -ignoreSysPrereqs...</pre>	12.1.3.0.0
Creating Instance Named adminserver Throws Exception	If you try to create an instance with the name <i>adminserver</i> , Oracle HTTP Server throws an exception post after which you will not be able to create instances, even if they have valid names. Therefore, do not attempt to create instances that use the same name as a given administration server.	12.1.2.0.0
SSLWallet Directive in ssl.conf Might be Saved Incorrectly	When updating the SSL wallet in Fusion Middleware Control, the SSLWallet directive in <code>ssl.conf</code> might be saved incorrectly.	12.1.2.0.0

Issue	Description	Reported In OHS Version
Create Log Directory Manually When Diagnosing Startup Failures	If an Oracle HTTP Server instance does not start and has not been started before, manually create the directory <i>DOMAIN_HOME/servers/&lt;instancename&gt;/logs</i> if it does not exist, then attempt to start the instance again so that all diagnostic information can be written. The log file <i>lastinvocation.log</i> , used for diagnosing some types of startup failures, will not be written if this log directory does not exist.	12.1.2.0.0
The order of attributes in the SSL certificate DN has been corrected.	<p>In 12.1.x releases of Oracle HTTP Server, when the SSL certificate DN was queried using the CGI interface, the order of attributes of the DN was reversed from:</p> <p>Country, location, Organisation, Organisational Unit, Common Name, Email</p> <p>to:</p> <p>Email, Common Name, Organisational Unit, Organisation, Location, Country</p> <p>This has been corrected in the 12.2.1 release.</p>	12.1.2.0.0
Using shutdown() without parameters shuts down WebLogic Server	This is "as designed". As per the WLST documentation, this <i>argument(name)</i> defaults to the server to which WLST is currently connected	12.1.2.0.0
Multiple WLST versions	Use the <i>wlst.sh</i> from <i>\$ORACLE_HOME/oracle_common/common/bin</i> instead of <i>ORACLE_HOME/ohs/common/bin</i> .	12.1.2.0.0
nmStart(), nmServerStatus(), and nmKill() require ServerType parameter	This is "as designed". Please refer to the WLST documentation which clearly says the <i>ServerType</i> defaults to the server to which WLST is currently connected	12.1.2.0.0
Warning appears if no Oracle HTTP Server instance is created	This issue has been resolved.	12.1.2.0.0
Creating an instance named "adminserver" throws an exception	Do not attempt to create instances that use the same name as a given administration server.	12.1.2.0.0
SSLWallet directive in ssl.conf might be saved Incorrectly	This issue has been resolved.	12.1.2.0.0

---

<b>Issue</b>	<b>Description</b>	<b>Reported In OHS Version</b>
CONFIG_FILE_PATH setting for apxs in a standalone domain	If CONFIG_FILE_PATH is not set before invoking apxs, the error message might provide incorrect information for setting CONFIG_PATH. For the proper setting of CONFIG_FILE_PATH, see Using the apxs Command to Install Extension Modules in <i>Administering Oracle HTTP Server</i>	12.1.2.0.0
Backslashes in paths in ohs.plugins.nodemanager.properties must be escaped	Escape characters are no longer required.	12.1.2.0.0

---

