

Oracle® Enterprise Manager

Cloud Control Release Notes

12c Release 2 (12.1.0.2) for Oracle Solaris on x86-64 (64-bit)

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Oracle Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2) is a management solution providing centralized monitoring, administration, and lifecycle management functionality for the complete IT infrastructure.

This Release Notes document provides information about the release, as well as information to assist you in either installing or upgrading to Cloud Control and/or Management Agent 12.1.0.2.

This document contains the following sections:

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1 Where To Find Installation And Upgrade Documentation

The following documents are related to installing and/or upgrading to Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2).

All of these documents can be downloaded from the Enterprise Manager Cloud Control Documentation Library at the following URL:

<http://www.oracle.com/pls/em121/homepage>

- *Oracle Enterprise Manager Cloud Control Release Notes, 12c Release 2 (12.1.0.2)* (this document)

The Release Notes document provides instructions on installing, upgrading or de-installing of the software. It also includes a list of known issues related to installation and upgrade, as well as post-installation configuration

- *Oracle Enterprise Manager Cloud Control Basic Installation Guide, 12c Release 2 (12.1.0.2)*

The document provides references detailed instructions on performing a fresh installation of Enterprise Manager Cloud Control and Management Agents, as well as on upgrading to this latest release.

- *Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide, 12c Release 2 (12.1.0.2)*

The document provides detailed instructions on advanced installation scenarios, including silent installation and de-installation of Cloud Control components. It also provides guidelines on post-installation configuration tasks, including high availability configuration.

- *Oracle Enterprise Manager Cloud Control Upgrade Guide, 12c Release 2 (12.1.0.2)*

The document provides detailed instructions on upgrading an existing Enterprise Manager installation to the latest release.

The documents noted above are referenced several times in this Release Notes document. The documents can also be downloaded from the Enterprise Manager Cloud Control Documentation Library at the following URL:

<http://www.oracle.com/pls/em121/homepage>

2 New Features Included In This Release

Oracle Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2) contains a significant number of new features and enhancements. See "New Features In Enterprise Manager 12c" in the *Enterprise Manager Cloud Control 12c Introduction* book for a detailed overview of what's new in this latest release.

This document can be downloaded from the Enterprise Manager Cloud Control Documentation Library at the following URL:

http://docs.oracle.com/cd/E24628_01/doc.121/e25353/toc.htm

3 Acquiring The Software

You can get the installation software from the product DVD or from Oracle Technology Network (OTN) at:

<http://www.oracle.com/technetwork/oem/enterprise-manager/downloads/index.html>

For more details on how you can obtain the Enterprise Manager Cloud Control software, refer to the "Procuring Enterprise Manager Cloud Control Software" section of the *Enterprise Manager Cloud Control Advanced Installation and Configuration Guide* at the following URL:

http://docs.oracle.com/cd/E24628_01/install.121/e24089/getstrtd_proc_sw.htm

Note: Verify that the file size of your downloaded installation software matches the file size displayed on Oracle Technology Network (OTN). After downloading the software, run the *cksum* command against the downloaded file to ensure that the file size of the downloaded software is the same as the file size on OTN.

4 Prerequisites

The following are required to install Oracle Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2):

- Oracle WebLogic Server 11g Release 1 (10.3.5)

Note that this version of Oracle WebLogic Server is installed by default as part of the Enterprise Manager Cloud Control 12c installation process.

- A certified Oracle Database on which the Oracle Management Repository can be configured.

Supported database versions are listed in the Enterprise Manager Certification Matrix available on My Oracle Support. To access this matrix, follow these steps:

1. Log in to My Oracle Support, which is accessible at the following URL:
<https://support.oracle.com>
2. Click the **Certifications** tab.
3. In the Certification Search region, select **Enterprise Manager Cloud Control** from the Product list.
4. From the Release list, select **12.1.0.2.0**, then click **Search**.
5. Expand the **Databases** node.

5 Installing Oracle Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2)

These instructions assume that you will install a complete Enterprise Manager Cloud Control system using an existing certified Oracle Database on which the Oracle Management Repository can be configured.

See the "Installing Enterprise Manager System" chapter in the *Enterprise Manager Cloud Control Basic Installation Guide* for installation and post-install configuration instructions:

http://docs.oracle.com/cd/E24628_01/install.121/e22624/install_em_exist_db.htm

5.1 Installing An Additional Oracle Management Service

You can install additional Oracle Management Service (OMS) instances into your existing Enterprise Manager Cloud Control environment.

Note that multiple OMS 12.1.0.2 instances cannot be installed on the same WebLogic Server host machine. Instead, each additional OMS instance must be installed on a different host. Ensure that the WebLogic Server location is the same on all OMS hosts.

See the "Adding An Additional Oracle Management Service" chapter in the *Enterprise Manager Cloud Control Basic Installation Guide* for prerequisites and instructions on installing additional OMS instances at the following URL:

http://docs.oracle.com/cd/E24628_01/install.121/e22624/install_addln_oms.htm

5.2 Installing Additional Management Agents

You can install additional Management Agents into your environment. Several Management Agent deployment options are supported in this release.

For instructions on using the recommended Add Host Targets wizard method (also referred to as Agent push in previous EM releases), refer to "Installing Oracle Management Agent Using Agent Deployment Wizard" in the *Enterprise Manager Cloud Control Basic Installation Guide*.

http://docs.oracle.com/cd/E24628_01/install.121/e22624/install_agent.htm

5.3 Known Installation Issues

This section covers issues related to installation of Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2).

5.3.1 Verify Time Zone Is Correct Before Installing On Solaris x64 And Solaris SPARC Hosts Configured To Use Japanese Timezone

The Checking for Timezone prerequisite check generates a warning when installing Oracle Management Service or a Management Agent on a Solaris x64 or Solaris SPARC host.

To work around this issue, follow the steps below.

1. Ignore the timezone warning and continue with the Management Agent installation.
2. Stop the Management Agent with the following command:

```
<AGENT_HOME>/bin/emctl stop agent
```
3. On the Management Agent host, set the Timezone (TZ) environment variable. For example:

```
export TZ=Asia/Tokyo
```
4. Reset the timezone on the Management Agent with the following command:

```
<AGENT_HOME>/bin/emctl resetTZ agent
```
5. Start the Management Agent with the following command:

```
<AGENT_HOME>/bin/emctl start agent
```

(Bug 14051789)

5.3.2 Configure Host To Use Japanese UTF-8 Encoding Before Running Installer If Using Japanese Locale

On Solaris x64 hosts, extra characters are displayed on the console when invoking runInstaller when the Solaris x64 host is configured to use the Japanese EUC (ja_JP.eucJP) or SJIS (ja_JP.PCK) locales.

To work around this issue, configure the Solaris x64 host to use the Japanese locale with the UTF-8 (ja_JP.UTF8) encoding.

(Bug 14146260)

5.3.3 Set Locale To Japanese UTF-8 Or EUC Encoding On Target Host Before Installing Management Agent

Deployment of a Management Agent to a Solaris 11 target host that is configured to use the SJIS (ja_JP.PCK) locale fails during the Remote Prerequisite Check step. The error message will read "Segmentation Fault".

To resolve this issue, set the system level locale to Japanese using the UTF-8 (LANG=ja_JP.UTF8) or EUC (LANG=ja_JP.eucJP) encodings.

(Bug 14188642)

5.3.4 Management Agent Install On Solaris Exadata Clusters Fails Or Remains In "In Progress" State Indefinitely

When attempting to install a Management Agent using the Add Host Wizard on a Solaris Exadata Cluster, the installation process either fails or remains in the "In Progress" state indefinitely.

The reason is that the installation fails to detect a free port for use by the Management Agent. This situation occurs when:

- The target host already has a Management Agent using port 3872;
- The host is configured to listen on an Internet Protocol version 6 (IPv6) address; and
- Secure Shell (SSH) is configured to use to listen on an Internet Protocol version 4 (IPv4) address

To avoid this issue, explicitly specify a free Management Agent port in the installation interview screens in the Add Host Wizard, rather than allowing the application to search for a free port.

(Bug 14359662)

6 Upgrading To Oracle Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2)

You can upgrade your existing Enterprise Manager 10g Grid Control Release 5 (10.2.0.5.0), Enterprise Manager 11g Grid Control Release 1 (11.1.0.1.0) or Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) (with or without Bundle Patch1) to Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2).

If you have Enterprise Manager 10g Grid Control Release 4 (10.2.0.4.0) or lower installed, then you must first upgrade to Enterprise Manager 10g Grid Control Release 5 (10.2.0.5.0) or Enterprise Manager 11g Grid Control Release 1 (11.1.0.1.0) before you can upgrade to the new release. After upgrading or patching your current installation to the supported releases, upgrade to Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2).

Before beginning, Oracle recommends that you back up the Oracle Home that will be upgraded, as well as the Oracle Inventory directory and the Software Library. You should also back up the Management Repository database, as upgrade changes made to the Repository cannot be rolled back. For details, see the "Backing Up Enterprise Manager" chapter in the *Enterprise Manager Cloud Control Administrator's Guide*:

http://docs.oracle.com/cd/E24628_01/doc.121/e24473/ha_backup_recover.htm

See the *Enterprise Manager Cloud Control Upgrade Guide* for upgrade prerequisites and instructions. This document is available from the Enterprise Manager Cloud Control Documentation Library at the following URL:

http://docs.oracle.com/cd/E24628_01/upgrade.121/e22625/toc.htm

Note:

The upgrade process will upgrade only the Management Repository (sysman) schema and will create the new Metadata Services (sysman_mds) schema within the database. It will not impact any other data within the database. Even so, a database backup is strongly recommended.

6.1 Known Upgrade Issues

This section covers issues related to upgrading to Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2).

6.1.1 Management Agent Upgrade Fails With Error Indicating Oracle Exadata Plug-in Not Supported

Upgrading a Management Agent from Enterprise Manager Cloud Control Release 1 (12.1.0.1) with Bundle Patch 1 applied fails with the following error, which indicates that the Oracle Exadata plug-in is not supported by the Management Agent:

Plug-in Oracle Exadata is not supported on this Management Agent. Please undeploy this plug-in to proceed further.

The error occurs even though the Oracle Exadata plug-in was not previously deployed to the Management Agent. It error occurs on AIX, Linux 32 and Windows x64 Management Agent hosts.

To resolve this issue, you must go through the process of undeploying the Oracle Exadata plug-in - even though it was not previously deployed - before attempting to upgrade the Management Agent.

1. From the **Setup** menu, select **Extensibility**, then select **Plug-ins**.
2. Select the Oracle Exadata plug-in row in the table.

Note that even though the count in the Management Agent column for the plug-in reads "0", the plug-in can be undeployed.

3. Select **Undeploy From > Management Agent**.
4. Once the plug-in has been undeployed, perform the Management Agent upgrade.

(Bug 14403965)

6.1.2 2-System Upgrades On Same Host Not Supported

The 2-system upgrade option is not supported on a host with an existing Oracle Management Service instance. The reason is that such an upgrade would result in two Management Agents on the host:

- The "old" Management Agent installed with the previous Grid Control release
- The "new" Management Agent installed as part of the upgrade

This scenario could result in unexpected behaviors in different Enterprise Manager features, and is therefore not supported.

(Bug 12957922)

6.1.3 Metric Errors Occur in the Pre-Upgrade Console For SOA Using Remote Management Agent

During upgrade of a Management Agent that monitors Service-Oriented Architecture (SOA) targets, the pre-upgrade console may display errors for some metrics.

To resolve this issue:

1. Copy the SOA archives (JAR files) as part of the Management Agent upgrade, then restart the Management Agent. For example:

```
cp /net/adc2110399/scratch/ vaudinar /ps2soajars/*.jar  
PLUGIN_ROOT/archives/jlib/extjlib/
```

Note: If necessary, create the `extjlib` directory under the `jlib` directory.

2. Restart the Management Agent.

(Bug 12925693)

6.1.4 Power Broker Option Not Working In Upgrade Console

If a logging message is enabled in the the Power Broker configuration file (`pb.conf`), then the jobs submitted from the pre-upgrade console using the Power Broker option will fail.

To work around this issue, disable all of the logging information before submitting jobs from the pre-upgrade console using Power Broker.

(Bug 11057502)

7 Critical Patches to Apply

The following section notes critical patches that must be applied to use specific product features after installing or upgrading to the latest release.

7.1 Patch Required If Using Database As A Service Feature

Before using the new Database as a Service (DBaaS) feature, you must download and apply the mandatory patch for bug number 13031985. This patch contains important bug fixes related to the user experience when using the Self Service Application for provisioning databases.

The patch can be downloaded from the Patches & Updates page on My Oracle Support, which is available at the following URL:

<https://support.oracle.com>

8 De-installing Oracle Enterprise Manager Cloud Control

You can de-install existing Enterprise Manager Cloud Control components in either graphical or silent mode.

See "Deinstalling Enterprise Manager Cloud Control" in the *Enterprise Manager Cloud Control Advanced Installation and Configuration Guide* for de-installation instructions:

http://docs.oracle.com/cd/E24628_01/install.121/e24089/deinstall_em.htm

9 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 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.

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