

Oracle® Enterprise Manager

Cloud Control Release Notes

13c Release 1 for Linux x86 and Linux x86-64

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Oracle Enterprise Manager Cloud Control 13c Release 1 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 13c Release 1.

This document contains the following sections:

1 Where To Find Installation And Upgrade Documentation

The following documents are related to installing and/or upgrading to Enterprise Manager Cloud Control 13c Release 1.

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

<http://docs.oracle.com/en/enterprise-manager/>

- *Oracle Enterprise Manager Cloud Control Release Notes, 13c Release 1 (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, 13c Release 1*
The document provides references detailed instructions on performing a fresh installation of Enterprise Manager Cloud Control and Management Agents.
- *Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide, 13c Release 1*
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, 13c Release 1*
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://docs.oracle.com/en/enterprise-manager/>

2 New Features Included In This Release

Oracle Enterprise Manager Cloud Control 13c Release 1 contains a significant number of new features and enhancements. See "New Features In Enterprise Manager 13c" in the Enterprise Manager Cloud Control 13c Introduction book for a detailed overview of what's new in this latest release.

This document is available at the following URL:

<http://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMCON132>

Note that the following plug-ins are deployed by default with Oracle Enterprise Manager Cloud Control:

- Enterprise Manager for Oracle Cloud Framework (13.1.1.0)
- Enterprise Manager for Oracle Database (13.1.1.0)
- Enterprise Manager for Oracle Exadata (13.1.1.0)
- Enterprise Manager for Oracle Fusion Middleware (13.1.1.0)
- Enterprise Manager for Systems Infrastructure (13.1.1.0)

The following plug-ins are also available to be downloaded and deployed to Oracle Enterprise Manager Cloud Control:

- Enterprise Manager for Cloud (13.1.1.0)
- Enterprise Manager for Oracle Consolidation Planning and Chargeback (13.1.1.0)
- Enterprise Manager for Oracle Fusion Applications (13.1.1.0)
- Enterprise Manager for Oracle ORAchk Health Checks (13.1.1.0)
- Enterprise Manager for Oracle Siebel (13.1.1.0)
- Enterprise Manager for Oracle Virtual Infrastructure (13.1.1.0)
- Enterprise Manager for Oracle Virtualization (13.1.1.0)
- Enterprise Manager for Storage Management (13.1.1.0)
- Enterprise Manager for Zero Data Loss Recovery Appliance (13.1.1.0)

You can deploy the latest plug-ins as part of the process of installing or upgrading to Enterprise Manager Cloud Control 13c Release 1.

To deploy plug-ins during installation, follow the process outlined in the "Installing with Advanced Configuration" chapter in the *Enterprise Manager Cloud Control Basic Installation Guide*:

<http://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMBSC159>

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://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMADV271>

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 Installing Oracle Enterprise Manager Cloud Control 13c Release 1

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 13c* for installation and post-install configuration instructions:

<http://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMBSC159>

4.1 Installing An Additional Oracle Management Service

To configure Cloud Control for high-availability, you can install additional Oracle Management Service (OMS) instances into your existing Enterprise Manager Cloud Control environment.

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://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMBSC171>

4.2 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 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://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMBSC181>

4.3 Known Installation Issues

This section covers issues related to installing Enterprise Manager Cloud Control 13c Release 1.

4.3.1 Offline Installation Updates Not Supported on Linux x86-64

Offline installation updates are not supported on Linux x86-64. Due to this issue, any offline patches available on My Oracle Support cannot be applied during installation time.

There is no workaround for this issue.

(Bug 22061414)

4.3.2 OMS Installation Updates Not Supported on Linux x86-64

OMS installation updates are not supported on the Linux x86-64 platform. Due to this issue, any OMS patches available on My Oracle Support cannot be applied during installation time.

There is no workaround for this issue.

(Bug 22011111)

4.3.3 Configuring Kernel Parameters for Linux

Unless otherwise specified, the kernel parameter and shell limit values shown in the following table are minimum values only. For production Enterprise Manager systems, Oracle recommends that you tune these values to optimize the performance of the system. See the operating system documentation for more information about tuning kernel parameters.

Minimum Parameter Settings for Installation

Review the following table to set the values manually:

Parameter	Value	File
ip_local_port_range	Minimum: 11000 Maximum: 65000 See Setting UDP and TCP Kernel Parameters Manually	/proc/sys/net/ipv4 /ip_local_port_range

Displaying and Changing Kernel Parameter Values

Enter the commands shown in the following table to display the current values of the kernel parameters. Note these values and identify any values that you must change:

Parameter	Command
ip_local_port_range	# /sbin/sysctl -a grep ip_local_port_range This command displays a range of port numbers.

This command displays a range of port numbers.

If the value of any kernel parameter is different from the minimum value, then perform the following steps:

1. Using any text editor, create or edit the /etc/sysctl.conf file, and add or edit lines similar to the following.

For example:

```
net.ipv4.ip_local_port_range = 11000 65000
```

By specifying the values in the `/etc/sysctl.conf` file, they persist when you restart the system. On SUSE Linux Enterprise Server systems, enter the following command to ensure that the system reads the `/etc/sysctl.conf` file when it restarts:

```
# /sbin/chkconfig boot.sysctl on
```

2. Enter the following command to change the current values of the kernel parameters:

```
# /sbin/sysctl -p
```

Review the output from this command to verify that the values are correct. If the values are incorrect, edit the `/etc/sysctl.conf` file, then enter this command again.

3. Enter the command `/sbin/sysctl -a` to confirm that the values are set correctly.
4. After updating the values of the kernel parameters in the `/etc/sysctl.conf` file, either restart the computer, or run the command `sysctl -p` to make the changes in the `/etc/sysctl.conf` file available in the active kernel memory.

4.3.4 Creating the SYSMAN User Account Password

The SYSMAN account password must begin with a letter, and can only contain uppercase or lowercase letters, numbers and the following characters: `$, #, _`

Examples of valid passwords:

```
Welcome1, oracle_User
```

Examples of invalid passwords:

```
Welcome!, 123oracle, #Oracle
```

(Bug 22879000)

5 Upgrading To Oracle Enterprise Manager Cloud Control 13c Release 1

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), Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2), Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3), Enterprise Manager Cloud Control 12c Release 4 (12.1.0.4), or Enterprise Manager Cloud Control 12c Release 5 (12.1.0.5) to Enterprise Manager Cloud Control 13c Release 1.

Note: Upgrading an Enterprise Manager Cloud Control 12c Release 5 (12.1.0.5) site that has the Enterprise Manager for Oracle Virtual Infrastructure (12.1.0.3) plug-in installed is not supported.

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.

Before beginning, Oracle recommends that you back up the Oracle Management Service (OMS) Oracle Home, the Management Agent Oracle Home, 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 Advanced Installation and Configuration Guide*:

<http://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMADV10740>

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://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMUPG107>

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.

5.1 Known Upgrade Issues

This section covers issues related to upgrading to Enterprise Manager Cloud Control 13c Release 1.

5.1.1 Oracle Home Data Not Collected Correctly After Management Agent Update

Oracle Home data may not be collected correctly for Management Agents that were deployed as Gold Images, but no longer match the Gold Image configuration after plug-ins or patches were applied.

You can address this issue by either running the Oracle Home collections manually or waiting for the Oracle Home collections to be run automatically.

(Bug 21757085)

5.1.2 Transparent Data Encryption Page Unavailable After Upgrade From Previous Versions of Enterprise Manager

After an Enterprise Manager upgrade from either Enterprise Manager Cloud Control Release 3 (12.1.0.3) or Enterprise Manager Cloud Control Release 4 (12.1.0.4) to Enterprise Manager Release 13 Version 1, you may not be able to view or access the Transparent Data Encryption (TDE) functionality under the Security menu in the context of a target database (specifically version 11.1.0.7).

To work around this issue, you can reach the Transparent Data Encryption Home page using the following navigation:

1. From the Oracle Database page, navigate to the Security Home page by choosing **Security** from the Oracle Database Home page.
2. From the Security menu, choose **Home**.

3. On the Security Home page, scroll down to the **Encryption, Redaction and Masking** section.

In this section you will find high level information related to Transparent Data Encryption (if the keystore was previously configured).

4. If the keystore is not configured, click on the home icon in the **Oracle Advanced Security** section to navigate to the TDE Home page.

Enterprise Manager displays the TDE Home page.

This issue occurs primarily with target Database version 11.1.0.7.

(Bug 22231728)

5.1.3 Targets Broken After Agents Are Upgraded in Enterprise Manager Release 13c

After an Enterprise Manager Release 13c upgrade, some targets are broken with a broken code 512 after Management Agents are upgraded. As a result, broken targets cannot be monitored.

To work around this issue, bounce (shutdown and startup) the instance that hosts the Enterprise Manager repository.

(Bug 21496075)

5.1.4 Creating the SYSMAN User Account Password

The SYSMAN account password must begin with a letter, and can only contain uppercase or lowercase letters, numbers and the following characters: \$, #, _

Examples of valid passwords:

Welcome1, oracle_User

Examples of invalid passwords:

Welcome!, 123oracle, #Oracle

(Bug 22879000)

6 De-installing Oracle Enterprise Manager Cloud Control

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

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

<http://www.oracle.com/pls/topic/lookup?ctx=em131&id=EMADV226>

7 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.

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