

Oracle® Database Appliance

Licensing Information User Manual

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Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs.

If you have a question about your licensing needs, then contact your Oracle sales representative or the License Management Services representative. You can also refer to the resources listed in for more information.

[Audience](#)

[Documentation Accessibility](#)

[Related Documents](#)

[Conventions](#)

<http://www.oracle.com/us/corporate/license-management-services/index.html>

Audience

This book is intended for all purchasers of Oracle Database Appliance.

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

The following documents, along with this document, are published in the Oracle Database Appliance online documentation library, which is available from the following URL:

<http://www.oracle.com/goto/oda/docs>:

- *Oracle Database Appliance Getting Started Guide* for information about deploying Oracle Database Appliance.
- *Oracle Database Appliance X6-2S and X6-2M Deployment and User's Guide* for information about deploying and managing Oracle Database Appliance X6-2 and X6-2S.
- *Oracle Database Appliance Administration and Reference Guide* for information about managing Oracle Database Appliance.
- The Software Investment Guide, which is available at the following URL:
<http://www.oracle.com/us/corporate/%20pricing/sig-070616.pdf>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	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 Database Appliance Licensing Overview

This chapter provides an overview of the licensing process for each hardware platform.

Topics:

[About Licensing](#)

Oracle Database Appliance provides capacity-on-demand licensing.

[CPUs and Core Count](#)

Review this section for information about core license options for your Oracle Database Appliance hardware.

About Licensing

Oracle Database Appliance provides capacity-on-demand licensing.

Capacity-on-demand (CoD) refers to an Oracle Database Appliance server that has a subset of its cores turned off so that the Oracle Database Enterprise Edition software license cost can be reduced. The reduction of cores can be turned off before or after the deployment. The number of active cores can be increased at a later time, when more capacity is needed. Oracle Database is licensed separately. Refer to Oracle Database Licensing Information for additional information.

When you add your hardware Support Identifier (SI) for Oracle Database Appliance to your My Oracle Support account, you establish a license for all the cores on your system. Oracle Database Appliance Models X5-2, X4-2, X3-2, and V1 can be deployed with bare metal or virtualization. Both platforms types offer capacity-on-demand licensing. With bare-metal installations, you disable cores that you do not intend Oracle Database to use. To do this, add your hardware Support Identifier (SI) for Oracle Database Appliance to your My Oracle Support account and create a key. If you deploy Oracle Database Appliance Virtualized Platform, then all the cores are enabled. However, capacity-on-demand licensing is established by assigning specific cores to the virtual machine where you run Oracle Database and related software (ODA_BASE).

- Chapter two explains how to obtain a licensing key and record your initial license requirements with My Oracle Support. It also explains how to change the licensed core count, if necessary, later.

Chapter two is only appropriate for bare metal installations where your license covers the cores that you are using for Oracle Database

- Chapter three contains information about the third-party products that are included with Oracle Database Appliance.

“Task 3: Install the ODA_BASE Template” Chapter 4 of *Oracle Database Appliance Getting Started Guide* for an example of setting the initial licensed core count on Oracle Database Appliance Virtualized Platform.

Oracle Database Appliance Licensing Overview

This chapter provides an overview of the licensing process for each hardware platform.

CPUs and Core Count

Review this section for information about core license options for your Oracle Database Appliance hardware.

Oracle Database Appliance X6-2S contains 1 CPU with 10 cores. When you deploy Oracle Database Appliance X6-2S, all 10 cores are active with hyper-threading enabled by default.

Oracle Database Appliance X6-2M contains 2 CPU with 10 cores. When you deploy Oracle Database Appliance X6-2M, all 20 cores are active with hyper-threading enabled by default.

Oracle Database Appliance X5-2 nodes each contain 2 CPUs and each CPU has 18 cores. When you deploy Oracle Database Appliance X5-2, all 72 cores (36 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance X4-2 nodes each contain 2 CPUs and each CPU has 12 cores. When you deploy Oracle Database Appliance X4-2, all 48 cores (24 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance X3-2 nodes each contain two CPUs and each CPU has eight cores. When you deploy Oracle Database Appliance X3-2, all 32 cores (16 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance V1 nodes each contain two CPUs, and each CPU has six cores. When you deploy Oracle Database Appliance, all 24 cores (12 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance bare metal licensing is determined by the number of enabled cores that you have on your system. The capacity-on-demand licensing feature enables you to change the enabled core count as your system resource needs change.

Initially set the number of licensed cores to the level currently required by your applications. Each server node has the same number of active cores. Later, increase the licensed core count as your applications require more capacity. Change the number of licensed cores by obtaining and applying a core key to configure your appliance, using the tables for your Oracle Database Appliance platform.

Oracle Database Appliance X5-2 Licensed Core Licensing Options

Table 1-1 Table 1-1 Bare Metal License Options for Oracle Database Appliance X5-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4

Table 1-1 (Cont.) Table 1-1 Bare Metal License Options for Oracle Database Appliance X5-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
6	12	6
8	16	8
10	20	10
12	24	12
14	28	14
16	32	16
18	36	18
20	40	20
22	44	22
24	48	24
26	52	26
28	56	28
30	60	30
32	64	32
34	68	34
36	72	36

Oracle Database Appliance X4-2 Licensed Core Licensing Options**Table 1-2 Bare Metal License Options for Oracle Database Appliance X4-2**

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4
6	12	6
8	16	8
10	20	10

Table 1-2 (Cont.) Bare Metal License Options for Oracle Database Appliance X4-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
12	24	12
14	28	14
16	32	16
18	36	18
20	40	20
22	44	22
24	48	24

Oracle Database Appliance X3-2 Licensed Core Licensing Options

The information presented in the following table applies when you are running Oracle Appliance Manager release 2.10 or later. Otherwise, you can only allocate each server with a granularity of 4 cores.

Table 1-3 Bare Metal License Options for Oracle Database Appliance X3-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4
6	12	6
8	16	8
10	20	10
12	24	12
14	28	14
16	32	16

Oracle Database Appliance V1 Licensed Core Licensing Options

Table 1-4 Bare Metal License Options for Oracle Database Appliance

Table 1-4 Bare Metal License Options for Oracle Database Appliance V1

Table 1-4 (Cont.) Bare Metal License Options for Oracle Database Appliance V1

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4
6	12	6
8	16	8
10	20	10
12	24	12

Note:

Find details about managing capacity-on-demand licensing for Oracle Database Appliance Virtualized Platform in the "Resizing ODA_BASE" section of Chapter 3 in *Oracle Database Appliance Administration and Reference Guide*.

[Oracle Database Appliance Licensing Overview](#)

This chapter provides an overview of the licensing process for each hardware platform.

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Topics:

[Capacity-On-Demand Licensing for Oracle Database Appliance X6-2S](#)

This section explains capacity-on-demand licensing for Oracle Database Appliance X6-2S.

[Capacity-On-Demand Licensing for Oracle Database Appliance X6-2M](#)

This section explains capacity-on-demand licensing for Oracle Database Appliance X6-2M.

[Setting the CPU Core Count on Oracle Database Appliance X6-2S and X6-2M](#)

Use the `configure-core-count` command to change the core count on the Oracle Database Appliance X6-2S or X6-2M.

[Capacity-On-Demand Licensing for Oracle Database Appliance X5-2](#)

This section explains capacity-on-demand licensing for Oracle Database Appliance X5-2.

[Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments](#)

This section describes how to set the CPU core count on Oracle Database Appliance X5-2 bare metal deployments.

[Capacity-On-Demand Licensing for Oracle Database Appliance X4-2](#)

This section describes capacity-on-demand licensing for Oracle Database Appliance X4-2.

[Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments](#)

This section describes how to set the CPU core count on Oracle Database Appliance X4-2 bare metal deployments.

[Capacity-On-Demand Licensing for Oracle Database Appliance X3-2](#)

This section describes capacity-on-demand licensing for Oracle Database Appliance X3-2.

[Setting the CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments](#)

This section describes how to set the CPU core count on Oracle Database Appliance X3-2 bare metal deployments.

[Capacity-On-Demand Licensing for Oracle Database Appliance V1](#)

This topic describes capacity-on-demand licensing for Oracle Database Appliance V1

[Setting the CPU Core Count on Oracle Database Appliance V1 Bare Metal Deployments](#)

This topic describes how to set the CPU core count on Oracle Database Appliance V1 Bare Metal Deployments.

Capacity-On-Demand Licensing for Oracle Database Appliance X6-2S

This section explains capacity-on-demand licensing for Oracle Database Appliance X6-2S.

Oracle Database Appliance X6-2S is a single server consisting of 10 cores. By default, Oracle Database Appliance ships with all cores enabled. Capacity-on-demand is only applicable to Oracle Database Enterprise Edition software.

The number of active cores can be reduced before or after deployment. The number of active cores can be increased when additional capacity is needed. This is known as **capacity-on-demand**. Additional cores are increased in 2-core increments.

Note: The server must be restarted after enabling additional cores.

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X6-2S Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- You can change the CPU core count to a value that is a multiple of two between 2 and 10.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.
- You should only change the CPU core count if you need less than 10 cores.

Note: If you mistakenly followed the procedure to set your CPU core count to 10, thereby preventing you from subsequently increasing your CPU core count, then contact Oracle Support.

To change the CPU core count, see [Setting the CPU Core Count on Oracle Database Appliance X6-2S and X6-2M](#).

[Capacity-On-Demand Licensing Information](#)

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Capacity-On-Demand Licensing for Oracle Database Appliance X6-2M

This section explains capacity-on-demand licensing for Oracle Database Appliance X6-2M.

Oracle Database Appliance X6-2M is a single server consisting of 20 cores. By default, Oracle Database Appliance ships with all cores enabled. Capacity-on-demand is only applicable to Oracle Database Enterprise Edition software.

The number of active cores can be reduced before or after deployment. The number of active cores can be increased when additional capacity is needed. This is known as **capacity-on-demand**. Additional cores are increased in 2-core increments.

Note: The server must be restarted after enabling additional cores.

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X6-2M Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- You can change the CPU core count to a value that is a multiple of two between 2 and 20.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.
- You should only change the CPU core count if you need less than 20 cores.

Note: If you mistakenly followed the procedure to set your CPU core count to 20, thereby preventing you from subsequently increasing your CPU core count, then contact Oracle Support.

To change the CPU core count, see [Setting the CPU Core Count on Oracle Database Appliance X6-2S and X6-2M](#).

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Setting the CPU Core Count on Oracle Database Appliance X6-2S and X6-2M

Use the `configure-core-count` command to change the core count on the Oracle Database Appliance X6-2S or X6-2M.

You must always assign cores in multiples of two, with a minimum of two cores. If you change the CPU core count, then you can subsequently only increase the CPU core count.

1. Log in as `root` to the Oracle Database Appliance servers.
2. Run the following to configure the number of CPU cores: `configure-core-count cpu_number`

For example, run the following command to set the number of cores to 8:

```
# configure-core-count 8
```

3. Restart the server to enable the additional cores.

After the system restarts, Oracle Database Appliance is reconfigured to run with the specified CPU core count.

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Capacity-On-Demand Licensing for Oracle Database Appliance X5-2

This section explains capacity-on-demand licensing for Oracle Database Appliance X5-2.

Oracle Database Appliance X5-2 consists of two servers. Each server has 36 CPU cores. By default, Oracle Database Appliance ships with all cores enabled on both servers:

- 36 CPU cores enabled on each of the two servers
- 72 enabled CPU cores

You can use the default CPU core count of 2 for each server, or you can change the CPU core count by following the procedure in "Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments". For example, if you change the CPU core count to 18 for each server, then:

- 18 CPU cores are enabled on each of the two servers
- You have a total of 36 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- You can change the CPU core count to a value that is a multiple of two between 2 and 36 for each server.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.

For example, if you change the CPU core count to 28, then you can subsequently change the CPU core count to 30, 32, 34, or 36. If you later change the CPU core count to 34, then you can subsequently change the CPU core count to 36.

- If your desired CPU core count is 36 for each server, then use the default configuration. There is no need to follow the procedure in "Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments" to set the CPU core count to 36.

Note: If you mistakenly followed the procedure to set your CPU core count to 36, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support.

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments

This section describes how to set the CPU core count on Oracle Database Appliance X5-2 bare metal deployments.

Complete the following procedure to set the CPU core count:

1. Log in to My Oracle Support:
<https://myoraclesupport.com>
2. Click the **Settings** tab, and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog, you can view the serial number of the appliance. If there is a previously generated key, then you can view the current configuration.

7. In the **Cores Per Server** menu, select the number of enabled CPU cores that you want to configure for each server. The value that you select applies to both servers on the appliance. . Initially, you can select 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, or 36. After your initial key generation, you can only select a number that is greater than the current number.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file, and save the file to a location on Oracle Database Appliance.
11. Log in as `root` to one of the Oracle Database Appliance servers.
12. Run the following command to restart the server to complete the reconfiguration, where *key_file_location* is the full path name of the text file that you created in Step 7:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key  
key_file_location
```

For example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured. Both servers run with the specified CPU core count. You must always assign cores on Oracle Database Appliance X5-2 bare-metal deployments in multiples of two, with a minimum of two cores.

[Capacity-On-Demand Licensing Information](#)

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Capacity-On-Demand Licensing for Oracle Database Appliance X4-2

This section describes capacity-on-demand licensing for Oracle Database Appliance X4-2.

Oracle Database Appliance X4-2 consists of two servers. Each server has 24 CPU cores. By default, Oracle Database Appliance is shipped with all cores enabled on both servers:

- 24 CPU cores enabled on each of the two servers
- 48 enabled CPU cores

You can use the default CPU core count of 24 for each server, or you can change the CPU core count by following the procedure in "Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments." For example, if you change the CPU core count to 16 for each server, then your server is configured as follows:

- 16 CPU cores enabled on each of the two servers
- 32 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count: .

- You can change the CPU core count to a value that is a multiple of two between 2 and 24 for each server.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.

For example, if you change the CPU core count to 16, then you can subsequently change the CPU core count to 18, 20, 22, or 24. If you later change the CPU core count to 22, then you can subsequently change the CPU core count to 24.

- If your desired CPU core count is 24 for each server, then use the default configuration. Do not follow the procedure in "Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments" to set the CPU core count to 24. Using the default configuration enables you to change the CPU core count to a number that is less than 16.

Note: If you mistakenly followed the procedure to set your CPU core count to 24, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support.

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments

This section describes how to set the CPU core count on Oracle Database Appliance X4-2 bare metal deployments.

Complete the following procedure to set the CPU core count:

1. Log in to My Oracle Support:
<https://myoraclesupport.com>
2. Click the **Settings** tab, and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog, you can view the serial number of the appliance. If there is a previously generated key, then you can view the current configuration.
7. In the **Cores Per Server** list, select the number of enabled CPU cores that you want to configure for each server. The value you select applies to both servers on the appliance. Initially, you can select 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, or 24. After

your initial key generation, you can only select a number that is greater than the current number.

8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file, and save the file to a location on the Oracle Database Appliance.
11. Log in as `root` to one of the servers on Oracle Database Appliance.
12. Run the following command to restart the server to complete the reconfiguration, where `key_file_location` is the full path name of the text file that you created in Step 7.:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key  
key_file_location
```

For Example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured. Both servers run with the specified CPU core count. You must always assign cores on Oracle Database Appliance X4-2 bare metal deployments in multiples of two, with a minimum of two cores.

[Capacity-On-Demand Licensing Information](#)

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Capacity-On-Demand Licensing for Oracle Database Appliance X3-2

This section describes capacity-on-demand licensing for Oracle Database Appliance X3-2.

Oracle Database Appliance X3-2 consists of two servers. Each server has 16 CPU cores. By default, Oracle Database Appliance ships with all cores enabled on both servers:

- 16 CPU cores enabled on each of the two servers
- 32 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- If you are running Oracle Appliance Manager 2.8 or lower, then you can change the CPU core count to 4, 8, 12, or 16 for each server.
- You can change the CPU core count to 2, 4, 6, 8, 10, 12, 14, or 16 for each server if you are running Oracle Appliance Manager 2.10 or higher.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.

For example, if you change the CPU core count to 8, then you can subsequently change the CPU core count to 12 or 16. If you later change the CPU core count to 12, then you can subsequently change the CPU core count to 16.

- If your desired CPU core count is 16 for each server, then use the default configuration. Do not follow the procedure described in "Setting the CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments" to set the CPU core count to 16. Using the default configuration enables you to change the CPU core count at a later time to a number less than 16.

Note: If you mistakenly followed the procedure to set your CPU core count to 16, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support to remedy the situation.

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Setting the CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments

This section describes how to set the CPU core count on Oracle Database Appliance X3-2 bare metal deployments.

Complete the following procedure to set the CPU core count:

1. Log in to My Oracle Support.

<https://myoraclesupport.com>

2. Click the **Settings** tab, and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog, you can view the serial number of the appliance. If there is a previously generated key, then you can view the current configuration.
7. In the **Cores Per Server** list, select the number of enabled CPU cores that you want to configure for each server. The value you select will apply to both servers on the appliance. Initially, you can select 4, 8, 12, or 16. Subsequently, you can only select a number that is greater than the current number.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file, and save the file to a location on Oracle Database Appliance.

11. Log in to one of the servers on Oracle Database Appliance as `root`.
12. Run the following command to restart the server to complete the reconfiguration, where `key_file_location` is the full path name of the text file that you created in Step 7:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key  
key_file_location
```

For example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured, and both servers to run with the specified CPU core count. Always assign cores to Oracle Database Appliance X3-2 bare metal deployments in multiples of four, with a minimum of four cores.

[Capacity-On-Demand Licensing Information](#)

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Capacity-On-Demand Licensing for Oracle Database Appliance V1

This topic describes capacity-on-demand licensing for Oracle Database Appliance V1

Oracle Database Appliance V1 consists of two servers and each server has 12 CPU cores. By default, Oracle Database Appliance ships with all cores enabled on both servers, that is:

- 12 CPU cores are enabled on each of the two servers
- You have a total of 24 enabled CPU cores

You can use the default CPU core count of 12 for each server, or you can change the CPU core count. To change the by following the procedure in "Setting the CPU Core Count on Oracle Database Appliance Bare Metal Deployments." For example, if you change the CPU core count to 8 for each server, then

- 8 CPU cores are enabled on each of the two servers
- You have a total of 16 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- You can change the CPU core count to 2, 4, 6, 8, 10, or 12 for each server.
- If you change the CPU core count, then you can subsequently only increase the CPU core count. Use the procedure for your Oracle Database hardware (X3-2, X4-2, or X5-2).

For example, if you change the CPU core count to 6, then you can subsequently change the CPU core count to 8, 10, or 12. If you later change the CPU core count to 8, then you can subsequently change the CPU core count to 10 or 12.

- If your desired CPU core count is 12 for each server, then use the default configuration. Do not follow the procedure in "Setting the CPU Core Count on Oracle Database Appliance Bare Metal Deployments" to set the CPU core count to 12. Using the default configuration enables you to later change the CPU core count to a number less than 12, if desired.

Note: If you mistakenly followed the procedure to set your CPU core count to 12, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support.

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Setting the CPU Core Count on Oracle Database Appliance V1 Bare Metal Deployments

This topic describes how to set the CPU core count on Oracle Database Appliance V1 Bare Metal Deployments.

Complete the following procedure to set the CPU core count:

1. Log in to My Oracle Support.

<https://myoraclesupport.com>

2. Click the **Settings** tab and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog, you can view the serial number of the appliance. If there is a previously generated key, then you can view the current configuration.
7. In the Cores Per Server list, select the number of enabled CPU cores that you want to configure for each server. The value that you select applies to both servers on the appliance. Initially, you can select 2, 4, 6, 8, 10, or 12. After your initial key generation, you can only select a number that is greater than the current number.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file, and save the file to a location on the Oracle Database Appliance.
11. Log in as `root` to one of the servers on Oracle Database Appliance.
12. Run the following command to restart the server to complete the reconfiguration, where *key_file_location* is the full path name of the text file that you created in Step 7:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key  
key_file_location
```

For example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured, and both servers run with the specified CPU core count. Always assign cores to Oracle Database Appliance bare-metal deployments in multiples of two, with a minimum of two cores.

[Capacity-On-Demand Licensing Information](#)

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Third-Party Product Licenses

This chapter contains the licenses for the third-party products that are included with Oracle Database Appliance.

Oracle Database Appliance includes the third-party products that are used in Oracle Database 11g release 2 (11.2 and 11.3), and Oracle Database 12c release 1 (12.1). To view the licenses for these third-party products, refer to *Oracle Database Licensing Information 11g Release 2 (11.2)*, and *Oracle Database Licensing Information 12c Release 1 (12.1)*.

Oracle Database Appliance includes the third-party products that are used in Oracle Integrated Lights Out Manager release 3.2. To view the licenses for these third-party products, refer to *Licensing Information User Manual Oracle ILOM*.

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