Oracle® Database Appliance
Release Notes

Release 19.5 for Linux x86-64

F24214-03

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ORACLE®

Oracle Database Appliance Release Notes, Release 19.5 for Linux x86-64

F24214-03

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Preface

Oracle Database Appliance is an optimized, prebuilt database system that is easy to deploy, operate, and manage. By integrating hardware and software, Oracle Database Appliance eliminates the complexities of nonintegrated, manually assembled solutions. Oracle Database Appliance reduces the installation and software deployment times from weeks or months to just a few hours while preventing configuration and setup errors that often result in suboptimal, hard-to-manage database environments.

- Audience
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Audience

This guide is intended for anyone who configures, maintains, or uses Oracle Database Appliance:

- System administrators
- Network administrators
- Database administrators
- Application administrators and users

This book does not include information about Oracle Database architecture, tools, management, or application development that is covered in the main body of Oracle Documentation, unless the information provided is specific to Oracle Database Appliance. Users of Oracle Database Appliance software are expected to have the same skills as users of any other Linux-based Oracle Database installations.

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 about Oracle Database Appliance, go to `http://www.oracle.com/goto/oda/docs` and click the appropriate release. The following documents are published in the Oracle Database Appliance online documentation library:

- *Oracle Database Appliance Release Notes*

- *Oracle Database Appliance Licensing Information User Manual*

- *Oracle Database Appliance Security Guide*

- *Oracle Database Appliance Accessibility Guide*

- *Oracle Database Appliance X8-2 Deployment and User's Guide*

- *Oracle Database Appliance X7-2 Deployment and User's Guide*

- *Oracle Database Appliance X6-2-HA Deployment and User's Guide*

- *Oracle Database Appliance X6-2S/M/L Deployment and User's Guide*

- *Oracle Database Appliance X5-2/X4-2 Deployment and User's Guide*

- Oracle Database Appliance Setup Posters and Booklets (a full-size printed copy ships with Oracle Database Appliance)

- *Oracle Database Appliance Owner's Guide*

- *Oracle Database Appliance Service Manual*

- *Oracle Database Appliance Series Safety and Compliance Guide*

For more information about using Oracle Database, go to `http://docs.oracle.com/en/database/` and select the database release from the menu. See the following documents in the Oracle Database online documentation library:

- *Oracle Database Security Guide*

- *Oracle Database Administrator's Guide*

- *Oracle Database SQL Language Quick Reference*

- *Oracle Database Backup and Recovery User's Guide*

- *Oracle Database Backup and Recovery Reference*

- *Oracle Database Utilities*

- *Oracle Automatic Storage Management Administrator's Guide*

For more information about Oracle Integrated Lights Out Manager 3.2, see https://docs.oracle.com/cd/E37444_01/.

For more details about other Oracle products that are mentioned in Oracle Database Appliance documentation, see the Oracle Documentation home page at `http://docs.oracle.com`.

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 the text.
italic	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.
# prompt	The pound (#) prompt indicates a command that is run as the root user.

1
What's New in This Release

Oracle Database Appliance release 19.5 supports Oracle Database 19*c* functionality on Oracle Database Appliance hardware models.

> **Note:**
>
> Oracle Database Appliance release 19.5 only supports Oracle Database 19c and requires re-imaging of your existing deployment. You cannot upgrade to Oracle Database Appliance release 19.5 from an earlier Oracle Database Appliance release. You also cannot upgrade to later Oracle Database Appliance releases from Oracle Database Appliance release 19.5.

New Features

This release of Oracle Database Appliance supports provisioning of Oracle Database 19c on Oracle Database Appliance X8-2, X7-2, X6-2, and X5-2 for bare metal systems. Read the chapter *Known Issues with Oracle Database Appliance in This Release* for critical fixes before deploying Oracle Database Appliance release 19.5.

For Oracle Database 19c features, see the Oracle Database Documentation Library at https://docs.oracle.com/en/database/oracle/oracle-database/index.html.

- **Oracle Grid Infrastructure and Oracle Database Updates**

  The following Oracle Grid Infrastructure and Oracle Database updates (October 2019 Oracle Database Release Update) for bare metal systems are available in this release:

  - 19.5.0.0.191015

Oracle Grid Infrastructure Clone, Oracle Database Clone, and ISO Image Patches

See the chapter *Oracle Database Appliance Release 19.5 Patches* for patch details and links.

Oracle Database Appliance patches are available in My Oracle Support. When selecting a patch, ensure that you select Oracle Database Appliance release 19.5 from the drop down list.

- **Oracle Database Appliance 19.5.0.0.0 GI Clone for ODACLI/DCS stack:** Use patch 30403673 to perform an initial deployment of Oracle Database Appliance. The bundle contains the latest Oracle Grid Infrastructure components for deployment on an Oracle Database Appliance in the "shipped from factory" state, or an Oracle Database Appliance that has been re-imaged using the operating system ISO Image. This patch is for all Oracle Database Appliance Hardware Models (bare mMetal).

- **Oracle Database Appliance 19.5.0.0.0 RDBMS Clone File for ODACLI/DCS stack:** Use the Oracle RDBMS 19.5.0.0.191015 Software Clone file to create 19.5.0.0.191015 Oracle Database homes. Patch 30403662 provides the database

clone for this update. This patch is for all Oracle Database Appliance Hardware Models (bare metal).

- **Oracle Database Appliance 19.5.0.0.0 ISO Image (Bare Metal):** Use patch 30403643 to perform a bare metal restore (re-image) of the operating system. Bare metal is a non-virtualized Oracle Database Appliance configuration. Use only when you must re-image the operating system.

2
Component Versions for Oracle Database Appliance

Review the component versions available for Oracle Database Appliance for supported hardware models for this release.

- Component Versions for Oracle Database Appliance X8-2 Models
  The matrix displays the component versions available for Oracle Database Appliance for X8-2S, X8-2M, and X8-2-HA.

- Component Versions for Oracle Database Appliance X7-2 Models
  The matrix displays the component versions available for Oracle Database Appliance for X7-2S, X7-2M, and X7-2-HA.

- Component Versions for X6-2S, X6-2M, and X6-2L Models
  The matrix display the component versions available for Oracle Database Appliance for X6-2S, X6-2M, and X6-2L.

- Component Versions for Oracle Database Appliance X6-2-HA Models
  The matrix displays the component versions available for Oracle Database Appliance for X6-2-HA.

- Component Versions for X5-2 Models
  The matrix display the component versions available for Oracle Database Appliance for X5-2.

Component Versions for Oracle Database Appliance X8-2 Models

The matrix displays the component versions available for Oracle Database Appliance for X8-2S, X8-2M, and X8-2-HA.

Table 2-1   Component Versions for X8-2-HA, X8-2M, and X8-2S in Oracle Database Appliance Release 19.5

Component Name	X8-2-HA	X8-2S and X8-2M
Controller	13.00.00.00	Not applicable
Expander	0306	Not applicable
SSD	A902	Not applicable
NVMe (firmware version)	Not applicable	VDV1RL02
OS Disk (SSD firmware version)	0121	0121
ILOM (Oracle Integrated Lights Out Manager)	4.0.4.38.r130206	4.0.4.38.r130206
BIOS	52010400	52010400

Table 2-1   (Cont.) Component Versions for X8-2-HA, X8-2M, and X8-2S in Oracle Database Appliance Release 19.5

Component Name	X8-2-HA	X8-2S and X8-2M
IPMI (Intelligent Platform Management Interface)	1.8.15.0	1.8.15.0
HMP (Oracle Hardware Management Pack)	2.4.5.0.1	2.4.5.0.1
Oracle Linux	7.7	7.7
Kernel	4.14.35-1902.5.2.el7uek.x86_64	4.14.35-1902.5.2.el7uek.x86_64
GI_HOME	19.5.0.0.191015	19.5.0.0.191015
DB_HOME	19.5.0.0.191015	19.5.0.0.191015
Oracle Auto Service Request (Oracle ASR)	18.3.1	18.3.1

Component Versions for Oracle Database Appliance X7-2 Models

The matrix displays the component versions available for Oracle Database Appliance for X7-2S, X7-2M, and X7-2-HA.

Table 2-2   Component Versions for X7-2-HA, X7-2M, and X7-2S in Oracle Database Appliance Release 19.5

Component Name	X7-2-HA	X7-2S and X7-2M
Controller	13.00.00.00	Not applicable
Expander	0306	Not applicable
SSD	A122 For the HDD/SSD option: A374/A087	A122
NVMe (firmware version)	Not applicable	QDV1RF30
OS Disk (SSD firmware version)	0112	0112
ILOM (Oracle Integrated Lights Out Manager)	4.0.4.40-es-r130348	4.0.4.40-es-r130348
BIOS	41060300	41060300
IPMI (Intelligent Platform Management Interface)	1.8.15.0	1.8.15.0
HMP (Oracle Hardware Management Pack)	2.4.5.0.1	2.4.5.0.1
Oracle Linux	7.7	7.7
Kernel	4.14.35-1902.5.2.el7uek.x86_64	4.14.35-1902.5.2.el7uek.x86_64
GI_HOME	19.5.0.0.191015	19.5.0.0.191015
DB_HOME	19.5.0.0.191015	19.5.0.0.191015

Table 2-2   (Cont.) Component Versions for X7-2-HA, X7-2M, and X7-2S in Oracle Database Appliance Release 19.5

Component Name	X7-2-HA	X7-2S and X7-2M
Oracle Auto Service Request (Oracle ASR)	18.3.1	18.3.1

Component Versions for X6-2S, X6-2M, and X6-2L Models

The matrix display the component versions available for Oracle Database Appliance for X6-2S, X6-2M, and X6-2L.

Table 2-3   Component Versions for Oracle Database Appliance X6-2S, X6-2M, and X6-2L in Oracle Database Appliance Release 19.5

Component Name	Version
Controller	4.650.00-7176
NVMe (firmware version)	KPYAIR3Q
OS Disk	OR3Q
ILOM (Oracle Integrated Lights Out Manager)	X6-2SM: 4.0.4.37.r130617 X6-2L:4.0.0.24.r121140
BIOS	X6-2SM:38130200 X6-2L:39090000
IPMI (Intelligent Platform Management Interface)	1.8.15.0
HMP (Oracle Hardware Management Pack)	2.4.5.0.1
Oracle Linux	7.7
Kernel	4.14.35-1902.5.2.el7uek.x86_64
GI_HOME	19.5.0.0.191015
DB_HOME	19.5.0.0.191015
Oracle Auto Service Request (Oracle ASR)	18.3.1

Component Versions for Oracle Database Appliance X6-2-HA Models

The matrix displays the component versions available for Oracle Database Appliance for X6-2-HA.

Table 2-4   Component Versions for Oracle Database Appliance X6-2-HA in Oracle Database Appliance Release 19.5

Component Name	Version
Controller_INT	4.650.00-7176
Controller_Ext	13.00.00.00

Table 2-4   (Cont.) Component Versions for Oracle Database Appliance X6-2-HA in Oracle Database Appliance Release 19.5

Component Name	Version
Expander	0306
SSD_LOCAL	OR3Q
SSD_SHARED	A29A
ILOM (Oracle Integrated Lights Out Manager)	4.0.4.37 r130617
BIOS	38130200
IPMI (Intelligent Platform Management Interface)	1.8.15.0
HMP (Oracle Hardware Management Pack)	2.4.5.0.1
Oracle Linux	7.7
Kernel	4.14.35-1902.5.2.el7uek.x86_64
GI_HOME	19.5.0.0.191015
DB_HOME	19.5.0.0.191015
Oracle Auto Service Request (Oracle ASR)	18.3.1

Component Versions for X5-2 Models

The matrix display the component versions available for Oracle Database Appliance for X5-2.

Table 2-5   Component Versions for Oracle Database Appliance X5-2 for Oracle Database Appliance Release 19.5

Component Name	Version
Controller_INT	4.650.00-7176
Controller_Ext	13.00.00.00
Expander	001E
SSD_LOCAL	n/a
SSD_SHARED	A29A
HDD_LOCAL	A7E0
HDD_SHARED	A3A0, PAG1
ILOM (Oracle Integrated Lights Out Manager)	4.0.4.37 r130617
BIOS	30150300
IPMI (Intelligent Platform Management Interface)	1.8.15.0
HMP (Oracle Hardware Management Pack)	2.4.5.0.1
Oracle Linux	7.7
Kernel	4.14.35-1902.5.2.el7uek.x86_64
GI_HOME	19.5.0.0.191015
DB_HOME	19.5.0.0.191015

Table 2-5   (Cont.) Component Versions for Oracle Database Appliance X5-2 for Oracle Database Appliance Release 19.5

Component Name	Version
Oracle Auto Service Request (Oracle ASR)	18.3.1

3

Oracle Database Appliance 19.5 Patches

Get information about Oracle Database Appliance patches for this release, the download locations, and how to apply the patches.

- Minimum Software Version Requirements
  Review the minimum software version requirements for installing this release of Oracle Database Appliance.
- Oracle Database Appliance X8-2S, X8-2M, and X8-2-HA Patches
  Download the patches available for Oracle Database Appliance X8-2S, X8-2M, and X8-2-HA in My Oracle Support, get information on the prerequisites, and how to apply the patches.
- Oracle Database Appliance X7-2S, X7-2M, and X7-2-HA Patches
  Download the patches available for Oracle Database Appliance X7-2S, X7-2M, and X7-2-HA in My Oracle Support, get information on the prerequisites, and how to apply the patches.
- Oracle Database Appliance X6-2S, X6-2M, and X6-2L Patches
  Download the patches available for Oracle Database Appliance X6-2S, X6-2M, and X6-2L in My Oracle Support, get information on the prerequisites, and how to apply the patches.
- Oracle Database Appliance X6-2-HA Patches
  Download the patches available for Oracle Database Appliance X6-2-HA in My Oracle Support, get information on the prerequisites, and how to apply the patches.
- Oracle Database Appliance X5-2 Patches
  Download the patches available for Oracle Database Appliance X5-2 in My Oracle Support, get information on the prerequisites, and how to apply the patches.

Minimum Software Version Requirements

Review the minimum software version requirements for installing this release of Oracle Database Appliance.

You can provision Oracle Database Appliance release 19.5 on Oracle Database Appliance bare metal systems.

Oracle Database Appliance X8-2S, X8-2M, and X8-2-HA Patches

Download the patches available for Oracle Database Appliance X8-2S, X8-2M, and X8-2-HA in My Oracle Support, get information on the prerequisites, and how to apply the patches.

When downloading a patch from My Oracle Support, select Oracle Database Appliance release 19.5 from the release list.

Table 3-1   Oracle Database Appliance X8-2S, X8-2M, and X8-2-HA Patches for Oracle Database Appliance Release 19.5

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance ISO Image	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance release 19.5. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance GI Clone for ODACLI/DCS stack	30403673	Use to perform an initial deployment of Oracle Database Appliance. The bundle contains the latest Oracle Grid Infrastructure and database components for deployment on an Oracle Database Appliance after re-imaging Oracle Database Appliance with the 19.5 ISO Image.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack	30403662	Use Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack to create 19.5 database homes for the ODACLI/DCS stack.	Updating Oracle Database Appliance Repository with Database Clone Files

Oracle Database Appliance X7-2S, X7-2M, and X7-2-HA Patches

Download the patches available for Oracle Database Appliance X7-2S, X7-2M, and X7-2-HA in My Oracle Support, get information on the prerequisites, and how to apply the patches.

When downloading a patch from My Oracle Support, select Oracle Database Appliance release 19.5 from the release list.

Table 3-2   Oracle Database Appliance X7-2S, X7-2M, and X7-2-HA Patches for Oracle Database Appliance Release 19.5

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance ISO Image	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance release 19.5. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance GI Clone for ODACLI/DCS stack	30403673	Use to perform an initial deployment of Oracle Database Appliance. The bundle contains the latest Oracle Grid Infrastructure and database components for deployment on an Oracle Database Appliance after re-imaging Oracle Database Appliance with the 19.5 ISO Image.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack	30403662	Use Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack to create 19.5 database homes for the ODACLI/DCS stack.	Updating Oracle Database Appliance Repository with Database Clone Files

Oracle Database Appliance X6-2S, X6-2M, and X6-2L Patches

Download the patches available for Oracle Database Appliance X6-2S, X6-2M, and X6-2L in My Oracle Support, get information on the prerequisites, and how to apply the patches.

When downloading a patch from My Oracle Support, select Oracle Database Appliance release 19.5 from the release list.

Table 3-3   Oracle Database Appliance X6-2S, X6-2M, and X6-2L Patches for Oracle Database Appliance Release 19.5

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance ISO Image	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance release 19.5. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance GI Clone for ODACLI/DCS stack	30403673	Use to perform an initial deployment of Oracle Database Appliance. The bundle contains the latest Oracle Grid Infrastructure and database components for deployment on an Oracle Database Appliance after re-imaging Oracle Database Appliance with the 19.5 ISO Image.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack	30403662	Use Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack to create 19.5 database homes for the ODACLI/DCS stack.	Updating Oracle Database Appliance Repository with Database Clone Files

Oracle Database Appliance X6-2-HA Patches

Download the patches available for Oracle Database Appliance X6-2-HA in My Oracle Support, get information on the prerequisites, and how to apply the patches.

When downloading a patch from My Oracle Support, select Oracle Database Appliance release 19.5 from the release list.

Table 3-4   Oracle Database Appliance X6-2-HA Patches for Oracle Database Appliance Release 19.5

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance ISO Image	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance release 19.5. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance GI Clone for ODACLI/DCS stack	30403673	Use to perform an initial deployment of Oracle Database Appliance. The bundle contains the latest Oracle Grid Infrastructure and database components for deployment on an Oracle Database Appliance after re-imaging Oracle Database Appliance with the 19.5 ISO Image.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack	30403662	Use Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack to create 19.5 database homes for the ODACLI/DCS stack.	Updating Oracle Database Appliance Repository with Database Clone Files

Oracle Database Appliance X5-2 Patches

Download the patches available for Oracle Database Appliance X5-2 in My Oracle Support, get information on the prerequisites, and how to apply the patches.

When downloading a patch from My Oracle Support, select Oracle Database Appliance release 19.5 from the release list.

Table 3-5   Oracle Database Appliance X5-2 Patches for Oracle Database Appliance Release 19.5

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance ISO Image	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance release 19.5. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance GI Clone for ODACLI/DCS stack	30403673	Use to perform an initial deployment of Oracle Database Appliance. The bundle contains the latest Oracle Grid Infrastructure and database components for deployment on an Oracle Database Appliance after re-imaging Oracle Database Appliance with the 19.5 ISO Image.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack	30403662	Use Oracle Database Appliance RDBMS Clone 19.5.0.0.191015 for ODACLI/DCS stack to create 19.5 database homes for the ODACLI/DCS stack.	Updating Oracle Database Appliance Repository with Database Clone Files

4

Known Issues with Oracle Database Appliance in This Release

The following are known issues deploying, updating, and managing Oracle Database Appliance in this release.

- **Known Issues When Deploying Oracle Database Appliance**
  Understand the known issues when provisioning or deploying Oracle Database Appliance.
- **Known Issues When Managing Oracle Database Appliance**
  Understand the known issues when managing or administering Oracle Database Appliance.

Known Issues When Deploying Oracle Database Appliance

Understand the known issues when provisioning or deploying Oracle Database Appliance.

- **Changing the CPU core count after provisioning appliance fails**
  On a newly-provisioned Oracle Database Appliance system, changing the CPU core count fails.
- **Deleting single-instance or Oracle RAC One Database on remote node fails**
  Deleting single-instance or Oracle RAC One Database on remote node fails.
- **Error when running ORAchk**
  Running the command `tfactl run orachk -a` fails.
- **Only one network interface displayed after rebooting node**
  After rebooting the node, only one network interface is displayed.
- **DCS-10045:Validation error encountered: Error retrieving the cpucores**
  When deploying the appliance, DCS-10045 error appears. There is an error retrieving the CPU cores of the second node.
- **Error encountered after running cleanup.pl**
  Errors encountered in running `odacli` commands after running `cleanup.pl`.
- **Accelerator volume for data is not created on flash storage**
  The accelerator volume for data is not created on flash storage, for databases created during provisioning of appliance.
- **Error in provisioning Oracle ASM Database on FLASH storage**
  On Oracle Database Appliance High-Availability systems with High Capacity storage, Oracle ASM Database creation on FLASH storage fails.
- **Database creation fails for odb-01s DSS databases**
  When attempting to create an DSS database with shape odb-01s, the job may fail with errors.

Changing the CPU core count after provisioning appliance fails

On a newly-provisioned Oracle Database Appliance system, changing the CPU core count fails.

An Oracle Database Appliance system is provisioned with all CPU cores enabled by default. You can change the CPU core count after provisioning the appliance with the command `odacli update-cpucore -c count`. Changing the CPU core count fails in the following provisioning cases:

- If you provision an Oracle Database Appliance system with Oracle Database Appliance release 19.5, and change the CPU core count as a postinstallation task, then the provisioning fails with the error message:

  ```
  Apply one-off fix for Bug 30269395 on both nodes in order to update CPU
  cores. Please refer to 18.7.0.0.0 Release Notes.
  ```

  Workaround:

  1. Download and apply the patch for bug 30269395 available on My Oracle Support:

     https://support.oracle.com/rs?type=patch&id=30269395.

  2. After the patch is successfully applied, change the CPU core count with the command `odacli update-cpucore`.

- On a new Oracle Database Appliance system, that is not yet provisioned, changing the CPU core count fails with the following error message:

  ```
  ODA system needs to be provisioned with full CPU cores before updating
  CPU cores. Please refer to 18.7.0.0.0 release notes.
  ```

  Workaround:

  1. Provision the system with Oracle Database Appliance release 19.5.

  2. Download and apply the patch for bug 30269395 available on My Oracle Support:

     https://support.oracle.com/rs?type=patch&id=30269395.

  3. After the patch is successfully applied, change the CPU core count with the command `odacli update-cpucore`.

Hardware Models

All Oracle Database Appliance hardware models

This issue is tracked with Oracle bug 30313635.

Deleting single-instance or Oracle RAC One Database on remote node fails

Deleting single-instance or Oracle RAC One Database on remote node fails.

The following error message is displayed.

```
Missing arguments : required sqlplus connection  information is not
provided.
```

Hardware Models

Oracle Database Appliance hardware models with Flex diskgroup

Workaround

Delete the single-instance or Oracle RAC One Database on the local node.

This issue is tracked with Oracle bug 30498134.

Error when running ORAchk

Running the command `tfactl run orachk -a` fails.

The following error message is displayed.

```
ORAchk is not able to determine Oracle Database Appliance Hardware type.
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Instead, run the command `orachk -a`.

This issue is tracked with Oracle bug 30454351.

Only one network interface displayed after rebooting node

After rebooting the node, only one network interface is displayed.

When both nodes reboot or power on simultaneously, only one of HAIP interfaces is used and Oracle ASM may not be able to start. The `netstat` command returns only one of two interfaces.

```
# netstat -nr | grep 169
169.254.0.0    0.0.0.0         255.255.0.0    U         0 0          0
eth0
```

Ensure that the `ora.cluster_interconnect.haip` is ONLINE on one node before rebooting (or powering on) on the other node.

```
# /u01/app/18.0.0.0/grid/bin/crsctl stat res -t -init|grep -A1
ora.cluster_interconnect.haip
--------------------------------------------------------------------------------
---
--
Name             Target  State        Server                       State
details

--------------------------------------------------------------------------------
---
--
Cluster Resources
--------------------------------------------------------------------------------
---
--
ora.cluster_interconnect.haip
      1          ONLINE  ONLINE       <hostname>                   STABLE
```

Hardware Models

Oracle Database Appliance hardware models baremetal deployments on X4-2 and X7-2. X5-2 and X6-2 baremetal deployments with Infiniband Interconnect are not affected.

Workaround

If both nodes are already rebooted simultaneously and only one interface is configured for high-availability, then stop `crs` on both nodes and start `crs` one by one.

1. Login as `root` in any node and stop the cluster with the `-all` option.

   ```
   # /u01/app/18.0.0.0/grid/bin/crsctl stop cluster -all
   ```

2. Stop `crs` on both nodes.

   ```
   [Node 0]
   # /u01/app/18.0.0.0/grid/bin/crsctl stop crs
   [Node 1]
   # /u01/app/18.0.0.0/grid/bin/crsctl stop crs
   ```

3. Start `crs` on each node, one by one.

   ```
   [Node 0]
   # /u01/app/18.0.0.0/grid/bin/crsctl start crs
   [Node 1]
   # /u01/app/18.0.0.0/grid/bin/crsctl start crs
   ```

This issue is tracked with Oracle bug 29613692.

DCS-10045:Validation error encountered: Error retrieving the cpucores

When deploying the appliance, DCS-10045 error appears. There is an error retrieving the CPU cores of the second node.

Hardware Models

Oracle Database Appliance X7-2-HA

Workaround

1. Remove the following directory in Node0: `/opt/oracle/dcs/repo/node_0`

2. Remove the following directory in Node1: `/opt/oracle/dcs/repo/node_1`

3. Restart the `dcs-agent` on both nodes.

   ```
   cd /opt/oracle/dcs/bin
   initctl stop initdcsagent
   initctl start initdcsagent
   ```

This issue is tracked with Oracle bug 27527676.

Error encountered after running cleanup.pl

Errors encountered in running `odacli` commands after running `cleanup.pl`.

After running `cleanup.pl`, when you try to use `odacli` commands, the following error is encountered:

```
DCS-10042:User oda-cliadmin cannot be authorized.
```

Hardware Models

All Oracle Database Appliance hardware models for bare metal deployments

Workaround

Run the following commands to set up the credentials for the user `oda-cliadmin` on the agent wallet:

```
# rm -rf /opt/oracle/dcs/conf/.authconfig
# /opt/oracle/dcs/bin/setupAgentAuth.sh
```

This issue is tracked with Oracle bug 29038717.

Accelerator volume for data is not created on flash storage

The accelerator volume for data is not created on flash storage, for databases created during provisioning of appliance.

Hardware Models

Oracle Database Appliance high capacity environments with HDD disks

Workaround

Do not create the database when provisioning the appliance. This creates all required disk groups, including flash. After provisioning the appliance, create the database. The accelerator volume is then created.

This issue is tracked with Oracle bug 28836461.

Error in provisioning Oracle ASM Database on FLASH storage

On Oracle Database Appliance High-Availability systems with High Capacity storage, Oracle ASM Database creation on FLASH storage fails.

This issue occurs because the FLASH disk group is not mounted.

Hardware Models

All Oracle Database Appliance high-availability hardware models with High Capacity storage configuration

Workaround

Provision the appliance without creating the database, and then create the database.

This issue is tracked with Oracle bug 30309798.

Database creation fails for odb-01s DSS databases

When attempting to create an DSS database with shape odb-01s, the job may fail with errors.

```
CRS-2674: Start of 'ora.test.db' on 'example_node' failed
CRS-5017: The resource action "ora.test.db start" encountered the following
error:
ORA-03113: end-of-file on communication channel
Process ID: 0
Session ID: 0 Serial number: 0
. For details refer to "(:CLSN00107:)" in
"/u01/app/grid/diag/crs/example_node/crs/trace/crsd_oraagent_oracle.trc".
```

Hardware Models

Oracle Database Appliance X6-2-HA, X5-2, X4-2, X3-2, and V1

Workaround

There is no workaround. Select an alternate shape to create the database.

This issue is tracked with Oracle bug 27768012.

Known Issues When Managing Oracle Database Appliance

Understand the known issues when managing or administering Oracle Database Appliance.

- iRestore, recovery, and update operations on a database fail
  iRestore, recovery, and update operations on a database fail, if the ObjectStore Container used by the database already has a copy.

- Error when creating a backup network using the Web Console
  Creating a network of type Backup using the Web Console fails.

- Missing DATA, RECO, and REDO entries when dbstorage is rediscovered
  Running the `odacli update-registry` command with `-n all --force` or `-n dbstorage --force` option can result in metadata corruption.

- Incorrect Aura8 firmware value displayed
  The Aura8 firmware version displayed in the components list is incorrect.

- The odaeraser tool does not work if oakd is running in non-cluster mode
  After cleaning up the deployment, the Secure Eraser tool does not work if oakd is running in non-cluster mode.

- Issues with the Web Console on Microsoft web browsers
  Oracle Database Appliance Web Console has issues on Microsoft Edge and Microsoft Internet Explorer web browsers.

- Disk space issues due to Zookeeper logs size
  The Zookeeper log files, `zookeeper.out` and `/opt/zookeeper/log/zkMonitor.log`, are not rotated, when new logs are added. This can cause disk space issues.

- Error after running the cleanup script
  After running the `cleanup.pl` script, the following error message appears:
  `DCS-10001:Internal error encountered: Fail to start hand shake.`

- Error in node number information when running network CLI commands
  Network information for node0 is always displayed for some `odacli` commands, when the `-u` option is not specified.

iRestore, recovery, and update operations on a database fail

iRestore, recovery, and update operations on a database fail, if the ObjectStore Container used by the database already has a copy.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

When performing iRestore, recovery, and update operations on a database, ensure that files are not copied to the ObjectStore Container.

This issue is tracked with Oracle bug 30529607.

Error when creating a backup network using the Web Console

Creating a network of type Backup using the Web Console fails.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Log out and log into the Web Console and try the operation again.

This issue is tracked with Oracle bug 30535375.

Missing DATA, RECO, and REDO entries when dbstorage is rediscovered

Running the `odacli update-registry` command with `-n all --force` or `-n dbstorage --force` option can result in metadata corruption.

Hardware Models

All Oracle Database Appliance hardware models bare metal deployments

Workaround

Run the `-all` option when all the databases created in the system use OAKCLI in migrated systems. On other systems that run on DCS stack, update all components other than dbstorage individually, using the `odacli update-registry -n` *component_name_to_be_updated_excluding_dbstorage*.

This issue is tracked with Oracle bug 30274477.

Incorrect Aura8 firmware value displayed

The Aura8 firmware version displayed in the components list is incorrect.

Models

Oracle Database Appliance X8-2S and X8-2M

Workaround

None.

This issue is tracked with Oracle bug 30340410.

The odaeraser tool does not work if oakd is running in non-cluster mode

After cleaning up the deployment, the Secure Eraser tool does not work if oakd is running in non-cluster mode.

Hardware Models

All Oracle Database Appliance Hardware bare metal systems

Workaround

After cleanup of the deployment, `oakd` is started in the non-cluster mode, and it cannot be stopped using "odaadmcli stop oak" command. In such a case, if the Secure Erase tool is run, then the odaeraser command fails.

Use the command `odaadmcli shutdown oak` to stop `oakd`.

This issue is tracked with Oracle bug 28547433.

Issues with the Web Console on Microsoft web browsers

Oracle Database Appliance Web Console has issues on Microsoft Edge and Microsoft Internet Explorer web browsers.

Following are issues with Microsoft web browsers:

- Oracle Database Appliance Web Console does not display correctly on Microsoft Edge and Microsoft Internet Explorer web browsers.

- Advanced Information for the appliance does not display on Microsoft Internet Explorer web browser.

- Job activity status does not refresh in the Web Console on Microsoft Internet Explorer web browser.

- After configuring the oda-admin password, the following error is displayed:

  ```
  Failed to change the default user (oda-admin) account password.
  Status Code: 500 DCS-10001: DCS-10001:Internal error encountered: User
  not authorized
  ```

  Workaround: Close the Microsoft Internet Explorer browser session and open another browser session.

Models

All Oracle Database Appliance Hardware Models bare metal deployments

Workaround

To access the Web Console, use either Google Chrome or Firefox.

This issue is tracked with Oracle bugs 27798498, 27028446, 30077007, 30099089, 29887027, and 27799452.

Disk space issues due to Zookeeper logs size

The Zookeeper log files, `zookeeper.out` and `/opt/zookeeper/log/zkMonitor.log`, are not rotated, when new logs are added. This can cause disk space issues.

Hardware Models

All Oracle Database Appliance hardware models for bare metal deployments

Workaround

Rotate the zookeeper log file manually, if the log file size increases, as follows:

1. Stop the DCS-agent service for zookeeper on both nodes.

   ```
   initctl stop initdcsagent
   ```

2. Stop the zookeeper service on both nodes.

```
/opt/zookeeper/bin/zkServer.sh stop
```

3. Clean the zookeeper logs after taking the backup, by manually deleting the existing file or by following steps 4 to 10.

4. Set the `ZOO_LOG_DIR` as an environment variable to a different log directory, before starting the zookeeper server.

```
export ZOO_LOG_DIR=/opt/zookeeper/log
```

5. Switch to `ROLLINGFILE`, to set the capability to roll.

```
export ZOO_LOG4J_PROP="INFO, ROLLINGFILE"
```

Restart the zookeeper server, for the changes to take effect.

6. Set the following parameters in the `/opt/zookeeper/conf/log4j.properties` file, to limit the number of backup files, and the file sizes.

```
zookeeper.log.dir=/opt/zookeeper/log
zookeeper.log.file=zookeeper.out
log4j.appender.ROLLINGFILE.MaxFileSize=10MB
log4j.appender.ROLLINGFILE.MaxBackupIndex=10
```

7. Start zookeeper on both nodes.

```
/opt/zookeeper/bin/zkServer.sh start
```

8. Check the zookeeper status, and verify that zookeeper runs in `leader/follower/standalone` mode.

```
/opt/zookeeper/bin/zkServer.sh status
ZooKeeper JMX enabled by default
Using config: /opt/zookeeper/bin/../conf/zoo.cfg
Mode: follower
```

9. Start the dcs agent on both nodes.

```
initctl start initdcsagent
```

10. Purge the zookeeper monitor log, `zkMonitor.log`, in the location `/opt/zookeeper/log`. You do not have to stop the zookeeper service.

This issue is tracked with Oracle bug 29033812.

Error after running the cleanup script

After running the `cleanup.pl` script, the following error message appears:
`DCS-10001:Internal error encountered: Fail to start hand shake.`

The error is causes when you run the following steps:

1. Run `cleanup.pl` on the first node (Node0). Wait until the cleanup script finishes, then reboot the node.

2. Run `cleanup.pl` on the second node (Node1). Wait until the cleanup script finishes, then reboot the node.

3. After both nodes are started, use the command-line interface to list the jobs on Node0. An internal error appears.

```
# odacli list-jobs
DCS-10001:Internal error encountered: Fail to start hand shake to
localhost:7070
```

Hardware Models

Oracle Database Appliance X7-2-HA

Workaround

1. Verify the zookeeper status on the both nodes before starting `dcsagent`:

```
/opt/zookeeper/bin/zkServer.sh status
```

For a single-node environment, the status should be: leader, or follower, or standalone.

2. Restart the `dcsagent` on Node0 after running the `cleanup.pl` script.

```
# initctl stop initdcsagent
# initctl start initdcsagent
```

Error in node number information when running network CLI commands

Network information for node0 is always displayed for some `odacli` commands, when the `-u` option is not specified.

If the `-u` option is not provided, then the `describe-networkinterface`, `list-networks` and the `describe-network odacli` commands always display the results for node0 (the default node), irrespective of whether the command is run from node0 or node1.

Hardware Models

Oracle Database Appliance X7-2-HA, X6-2-HA, X5-2, X4-2, X3-2, and V1

Workaround

Specify the `-u` option in the `odacli` command, for details about the current node.

This issue is tracked with Oracle bug 27251239.

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component versions, *2-1*–*2-3*