

Oracle® Database Appliance

Release Notes



Release 19.17 for Linux x86-64
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ORACLE®

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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](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

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 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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	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 19.17 supports Oracle Database 19c functionality on Oracle Database Appliance hardware models.

New Features

This release supports Oracle Database Appliance models X9-2-HA, X9-2L, X9-2S, X8-2-HA, X8-2M, X8-2S, X7-2-HA, X7-2M, X7-2S, X6-2S, X6-2M, X6-2L, X6-2-HA, and X5-2. You can create a bare metal deployment on Oracle Database Appliance or patch your existing bare metal deployment to Oracle Database Appliance release 19.17. You can also create and patch Oracle Database Appliance DB systems. Read the chapter *Known Issues with Oracle Database Appliance in This Release* for critical fixes before deploying Oracle Database Appliance release 19.17.

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

The following new features are available in this release:

- **Provisioning and Patching of Oracle Database Appliance Bare Metal Deployments**
This release supports for provisioning of bare metal deployments, and patching of Oracle Database Appliance bare metal deployments from Oracle Database Appliance release 19.13 and later.

Oracle Database Appliance provides support for out of place patching. The patches for Oracle Grid Infrastructure and Oracle Database are available as clone files. It is mandatory to run the `odacli create-prepatchreport` command before you patch the Oracle Database Appliance server and databases. You must fix the errors displayed in the report before you proceed with the patching operation. Ensure that you follow the sequence of steps for patching your appliance as described in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

See the chapter *Patching Oracle Database Appliance* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Provisioning and Patching of Oracle Database Appliance KVM and DB Systems**
This release supports provisioning of KVM and DB Systems, and patching of DB Systems from Oracle Database Appliance release 19.13 or later.

See the chapter *Patching Oracle Database Appliance* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for Oracle Database 21c and 19c databases on Oracle Database Appliance DB Systems**

This release supports creation of databases of Oracle Database releases 21.8, 21.7, 21.6, 21.5, 21.4, 21.3, 19.16, 19.15, 19.14, and 19.13 on DB systems. The Oracle Grid Infrastructure software installed is of the same version as the Oracle Database version you install. The version is specified in the database system JSON payload, with the attribute `version` for `database`.

For details on the JSON file changes for creating Oracle Database 21c and 19c databases on DB systems, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Error Correlation Reports on Oracle Database Appliance Browser User Interface (BUI)**

If a DCS job fails, an Error Correlation job is created automatically to generate an Error Correlation report. You can access and review the generated Error Correlation report from the BUI to explore possible ways of error resolution. Error correlation report displays errors from various logs, relevant Known Issues from the Oracle Database Appliance Release Notes, and Oracle Database Appliance documentation links.

For more information, see *Viewing Oracle Database Appliance Error Correlation Reports* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for Linux Kernel Core Extractor on Oracle Database Appliance Bare Metal Systems for Troubleshooting**

A Linux kernel panic can occur due to various reasons such as faulty hardware, driver crashes, or software bugs. To identify the cause of kernel panic, it is essential to collect and analyze the vmcore of the crashed kernel. When Linux Kernel Core Extractor is enabled on Oracle Database Appliance bare metal systems, the crash utility in the kdump kernel collects useful information for troubleshooting without generating vmcore. In this release of Oracle Database Appliance, the Linux Kernel Core Extractor is enabled to help troubleshoot your appliance.

For more information, see *About Enabling Linux Kernel Core Extractor for Troubleshooting* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Patching Individual Oracle Database on Oracle Database Appliance**

Starting with this release, Oracle Database Appliance provides the option to patch selected databases in a database home to a specific database home with the `odacli update-database` functionality. During the process, no extra database home is provisioned. A valid database home of later version must exist so that the specific database can be patched to this database home. You can also choose to run or rerun the `odacli update-database` workflow, to resume from the failed attempt of either an `odacli update-dbhome` or an `odacli update-database` job. The BUI also supports the `odacli update-database` functionality.

! Important:

The `odacli update-database` command that enabled association of a backup configuration with database was deprecated in Oracle Database Appliance release 19.6. Starting with Oracle Database Appliance release 19.17, the `odacli update-database` command enables database patching and is similar to the patching functionality that the `odacli update-dbhome` command provides, with a few differences as described in the *Oracle Database Appliance Deployment Guide* for your hardware model.

For more information, see *About Updating Databases and Database Homes* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Oracle Data Guard Patching Enhancement**

Oracle Database Appliance enhances Oracle Data Guard patching workflow of primary and standby databases to further minimize downtime using `odacli update-database` and `odacli switchover-dataguard` commands.

For more information, see *Patching Oracle Data Guard Databases* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Browser User Interface (BUI) Enhancements**

Oracle Database Appliance release 19.17 supports the following in the BUI:

- Display of Used and Available Space for VM storage
- New options to set the preferred node and failover for Oracle Database Appliance high-availability system
- Display of node name in the job details

For more information, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for STIG Version 2 Release 7 Compliance on Oracle Database Appliance**

Oracle Database Appliance provides support for Oracle Linux 7 Security Scripts (OLSS) to assist with documenting and aligning with the DISA Oracle Linux 7 STIG. OLSS enables you to verify your existing environment for STIG standards and secure your system against STIG settings that are not set to DISA standards.

Oracle Database Appliance bundles the STIG script in the directory `/opt/oracle/dcs/stig`. The `RunSTIG` script replaces the `stig.py` script from the earlier releases of Oracle Database Appliance.

See the *Oracle Database Appliance Security Guide* for more information.

- **Support for Oracle Enterprise Manager Plug-in with Oracle Database Appliance Release 19.17**

You can install and configure Oracle Enterprise Manager plug-in for Oracle Database Appliance. Oracle Enterprise Manager plug-in releases 13.2.4 and 13.4.2 require a patch to run on Oracle Database Appliance release 19.10 and later. Oracle Enterprise Manager plug-in release 13.4.3 does not require additional patch.

See the *Oracle Enterprise Manager Plugin for Oracle Database Appliance Release Notes* for more information.

- **Access to Oracle Database Appliance documentation from the Browser User Interface**

You can access the Oracle Database Appliance documentation set for this release from the Browser User Interface.

There is a search box at the top right hand corner of the BUI. Search results are links to documentation pages shown as a new window in the BUI. When you click the **Help** button, links from the documentation relevant to the context of the tab are displayed. Along with the search results from the Oracle Database Appliance documentation pages, BUI also provides relevant Frequently Asked Questions (FAQs) for the search query. Additionally, you can also search on DCS error codes such as DCS-10001, DCS-10032, and so on in the search box and get the links to documentation pages containing these error codes. When you specify the search query, relevant documentation, FAQs, and DCS error codes links are displayed in a new window in the BUI.

For the latest updates to the documentation for a release, see the online Oracle Database Appliance documentation library at <https://docs.oracle.com/en/engineered-systems/oracle-database-appliance/index.html>.

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

The following Oracle Grid Infrastructure and Oracle Database updates (October 2022 Oracle Database Release Update) for bare metal systems are available in this release:

— 19.17.0.0.221018

Additionally, note that the release also includes Oracle Grid Infrastructure and Oracle Database 21.8 updates (October 2022 Oracle Database Release Update 21.8.0.0.221018) for DB systems. Note that to update your databases on Oracle Database Appliance to releases later than Oracle Database 21.8 in the Oracle Database 21c release, you must use out-of-cycle patching functionality.

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

See the chapter *Oracle Database Appliance Release 19.17 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 19.17 from the drop down list.

- **Oracle Database Appliance 19.17.0.0.0 Server Patch for Bare Metal Systems:** Use patch 34753059 to update your bare metal deployment to Oracle Database Appliance release 19.17. You must download the Server Patch, Oracle Grid Infrastructure clone file, and the Oracle Database clone file to update your deployment to release 19.17.
- **Oracle Database Appliance 19.17.0.0.0 Grid Infrastructure Clone for Bare Metal Systems:** Use patch 30403673 to update your deployment to Oracle Database Appliance release 19.17. You also use this patch 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 metal).
- **Oracle Database Appliance 19.17.0.0.0 Database Clone File for Bare Metal Systems:** Use the Oracle Database 19.17.0.0.221018 Software Clone file to create 19.17.0.0.221018 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 KVM Database System Template:** Use the KVM Database System template to deploy KVM-based virtualization for Oracle Database Appliance. Patch 32451228 provides the database clone for this update.
- **Oracle Database Appliance 21.8.0.0.221018 GI Clone for DB Systems:** Use patch 33152235 to perform an initial deployment of Oracle Database Appliance on DB Systems for creating Oracle Database 21c databases. This patch is for Oracle Database Appliance Hardware Models with DB systems only.
- **Oracle Database Appliance 21.8.0.0.221018 Database Clone File for DB Systems:** Use the Oracle Database 21.8.0.0.221018 Software Clone file to create 21.8.0.0.221018 Oracle Database homes. Patch 33152237 provides the database clone for this update. This patch is for Oracle Database Appliance Hardware Models with DB systems only.
- **Oracle Database Appliance Upgrade Utility for 12.1.2.12, 12.2.1.4, 18.3, 18.5, 18.7, 18.8 OAK/DCS Stack:** Use the Oracle Database Appliance upgrade utility to update your deployment to Oracle Database Appliance release 19.17. You must

download the utility to run the first step of Data Preserving Reprovisioning feature. Patch 33594115 provides the utility.

Related Topics

- Oracle Database Appliance Checklists
- Patching Oracle Database Appliance
- Oracle Database Appliance Command Line Interface Reference
- Patching Oracle Data Guard Databases
- Viewing Oracle Database Appliance Error Correlation Reports
- About Updating Databases and Database Homes
- About Enabling Linux Kernel Core Extractor for Troubleshooting
- [Known Issues with Oracle Database Appliance in This Release](#)
The following are known issues deploying, updating, and managing Oracle Database Appliance in this release.
- Enterprise Manager Plugin for Oracle Database Appliance
- Data Preserving Reprovisioning FAQs

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 X9-2 Models](#)
The matrix displays the component versions available for Oracle Database Appliance for X9-2S, X9-2L, and X9-2-HA.
- [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 X5-2 hardware models.

Component Versions for Oracle Database Appliance X9-2 Models

The matrix displays the component versions available for Oracle Database Appliance for X9-2S, X9-2L, and X9-2-HA.

Table 2-1 Component Versions for X9-2-HA, X9-2L, and X9-2S in Oracle Database Appliance Release 19.17

Component Name	X9-2-HA	X9-2S and X9-2L
Controller	16.00.08.00	Not applicable
Expander	0310	Not applicable
SSD	RXG0	Not applicable
NVMe (firmware version)	Not applicable	2CV1RC50
OS Disk (SSD firmware version)	XC311132	XC311132

Table 2-1 (Cont.) Component Versions for X9-2-HA, X9-2L, and X9-2S in Oracle Database Appliance Release 19.17

Component Name	X9-2-HA	X9-2S and X9-2L
ILOM (Oracle Integrated Lights Out Manager)	5.1.0.23.r147470	5.1.0.23.r147470
BIOS	62070300	62070300
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.8.9.603	2.4.8.9.603
Oracle Linux	7.9	7.9
AHF (Oracle Autonomous Health Framework)	22.2.5	22.2.5
MySQL	8.0.30-1	8.0.30-1
Kernel	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64
GI_HOME	19.17.0.0.221018	19.17.0.0.221018
DB_HOME	19.17.0.0.221018	19.17.0.0.221018
Oracle Auto Service Request (Oracle ASR)	22.1.0	22.1.0

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 2-2 Component Versions for X8-2-HA, X8-2M, and X8-2S in Oracle Database Appliance Release 19.17

Component Name	X8-2-HA	X8-2S and X8-2M
Controller	16.00.08.00	Not applicable
Expander	0310	Not applicable
SSD	A959	Not applicable
NVMe (firmware version)	Not applicable	VDV1RL04
OS Disk (SSD firmware version)	N2010121 or XC311132	N2010121
ILOM (Oracle Integrated Lights Out Manager)	5.1.0.23.r146986	5.1.0.23.r146986
BIOS	52080100	52080100
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0

Table 2-2 (Cont.) Component Versions for X8-2-HA, X8-2M, and X8-2S in Oracle Database Appliance Release 19.17

Component Name	X8-2-HA	X8-2S and X8-2M
HMP (Oracle Hardware Management Pack)	2.4.8.9.603	2.4.8.9.603
Oracle Linux	7.9	7.9
AHF (Oracle Autonomous Health Framework)	22.2.5	22.2.5
MySQL	8.0.30-1	8.0.30-1
Kernel	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64
GI_HOME	19.17.0.0.221018	19.17.0.0.221018
DB_HOME	19.17.0.0.221018	19.17.0.0.221018
Oracle Auto Service Request (Oracle ASR)	22.1.0	22.1.0

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 2-3 Component Versions for X7-2-HA, X7-2M, and X7-2S in Oracle Database Appliance Release 19.17

Component Name	X7-2-HA	X7-2S and X7-2M
Controller	16.00.08.00	Not applicable
Expander	0310	Not applicable
SSD	A170 For the HDD/SSD option: A374/A087	A170
NVMe (firmware version)	Not applicable	QDV1RF32
OS Disk (SSD firmware version)	N2010121	N2010121
ILOM (Oracle Integrated Lights Out Manager)	5.1.0.23.r146986	5.1.0.23.r146986
BIOS	41120100	41120100
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.8.9.603	2.4.8.9.603
Oracle Linux	7.9	7.9
AHF (Oracle Autonomous Health Framework)	22.2.5	22.2.5

Table 2-3 (Cont.) Component Versions for X7-2-HA, X7-2M, and X7-2S in Oracle Database Appliance Release 19.17

Component Name	X7-2-HA	X7-2S and X7-2M
MySQL	8.0.30-1	8.0.30-1
Kernel	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64
GI_HOME	19.17.0.0.221018	19.17.0.0.221018
DB_HOME	19.17.0.0.221018	19.17.0.0.221018
Oracle Auto Service Request (Oracle ASR)	22.1.0	22.1.0

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 2-4 Component Versions for Oracle Database Appliance X6-2S, X6-2M, and X6-2L in Oracle Database Appliance Release 19.17

Component Name	Version
Controller	4.650.00-7176
NVMe (firmware version)	KPYAJR3Q
OS Disk	OR3Q
ILOM (Oracle Integrated Lights Out Manager)	5.1.0.23.r146986
BIOS	X6-2SM:39370100 X6-2L:39370100
IPMI (Intelligent Platform Management Interface)	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.8.9.603
Oracle Linux	7.9
AHF (Oracle Autonomous Health Framework)	22.2.5
MySQL	8.0.30-1
Kernel	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64
GI_HOME	19.17.0.0.221018
DB_HOME	19.17.0.0.221018
Oracle Auto Service Request (Oracle ASR)	22.1.0

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 2-5 Component Versions for Oracle Database Appliance X6-2-HA in Oracle Database Appliance Release 19.17

Component Name	Version
Controller_INT	4.650.00-7176
Controller_Ext	16.00.08.00
Expander	0310
SSD_LOCAL	OR3Q
SSD_SHARED	A29A
ILOM (Oracle Integrated Lights Out Manager)	5.1.0.23.r146986
BIOS	38370100
IPMI (Intelligent Platform Management Interface)	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.8.9.603
Oracle Linux	7.9
AHF (Oracle Autonomous Health Framework)	22.2.5
MySQL	8.0.30-1
Kernel	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64
GI_HOME	19.17.0.0.221018
DB_HOME	19.17.0.0.221018
Oracle Auto Service Request (Oracle ASR)	22.1.0

Component Versions for X5-2 Models

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

Table 2-6 Component Versions for Oracle Database Appliance X5-2 for Oracle Database Appliance Release 19.17

Component Name	Version
Controller_INT	4.650.00-7176
Controller_Ext	16.00.08.00
Expander	001E
SSD_LOCAL	n/a
SSD_SHARED	A29A
HDD_LOCAL	A7E0
HDD_SHARED	A3A0, PAG1, PD51
ILOM (Oracle Integrated Lights Out Manager)	5.1.0.23.r146986
BIOS	30370100
IPMI (Intelligent Platform Management Interface)	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.8.9.603

Table 2-6 (Cont.) Component Versions for Oracle Database Appliance X5-2 for Oracle Database Appliance Release 19.17

Component Name	Version
Oracle Linux	7.9
Oracle Autonomous Health Framework (AHF)	22.2.5
MySQL	8.0.30-1
Kernel	kernel-uek-4.14.35-2047.518.4.1.el7uek.x86_64
GI_HOME	19.17.0.0.221018
DB_HOME	19.17.0.0.221018
Oracle Auto Service Request (Oracle ASR)	22.1.0

3

Oracle Database Appliance 19.17 Patches

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

- [Patching from Previous Releases](#)
Understand the minimum versions for patching Oracle Database Appliance to later releases.
- [Minimum Software Version Requirements](#)
Review the minimum software version requirements for installing this release of Oracle Database Appliance.
- [Oracle Database Appliance Bare Metal System and KVM Patches](#)
Download the patches available for Oracle Database Appliance in My Oracle Support, get information on the prerequisites, and how to apply the patches.

Patching from Previous Releases

Understand the minimum versions for patching Oracle Database Appliance to later releases.

Oracle recommends that you patch your Oracle Database Appliance deployment to within the previous four releases. There may be a minimum patch-level requirement for upgrades to certain releases. With this release of Oracle Database Appliance, there are a few changes to the patching procedure. Ensure that you follow the sequence of steps for patching your appliance as described in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

Use the following table as an indicator for minimum requirements for patching to a release.

Table 3-1 Minimum Patch Requirements for Oracle Database Appliance Releases

Oracle Database Appliance Release (To patch to this release...)	Earliest Supported Release To Patch From (Oracle recommends this release...)
19.17.0.0	For bare metal systems: <ul style="list-style-type: none">• 19.16.0.0• 19.15.0.0• 19.14.0.0• 19.13.0.0
19.16.0.0	For bare metal systems: <ul style="list-style-type: none">• 19.15.0.0• 19.14.0.0• 19.13.0.0• 19.12.0.0

Table 3-1 (Cont.) Minimum Patch Requirements for Oracle Database Appliance Releases

Oracle Database Appliance Release (To patch to this release...)	Earliest Supported Release To Patch From (Oracle recommends this release...)
19.15.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.14.0.0 • 19.13.0.0 • 19.12.0.0 • 19.11.0.0
19.14.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.13.0.0 • 19.12.0.0 • 19.11.0.0 • 19.10.0.0
19.13.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.12.0.0 • 19.11.0.0 • 19.10.0.0 • 19.9.0.0 For virtualized platform deployments: <ul style="list-style-type: none"> • 19.9.0.0 • 19.8.0.0
19.12.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.11.0.0 • 19.10.0.0 • 19.9.0.0 • 19.8.0.0
19.11.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.10.0.0 • 19.9.0.0 • 19.8.0.0 • 19.7.0.0
19.10.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.9.0.0 • 19.8.0.0 • 19.7.0.0 • 19.6.0.0
19.9.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.8.0.0 • 19.7.0.0 • 19.6.0.0 • 19.5.0.0 For virtualized platform deployments: <ul style="list-style-type: none"> • 19.8.0.0

Table 3-1 (Cont.) Minimum Patch Requirements for Oracle Database Appliance Releases

Oracle Database Appliance Release (To patch to this release...)	Earliest Supported Release To Patch From (Oracle recommends this release...)
19.8.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.7.0.0 • 19.6.0.0 • 19.5.0.0 For virtualized platform deployments: <ul style="list-style-type: none"> • 18.8.0.0
19.7.0.0	<ul style="list-style-type: none"> • 19.6.0.0 • 19.5.0.0
19.6.0.0	<ul style="list-style-type: none"> • 18.8.0.0
18.8.0.0	<ul style="list-style-type: none"> • 18.7.0.0 • 18.5.0.0 • 18.3.0.0
18.7.0.0	<ul style="list-style-type: none"> • 18.5.0.0 • 18.3.0.0
18.5.0.0	<ul style="list-style-type: none"> • 18.3.0.0
18.3.0.0	<ul style="list-style-type: none"> • 12.2.1.4.0 • 12.2.1.3.0 • 12.2.1.2.0 • 12.1.2.12
12.2.1.4.0	<ul style="list-style-type: none"> • 12.2.1.3.0 • 12.2.1.2.0 • 12.1.2.12
12.2.1.3.0	<ul style="list-style-type: none"> • 12.2.1.2.0 • 12.1.2.12
12.2.1.2.0	<ul style="list-style-type: none"> • 12.1.2.12 <p>Note: 12.2.1.2.0 is not supported on virtualized platform.</p>
12.1.2.12	<ul style="list-style-type: none"> • 12.1.2.11 • 12.1.2.10 • 12.1.2.9 • 12.1.2.8
12.1.2.11	<ul style="list-style-type: none"> • 12.1.2.10 • 12.1.2.9 • 12.1.2.8 • 12.1.2.7
12.1.2.10	<ul style="list-style-type: none"> • 12.1.2.9 • 12.1.2.8 • 12.1.2.7 • 12.1.2.6
12.1.2.9	<ul style="list-style-type: none"> • 12.1.2.8 • 12.1.2.7 • 12.1.2.6
12.1.2.5	12.1.2.0 to 12.1.2.4
12.1.2.0.0	2.2.0.0.0 to 2.10.0.0.0

Table 3-1 (Cont.) Minimum Patch Requirements for Oracle Database Appliance Releases

Oracle Database Appliance Release (To patch to this release...)	Earliest Supported Release To Patch From (Oracle recommends this release...)
2.2.0.0.0	2.1.0.3.1 or earlier

Release 12.2.1.1.0 is only supported on X7–2 models and hence is not listed in the table.

Related Topics

- Patching Oracle Database Appliance

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 19.17 on Oracle Database Appliance bare metal systems. You can patch your bare metal systems to Oracle Database Appliance release 19.17 from Oracle Database Appliance release 19.13 or later. You can also provision and patch Oracle Database Appliance DB systems on KVM to release 19.17.

Oracle Database Appliance Bare Metal System and KVM Patches

Download the patches available for Oracle Database Appliance 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 19.17 from the release list.

Table 3-2 Oracle Database Appliance Patches for Oracle Database Appliance Release 19.17

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance Server Patch for Bare Metal Systems	34753059	Use the server patch to update your deployment to Oracle Database Appliance release 19.17. You must download the Server Patch, Oracle Grid Infrastructure clone file, and the Oracle Database clone file to update your deployment to release 19.17.	Patching Oracle Database Appliance

Table 3-2 (Cont.) Oracle Database Appliance Patches for Oracle Database Appliance Release 19.17

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance Grid Infrastructure Clone for Bare Metal Systems	30403673	Use patch 30403673 to update your deployment to Oracle Database Appliance release 19.17. You also use this patch 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 Oracle Database Appliance ISO Image for release 19.17.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance Database Clone 19.17.0.0.221018 for Bare Metal Systems	30403662	Use Oracle Database Appliance Database Clone 19.17.0.0.221018 for ODACLI/DCS stack to create 19.17 database homes for the ODACLI/DCS stack.	Updating Oracle Database Appliance Repository with Database Clone Files
Oracle Database Appliance ISO Image	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance 19.17. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance KVM DB System Template	32451228	Use the KVM DB System template to deploy KVM-based virtualization for Oracle Database Appliance 19.17.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 21.8.0.0.221018 GI Clone for DB Systems	33152235	Use the Oracle Grid Infrastructure 21c clone file to deploy Oracle Database 21c database on DB system.	Managing DB Systems in KVM Deployment

Table 3-2 (Cont.) Oracle Database Appliance Patches for Oracle Database Appliance Release 19.17

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance 21.8.0.0.221018 Database Clone for DB Systems	33152237	Use the Oracle Database Appliance 21.8.0.0.221018 clone file to deploy Oracle Database 21c database on DB system.	Managing DB Systems in KVM Deployment
Oracle Database Appliance Upgrade Utility for 12.1.2.12, 12.2.1.4, 18.3, 18.5, 18.7, 18.8 OAK/DCS Stack	33594115	Use the Oracle Database Appliance upgrade utility to update your deployment to Oracle Database Appliance release 19.17. You must download the utility to run the first step of Data Preserving Reprovisioning feature.	Upgrading Oracle Database Appliance Using Data Preserving Reprovisioning

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 Patching Oracle Database Appliance](#)
Understand the known issues when patching Oracle Database Appliance to 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 Patching Oracle Database Appliance

Understand the known issues when patching Oracle Database Appliance to this release.

- [Error in updating the operating system when patching the server](#)
When patching the server to Oracle Database Appliance release 19.15, the operating system may not be updated.
- [Error in server patching during DB system patching](#)
When patching the server during DB system patching to Oracle Database Appliance release 19.15, an error may be encountered.
- [Component version not updated after patching](#)
After patching the server to Oracle Database Appliance release 19.16, the `odacli describe-component` command does not display the correct Intel Model 0x1528 Ethernet Controller version, if the current version is 8000047B or 8000047C.
- [Error in the precheck report when patching database](#)
In the precheck report for applying data patch, an error may be encountered.
- [Error in patching database using the `odacli update-database` command](#)
After patching a database with the `odacli update-database` command, an error may be encountered.
- [Error in upgrading database home](#)
When patching a database home to Oracle Database Appliance release 19.17, an error may be encountered.
- [Error in the detach node process in Data Preserving Reprovisioning process](#)
When running the `odaupgradeutil detach-node` command, an error may be encountered.

- [Detaching of databases with additionally configured services not supported by odaupgradeutil](#)
When running `odaupgradeutil` in the Data Preserving Reprovisioning process, if there are additionally configured services, then databases cannot be detached.
- [Error in restore node process in Data Preserving Reprovisioning](#)
In the Data Preserving Reprovisioning process, during node restore, an error may be encountered.
- [Error in restore node process in Data Preserving Reprovisioning](#)
In the Data Preserving Reprovisioning process, during node restore, an error may be encountered.
- [Error messages in log entries in Data Preserving Reprovisioning](#)
In the Data Preserving Reprovisioning process, during node restore, the log entries may display error messages though the overall status of the job is displayed as `SUCCESS`.
- [Error in server patching](#)
When patching Oracle Database Appliance which already has STIG V1R2 deployed, an error may be encountered.
- [AHF error in prepatch report for the update-dbhome command](#)
When you patch server to Oracle Database Appliance release 19.17, the `odacli update-dbhome` command may fail.
- [Error in patching prechecks report](#)
The patching prechecks report may display an error.
- [Error message displayed even when patching Oracle Database Appliance is successful](#)
Although patching of Oracle Database Appliance was successful, an error message may be displayed.
- [Server status not set to Normal when patching](#)
When patching Oracle Database Appliance, an error is encountered.
- [Error when patching to 12.1.0.2.190716 Bundle Patch](#)
When patching Oracle Database release 12.1.0.2 to Oracle Database 12.1.0.2.190716 Bundle Patch, an error is encountered.
- [Patching of M.2 drives not supported](#)
Patching of M.2 drives (local disks SSDSCKJB48 and SSDSCKJB480G7) is not supported.

Error in updating the operating system when patching the server

When patching the server to Oracle Database Appliance release 19.15, the operating system may not be updated.

The following error message is displayed:

```
DCS-10001:Internal error encountered: Failed to patch OS.
```

Run the following command:

```
rpm -q kernel-uek
```

If the output of this command displays multiple RPM names, then perform the workaround.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Remove the following RPMs:

```
# yum remove kernel-uek-4.14.35-1902.11.3.1.el7uek.x86_64
# yum remove kernel-uek-4.14.35-1902.301.1.el7uek.x86_64
```

This issue is tracked with Oracle bug 34154435.

Error in server patching during DB system patching

When patching the server during DB system patching to Oracle Database Appliance release 19.15, an error may be encountered.

The following error message is displayed:

```
ORA-12559: Message 12559 not found; product=RDBMS; facility=ORA
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Retry server patching on the DB system.

This issue is tracked with Oracle bug 34153158.

Component version not updated after patching

After patching the server to Oracle Database Appliance release 19.16, the `odacli describe-component` command does not display the correct Intel Model 0x1528 Ethernet Controller version, if the current version is 8000047B or 8000047C.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Manually update the Ethernet controllers to 00005DD or 800005DE using the `fwupdate` command.

This issue is tracked with Oracle bug 34402352.

Error in the precheck report when patching database

In the precheck report for applying data patch, an error may be encountered.

Problem Description

When running the `odacli create-prepatchreport` command for data patch on Oracle RAC One Node database, there is an error in the Evaluate DB data patching `Opatch` check for the node where the database does not run. The check runs as expected for the node where the database is running.

Failure Message

When the `odacli describe-prepatchreport -i jobid` command is run, the following error message is displayed:

```
Internal error encountered
```

When the `odacli describe-job -i jobid` command is run, the following error message is displayed:

```
DCS-10001:Internal error encountered: String index out of range: -1
```

Command Details

```
# odacli create-prepatchreport -dbid databaseId -dp
```

Hardware Models

All Oracle Database Appliance hardware models with Oracle RAC One Node Database

Workaround

Use the `odacli describe-prepatchreport -i jobid` command instead of the `odacli describe-job -i jobid` command to view the list of patches to be applied. When this failure occurs for Oracle RAC One Node database, use the `-f` option with the `odacli update-database` command to run the apply datapatch operation successfully.

Bug Number

This issue is tracked with Oracle bug 34770585.

Error in patching database using the odacli update-database command

After patching a database with the `odacli update-database` command, an error may be encountered.

Problem Description

When you revert an Oracle Database 19c database from a later release to Oracle Database release 19.15, 19.14, or 19.13, using the `odacli update-database` command with the `--revert` option, the database may fail to start.

Failure Message

The following error message is displayed:

```
ORA-46372: audit file 'oracle_home/audit/node_name/ora_audit_xy.bin' not
found
```

Command Details

```
# odacli update-database --revert
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Manually apply the one-off patch for bug 33809642, and then revert the database to Oracle Database release 19.15, 19.14, or 19.13.

Bug Number

This issue is tracked with Oracle bug 34736864.

Error in upgrading database home

When patching a database home to Oracle Database Appliance release 19.17, an error may be encountered.

Problem Description

When running the pre-checks to update the database homes, the ORAchK section of the prepatch report may display an error. There may be an error in a check in the Cluster Verification Utility.

Failure Message

When running the `odacli describe-prepatchreport -i jobid` command, the following error message is displayed:

<u>ORACHK</u>		
Running orachk	Failed	Orachk validation failed: .
Validate command execution	Success	Validated command execution

Clock Synchronization	Failed	Clock Synchronization check failed
-----------------------	--------	------------------------------------

Command Details

```
# odacli create-prepatchreport -d -i -v release
# odacli describe-prepatchreport -i report_ID
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Run the `odacli create-prepatchreport` command and then use the `-f` option to patch the component (server, database home, or database).

Bug Number

This issue is tracked with Oracle bug 33964339.

Error in the detach node process in Data Preserving Reprovisioning process

When running the `odaupgradeutil detach-node` command, an error may be encountered.

Problem Description

If your Oracle Database Appliance high-availability deployment has an Oracle RAC One Database release 11g, then during the detach operation, the password file may not be present on the node where database runs. This may occur if the database was created on the target node and was relocated to the other node before the detach node operation is run. Check `odaupgradeutil_saveconf_date_time.log` to confirm the issue and search for the error message "ERROR - passwd file not found".

Failure Message

The following error message is displayed:

```
Exception occurred: DB discovery failed, Cause: Not all components
discovered for database 'db_name'
```

Command Details

```
# odaupgradeutil detach-node
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Copy the password file from the remote node to the local node.
2. Retry the command `odaupgradeutil detach-node`.

Bug Number

This issue is tracked with Oracle bug 34648294.

Detaching of databases with additionally configured services not supported by `odaupgradeutil`

When running `odaupgradeutil` in the Data Preserving Reprovisioning process, if there are additionally configured services, then databases cannot be detached.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Additional services must be deleted to complete the detach operation by running the command `srvctl remove service`. If these services are required, then before removing the service, the metadata must be captured manually and then the services must be recreated on the system running Oracle Database Appliance release 19.15 using the `srvctl` command from the appropriate database home.

This issue is tracked with Oracle bug 33593287.

Error in restore node process in Data Preserving Reprovisioning

In the Data Preserving Reprovisioning process, during node restore, an error may be encountered.

If incorrect VIP names or VIP IP addresses are configured, then the detach completes successfully but the command `odacli restore-node -g` displays a validation error. This is because the earlier releases did not validate VIP names or VIP IP addresses before provisioning.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

Manually edit the file `/opt/oracle/oak/restore/metadata/provisionInstance.json` with the correct VIP names or VIP IP addresses. Retry the command `odacli restore-node -g`. For fixing VIP names or VIP IP addresses, `nslookup` can be used to query hostnames and IP addresses.

This issue is tracked with Oracle bug 34140344.

Error in restore node process in Data Preserving Reprovisioning

In the Data Preserving Reprovisioning process, during node restore, an error may be encountered.

The following error message may be displayed:

```
DCS-10045: groupNames are not unique.
```

This error occurs if the source Oracle Database Appliance is an OAK version. This is because on the DCS stack, the same operating system group is not allowed to be assigned two or more roles.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

Manually edit the file `/opt/oracle/oak/restore/metadata/provisionInstance.json` with unique group names for each role. Retry the command `odacli restore-node -g`.

This issue is tracked with Oracle bug 34042493.

Error messages in log entries in Data Preserving Reprovisioning

In the Data Preserving Reprovisioning process, during node restore, the log entries may display error messages though the overall status of the job is displayed as `SUCCESS`.

For Oracle Database Appliance running the DCS stack starting with Oracle Database Appliance release 12.2.1.4.0, the command `odacli restore-node -d` performs a set of ignorable tasks. Failure of these tasks does not affect the status of the overall job. The output of the command `odacli describe-job` may report such failures. These tasks are:

```
Restore of user created networks
Restore of object stores
Restore of NFS backup locations
Restore of backupconfigs
Relinking of backupconfigs to databases
Restore of backup reports
```

In the sample output above, even if these tasks fail, the overall status of the job is marked as `SUCCESS`.

Hardware Models

All Oracle Database Appliance hardware models being upgraded using the Data Preserving Reprovisioning process

Workaround

Investigate the failure using the `dc-agent.log`, fix the errors, and then retry the command `odacli restore-node -d`.

This issue is tracked with Oracle bug 34512193.

Error in server patching

When patching Oracle Database Appliance which already has STIG V1R2 deployed, an error may be encountered.

On an Oracle Database Appliance deployment with release earlier than 19.17, if the Security Technical Implementation Guidelines (STIG) V1R2 is already deployed, then when you patch to 19.17 or earlier, and run the command `odacli update-server -f version`, an error may be displayed.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

The STIG V1R2 rule OL7-00-040420 tries to change the permission of the file `/etc/ssh/ssh_host_rsa_key` from '640' to '600' which causes the error. During patching, run the command `chmod 600 /etc/ssh/ssh_host_rsa_key` command on both nodes.

This issue is tracked with Oracle bug 33168598.

AHF error in prepatch report for the update-dbhome command

When you patch server to Oracle Database Appliance release 19.17, the `odacli update-dbhome` command may fail.

The following error message is displayed in the pre-patch report:

Verify the Alternate Archive Destination is Configured to archive	Failed	AHF-4940: One or more log archive destination and alternate log
Prevent Database Hangs recommended		destination settings are not as

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Run the `odacli update-dbhome` command with the `-f` option.

```
/opt/oracle/dcs/bin/odacli update-dbhome --dbhomeid 7c67c5b4-
f585-4ba9-865f-c719c63c0a6e -v 19.17.0.0.0 -f
```

This issue is tracked with Oracle bug 33144170.

Error in patching prechecks report

The patching prechecks report may display an error.

The following error message may be displayed:

```
Failure in the pre-patch report caused by "AHF-5190: operating system  
boot device order is not configured as recommended"
```

Hardware Models

Oracle Database Appliance X-7 hardware models

Workaround

Run the `odacli update-server` or `odacli update-dbhome` command with the `-f` option.

This issue is tracked with Oracle bug 33631256.

Error message displayed even when patching Oracle Database Appliance is successful

Although patching of Oracle Database Appliance was successful, an error message may be displayed.

The following error is seen when running the `odacli update-dcscomponents` command:

```
# time odacli update-dcscomponents -v 19.17.0.0.0  
^[[ADCS-10008:Failed to update DCScomponents: 19.17.0.0.0  
Internal error while patching the DCS components :  
DCS-10231:Cannot proceed. Pre-checks for update-dcscomponents failed.  
Refer  
to /opt/oracle/dcs/log/-dcscomponentsPreCheckReport.log on node 1 for  
details.
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

This is a timing issue with setting up the SSH equivalence.

Run the `odacli update-dcscomponents` command again and the operation completes successfully.

This issue is tracked with Oracle bug 32553519.

Server status not set to Normal when patching

When patching Oracle Database Appliance, an error is encountered.

When patching the appliance, the `odacli update-server` command fails with the following error:

```
DCS-10001:Internal error encountered: Server upgrade state is not NORMAL  
node_name
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

1. Run the command:

```
Grid_home/bin/cluvfy stage -post crsinst -collect cluster -gi_upgrade -n  
all
```

2. Ignore the following two warnings:

```
Verifying OCR Integrity ...WARNING  
PRVG-6017 : OCR backup is located in the same disk group "+DATA" as OCR.
```

```
Verifying Single Client Access Name (SCAN) ...WARNING  
RVG-11368 : A SCAN is recommended to resolve to "3" or more IP
```

3. Run the command again till the output displays only the two warnings above. The status of Oracle Custerware status should be `Normal` again.
4. You can verify the status with the command:

```
Grid_home/bin/crsctl query crs activeversion -f
```

This issue is tracked with Oracle bug 30099090.

Error when patching to 12.1.0.2.190716 Bundle Patch

When patching Oracle Database release 12.1.0.2 to Oracle Database 12.1.0.2.190716 Bundle Patch, an error is encountered.

The ODACLI job displays the following error:

```
DCS-10001:Internal error encountered: Failed to run SQL script: datapatch  
script.
```

The data patch log contains the entry "Prereq check failed, exiting without installing any patches.".

Hardware Models

All Oracle Database Appliance hardware models bare metal deployments

Workaround

Install the same patch again.

This issue is tracked with Oracle bugs 30026438 and 30155710.

Patching of M.2 drives not supported

Patching of M.2 drives (local disks SSDSCKJB48 and SSDSCKJB480G7) is not supported.

These drives are displayed when you run the `odacli describe-component` command. Patching of neither of the two known versions 0112 and 0121 of the M.2 disk is supported.

Hardware Models

Oracle Database Appliance bare metal deployments

Workaround

None

This issue is tracked with Oracle bug 30249232.

Known Issues When Deploying Oracle Database Appliance

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

- [ODACLI command output not included in system report](#)
On Oracle Database Appliance which has multi-user access enabled, ODACLI command output is not included in the system report.
- [Error in creating a DB system](#)
When creating a DB system, an error may be encountered.
- [Error in clone database operation](#)
When cloning a single-instance or Oracle RAC One Node database from a remote node on an Oracle Database Appliance high-availability system, an error may be encountered.
- [Error in modifying the database](#)
The modify operation is unable to reset database parameter.
- [Error in creating two DB systems](#)
When creating two DB systems concurrently in two different Oracle ASM disk groups, an error is encountered.
- [Error in creating DB system](#)
When creating a DB system on Oracle Database Appliance, an error may be encountered.

- [Error in adding JBOD](#)
When you add a second JBOD to your Oracle Database Appliance deployment on which a DB system is running, an error is encountered.
- [Error in provisioning appliance after running cleanup.pl](#)
Errors encountered in provisioning appliance after running `cleanup.pl`.
- [Error when upgrading database from 11.2.0.4 to 12.1 or 12.2](#)
When upgrading databases from 11.2.0.4 to 12.1 or 12.2, an error is encountered.
- [Error when upgrading 12.1 single-instance database](#)
When upgrading 12.1 single-instance database, a job failure error is encountered.
- [Error encountered after running cleanup.pl](#)
Errors encountered in running `odacli` commands after running `cleanup.pl`.
- [Errors in clone database operation](#)
Clone database operation fails due to errors.
- [Clone database operation fails](#)
For Oracle Database release 12.1 databases, the database clone creation may fail because the default compatible version from Oracle binaries was set to 12.0.0.0

ODACLI command output not included in system report

On Oracle Database Appliance which has multi-user access enabled, ODACLI command output is not included in the system report.

The system report generated by Oracle Trace File Analyzer Collector does not have the output for ODACLI commands as the ODACLI commands do not run in the absence of required authentication.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Generate the output of the ODACLI commands separately and then provide the output to Oracle Support, if needed.

This issue is tracked with Oracle bug 33786157.

Error in creating a DB system

When creating a DB system, an error may be encountered.

Problem Description

When creating a DB system, the following errors may be encountered:

- The `odacli create-dbsystem` job may be stuck in the `running` status for a long time.
- Other DB system or application VM lifecycle operations such as create, start, or stop VM jobs may be stuck in the `running` status for a long time.
- Any `virsh` command such as `virsh list` command process may not respond.

- The command `ps -ef | grep libvirtd` displays that there are two `libvirtd` processes. For example:

```
# ps -ef |grep libvirtd
root      5369      1  0 05:27 ?        00:00:03 /usr/sbin/libvirtd
root      27496  5369  0 05:29 ?        00:00:00 /usr/sbin/libvirtd
<<<
```

The second `libvirtd` process (pid 27496) is stuck and causes the job hang.

Command Details

```
# odacli create-dbsystem
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Delete the second `libvirtd`, that is, the one spawned by the first `libvirtd`, for example, pid: 27496 in the above example.

Bug Number

This issue is tracked with Oracle bug 34715675.

Error in clone database operation

When cloning a single-instance or Oracle RAC One Node database from a remote node on an Oracle Database Appliance high-availability system, an error may be encountered.

Problem Description

The DCS process cannot determine the `open_mode` for example, read-write, read-only mode, of a Database while running the clone database operation from a remote node. This issue does not occur on Oracle RAC database because there exists a local database instance on each node.

The following errors may be encountered:

```
DCS-10001:Internal error encountered: In method: isReadOnlyDb.Unable
to check
if database is in READ only mode.Error:alter session set
nls_language='AMERICAN'
*
ERROR at line 1:
ORA-01034: ORACLE not available
Process ID: 0
Session ID: 0 Serial number: 0

select open_mode from v$database
*
```

```
ERROR at line 1:  
ORA-01034: ORACLE not available  
Process ID: 0  
Session ID: 0 Serial number: 0
```

Command Details

```
# odacli clone-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

For single-instance databases, run the `odacli clone-database` command from the node where the database runs.

For Oracle RAC One databases created on `node0`, run the `odacli clone-database` command from the local node, that is, `node0`.

Bug Number

This issue is tracked with Oracle bug 34807735.

Error in modifying the database

The modify operation is unable to reset database parameter.

This is because the database running on the node displayed in the `srvctl` and the metadata are not the same.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Stop the database:

```
srvctl stop database -d dbuniquename
```

2. Start the database:

```
srvctl start database -d dbuniquename -node targetNodeNumber
```

This issue is tracked with Oracle bug 34292498.

Error in creating two DB systems

When creating two DB systems concurrently in two different Oracle ASM disk groups, an error is encountered.

When attempting to start the DB systems, the following error message is displayed:

```
CRS-2672: Attempting to start 'vm_name.kvm' on 'oda_server'  
CRS-5017: The resource action "vm_name.kvm start" encountered the  
following  
error:  
CRS-29200: The libvirt virtualization library encountered the following  
error:  
Timed out during operation: cannot acquire state change lock (held by  
monitor=remoteDispatchDomainCreate)  
. For details refer to "(:CLSN00107:)" in  
"/u01/app/grid/diag/crs/<oda_server>/crs/trace/  
crsd_orarootagent_root.trc".  
CRS-2674: Start of 'vm_name.kvm' on 'oda_server' failed  
CRS-2679: Attempting to clean 'vm_name.kvm' on 'oda_server'  
CRS-2681: Clean of 'vm_name.kvm' on 'oda_server' succeeded  
CRS-4000: Command Start failed, or completed with errors.
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Do not create two DB systems concurrently. Instead, complete the creation of one DB system and then create the other.

This issue is tracked with Oracle bug 33275630.

Error in creating DB system

When creating a DB system on Oracle Database Appliance, an error may be encountered.

When running the `odacli create-dbsystem` command, the following error message may be displayed:

```
DCS-10001:Internal error encountered: ASM network is not online in all  
nodes
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Manually bring the offline resources online:

```
crsctl start res -all
```

2. Run the `odacli create-dbsystem` command.

This issue is tracked with Oracle bug 33784937.

Error in adding JBOD

When you add a second JBOD to your Oracle Database Appliance deployment on which a DB system is running, an error is encountered.

The following error message is displayed:

```
ORA-15333: disk is not visible on client instance
```

Hardware Models

All Oracle Database Appliance hardware models bare metal and dbsystem

Workaround

Shut down dbsystem before adding the second JBOD.

```
systemctl restart initdcsagent
```

This issue is tracked with Oracle bug 32586762.

Error in provisioning appliance after running cleanup.pl

Errors encountered in provisioning appliance after running `cleanup.pl`.

After running `cleanup.pl`, provisioning the appliance fails because of missing Oracle Grid Infrastructure image (IMGGI191100). The following error message is displayed:

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

Hardware Models

All Oracle Database Appliance hardware models for bare metal deployments

Workaround

After running `cleanup.pl`, and before provisioning the appliance, update the repository as follows:

```
# odacli update-repository -f /**gi**
```

This issue is tracked with Oracle bug 32707387.

Error when upgrading database from 11.2.0.4 to 12.1 or 12.2

When upgrading databases from 11.2.0.4 to 12.1 or 12.2, an error is encountered.

Database upgrade can cause the following warning in the `UpgradeResults.html` file, when upgrading database from 11.2.0.4 to 12.1 or 12.2:

```
Database is using a newer time zone file version than the Oracle home
```

Hardware Models

All Oracle Database Appliance bare metal deployments

Workaround

1. Refer to the *Database Upgrade Guide* for manual steps for fixing the time zone.
2. After manually completing the database upgrade, run the following command to update DCS metadata:

```
/opt/oracle/dcs/bin/odacli update-registry update-registry -n db -f
```

This issue is tracked with Oracle bug 31125985.

Error when upgrading 12.1 single-instance database

When upgrading 12.1 single-instance database, a job failure error is encountered.

Hardware Models

All Oracle Database Appliance hardware models bare metal deployments

Workaround

Use the following workaround:

1. Before upgrading the 12.1 single-instance database, run the following PL/SQL command to change the `local_listener` to an empty string:

```
ALTER SYSTEM SET LOCAL_LISTENER='';
```

2. After upgrading the 12.1 single-instance database successfully, run the following PL/SQL command to change the `local_listener` to the desired value:

```
ALTER SYSTEM SET LOCAL_LISTENER='-oracle-none-';
```

This issue is tracked with Oracle bugs 31202775 and 31214657.

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.

Errors in clone database operation

Clone database operation fails due to errors.

If the source database is single-instance or Oracle RAC One Node, or running on the remote node, the clone database operation fails, because the paths are not created correctly in the control file.

Clone database operation may also fail with errors if the source database creation time stamp is too close to the clone operation (at least within 60 minutes).

Hardware Models

All Oracle Database Appliance high-availability hardware models for bare metal deployments

Workaround

Create the clone database from the source database instance that is running on the same node from which the clone database creation is triggered.

For Oracle Database 12c and later, synchronize the source database before the clone operation, by running the command:

```
SQL> alter system checkpoint;
```

This issue is tracked with Oracle bugs 29002563, 29002004, 29001906, 29001855, 29001631, 28995153, 28986643, 30309971, and 30228362.

Clone database operation fails

For Oracle Database release 12.1 databases, the database clone creation may fail because the default compatible version from Oracle binaries was set to 12.0.0.0.0

Hardware Models

All Oracle Database Appliance high-availability hardware models for bare metal deployments

Workaround

Set the compatible value to that of the source database. Follow these steps:

1. Change the parameter value.

```
SQL> ALTER SYSTEM SET COMPATIBLE = '12.1.0.2.0' SCOPE=SPFILE;
```

2. Shut down the database.

```
SQL> SHUTDOWN IMMEDIATE
```

3. Start the database.

```
SQL> Startup
```

4. Verify the parameter for the new value.

```
SQL> SELECT name, value, description FROM v$parameter WHERE name  
='compatible';
```

This issue is tracked with Oracle bug 30309914.

Known Issues When Managing Oracle Database Appliance

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

- [Error in starting the kdump service](#)
When starting the kdump service, an error may be encountered.
- [Error in recovery of database](#)
When recovering an Oracle Database Enterprise Edition High Availability database from node 0, with target node as 1, an error may be encountered.
- [Error in patching standby database on Oracle Data Guard](#)
When patching the standby database on an Oracle Data Guard configuration with a multi-user access enabled Oracle Database Appliance deployment, an error may be encountered.
- [Error in restoring TDE-enabled database](#)
When restoring a TDE-enabled database, an error may be encountered.
- [Error in restoring database from NFS backup](#)
When restoring a database, an error may be encountered.

- [Error in recovering a database](#)
When recovering a database, an error may be encountered.
- [Error in configuring Oracle Data Guard](#)
When running the command `odacli configure-dataguard` on Oracle Database Appliance, an error may be encountered at the `upload password file to standby database` step.
- [Error in backup of database](#)
When backing up a database on Oracle Database Appliance, an error is encountered.
- [Error when running two irestore jobs](#)
When running two `irestore` jobs on an ObjectStoreSwift object on Oracle Database Appliance, then an error may be encountered.
- [Error in configuring Oracle Data Guard](#)
When running the command `odacli configure-dataguard` on Oracle Database Appliance, an error may be encountered.
- [OpenSSH command vulnerability](#)
OpenSSH command vulnerability issue detected in Qualys and Nessus scans.
- [Error in cleaning up a deployment](#)
When cleaning up a Oracle Database Appliance, an error is encountered.
- [Error due to autofill in BUI fields](#)
Since Browser User Interface (BUI) fields are autofilled, an error may be encountered.
- [Error in display of file log path](#)
File log paths are not displayed correctly on the console but all the logs that were generated for a job have actually logged the correct paths.
- [Error in configuring Oracle Data Guard](#)
When running the command `odacli configure-dataguard` on Oracle Database Appliance, an error may be encountered.
- [Error in reinstating on Oracle Data Guard](#)
When running the command `odacli reinstate-dataguard` on Oracle Database Appliance, an error is encountered.
- [Error in configuring Oracle Data Guard](#)
After upgrading the standby database from release 12.1 to 19.14, the following error message may be displayed at step `Enable redo transport and apply`.
- [Error in viewing Oracle Data Guard status](#)
When viewing Oracle Data Guard status on Oracle Database Appliance, an error is encountered.
- [Error in reinstate operation on Oracle Data Guard](#)
When running the command `odacli reinstate-dataguard` on Oracle Data Guard an error is encountered.
- [Error in running concurrent database or database home creation jobs](#)
When running concurrent database or database home creation jobs, an error is encountered.
- [Error in the enable apply process after upgrading databases](#)
When running the enable apply process after upgrading databases in an Oracle Data Guard deployment, an error is encountered.

- [Error in creating Oracle Data Guard status](#)
When configuring Oracle Active Data Guard on Oracle Database Appliance, an error is encountered.
- [Error in Reinstating Oracle Data Guard](#)
When reinstating Oracle Data Guard on Oracle Database Appliance, an error is encountered.
- [Failure in Reinstating Oracle Data Guard](#)
When reinstating Oracle Data Guard on Oracle Database Appliance, an error is encountered.
- [Error in updating Role after Oracle Data Guard operations](#)
When performing operations with Oracle Data Guard on Oracle Database Appliance, an error is encountered in updating the Role.
- [Inconsistency in ORAchk summary and details report page](#)
ORAchk report summary on the Browser User Interface may show different counts of Critical, Failed, and Warning issues than the report detail page.
- [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.
- [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.

Error in starting the kdump service

When starting the kdump service, an error may be encountered.

Failure Message

The following error message is displayed:

```
crashkernel reservation failed - memory is in use.
```

Command Details

```
# systemctl status kdump
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Modify `/etc/default/grub` and change `"crashkernel=512M@64M"` to `"crashkernel=512M"`.
2. Run `grub2-mkconfig`.

Bug Number

This issue is tracked with Oracle bug 34714285.

Error in recovery of database

When recovering an Oracle Database Enterprise Edition High Availability database from node 0, with target node as 1, an error may be encountered.

Failure Message

The following error message is displayed:

```
DCS-10001:Internal error encountered: null
```

Command Details

```
# odacli recover-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Retry the operation from the target node number of the database.

Bug Number

This issue is tracked with Oracle bug 34785410.

Error in patching standby database on Oracle Data Guard

When patching the standby database on an Oracle Data Guard configuration with a multi-user access enabled Oracle Database Appliance deployment, an error may be encountered.

Failure Message

The following error message is displayed:

```
DCS-10001:Internal error encountered: null
```

Command Details

```
# odacli update-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Before patching the standby database, manually change the ownership of the `tnsnames.ora` file under the destination database home by running the following command:

```
chown user:group name for groupRole oinstall
$DBHome/network/admin/tnsnames.ora
```

user is the owner of the destination database home, *group name for role oinstall* is the group name for the groupRole oinstall as defined in the provisioning `json` file. *\$DBHome* is the absolute path of the destination database home on the Oracle Database Appliance file system.

For example:

```
chown odaadmin:oinstall
/u01/app/odaorahome/odaadmin/product/19.0.0.0/dbhome_1/network/admin/
tnsnames.ora
```

Bug Number

This issue is tracked with Oracle bug 34745904.

Error in restoring TDE-enabled database

When restoring a TDE-enabled database, an error may be encountered.

Problem Description

Restoring a TDE-enabled database from Object Storage backup on the second node with target dbtype as RACONE may fail.

Failure Message

The following error message is displayed:

```
DCS-10001:Internal error encountered: Failed to create the empty
keystore. Please check if a keystore 'ewallet.p12' is already present
at: '/tmp/TempTdeCopy_5364306153598352314'. Please remove or rename it
if it does...
```

Command Details

```
# odacli irestore-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Retry the operation from node 0.

Bug Number

This issue is tracked with Oracle bug 34771856.

Error in restoring database from NFS backup

When restoring a database, an error may be encountered.

Problem Description

Restoring a database from NFS backup on the second node with target dbtype as RACONE may fail.

Failure Message

The following error message is displayed:

```
DCS-10001:Internal error encountered: Failed to run sql in method :  
runBCTDisableCommand.disable block change tracking :
```

Command Details

```
# odacli irestore-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Retry the operation from node 0.

Bug Number

This issue is tracked with Oracle bug 34771886.

Error in recovering a database

When recovering a database, an error may be encountered.

Problem Description

While running database recovery for an upgraded database, an error may be encountered when recovering the control file of the database. The agent may fail to mount the database after recovering the control file.

Failure Message

The following error message is displayed:

```
DCS-10001:Internal error encountered: Failed to run sql in method :  
mountDatabaseAndRestoreSpAndControlFileOnErr.Failed to restore controlfile
```

Task Level Failure Message

The following error message is displayed:

```
# odacli describe-job -i
4b038885-603e-4f1d-b8dc-5a48a1905357
```

Job details

```
-----
ID: 4b038885-603e-4f1d-b8dc-5a48a1905357
Description: Create recovery-latest for db : odacn
Status: Failure
Created: November 5, 2022 6:12:42 AM PDT
Message: DCS-10001:Internal error encountered: Failed
to run
sql in method : mountDatabaseAndRestoreSpAndControlFileOnErr.Failed to
restore controlfile
```

Task Name	Node Name	
Start Time		Status
End Time		

task:TaskLockWrapper_22989	n1	November
5, 2022 6:12:43 AM PDT	November 5, 2022 6:16:08 AM PDT	
Failure		
task:TaskSequential_22990	n1	November
5, 2022 6:12:43 AM PDT	November 5, 2022 6:16:08 AM PDT	
Failure		
Database recovery validation	n1	November
5, 2022 6:12:44 AM PDT	November 5, 2022 6:16:08 AM PDT	Failure

Command Details

```
# odacli recover-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Delete the database pfile present at `dbhome/dbs/initdbname.ora` location and then retry the database recovery.

```
$ rm -f
/u01/app/odaorahome/oracle/product/19.0.0.0/dbhome_1/dbs/initsidb.ora
```

Bug Number

This issue is tracked with Oracle bug 34527231.

Error in configuring Oracle Data Guard

When running the command `odacli configure-dataguard` on Oracle Database Appliance, an error may be encountered at the upload password file to standby database step.

When running the command `odacli configure-dataguard` on Oracle Database Appliance, the following error message may be displayed at `CONFIGUREDG - DCS-10001: UNABLE TO CONFIGURE BROKER DGMGRL> SHOW CONFIGURATION;`:

```
ORA-16783: cannot resolve gap for database tgtpodpgtb
```

Hardware Models

Oracle Database Appliance hardware models with DB system and database version earlier than Oracle Database Appliance release 19.15

Workaround

Manually copy the password file from primary to standby system and retry the command `odacli configure-dataguard` with the `--skip-password-copy` option.

1. On the primary system, locate the password file:

```
srvctl config database -d dbUniqueName | grep -i password
```

If the output is the Oracle ASM directory, then copy the password from the Oracle ASM directory to the local directory.

```
su - grid
asmcmd
ASMCMD> pwcopy +DATA/tiger2/PASSWORD/orapwtiger /tmp/orapwtiger
```

If the output is empty, then check the directory at `/dbHome/dbs/orapwdbName`. For example, the `orapwd` file can be at `/u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger`

2. Copy the password file to the standby system. Back up the original password file.

```
/u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger
/u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger.ori
scp
root@primaryHost:/u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger
/u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger
```

3. Change the standby `orapwd` file permission.

```
chown -R oracle /u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger
chgrp oinstall /u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/orapwtiger
```

4. Check the password file location on the standby system and copy to the Oracle ASM directory, if necessary.

```
srvctl config database -d tiger2 | grep -i password
Password file: +DATA/tiger2/PASSWORD/orapwtiger
```

In this example, copy the password from the local directory to the Oracle ASM directory.

```
su - grid
asmcmd
ASMCMD> pwcopy /u01/app/oracle/product/19.0.0.0/dbhome_1/dbs/
orapwtiger
+DATA/tiger2/PASSWORD/orapwtiger
```

This issue is tracked with Oracle bug 34484209.

Error in backup of database

When backing up a database on Oracle Database Appliance, an error is encountered.

After successful failover, running the command `odacli create-backup` on new primary database fails with the following message:

```
DCS-10001:Internal error encountered: Unable to get the
rman command status commandid:xxx
output:STATUS
-----
[COMPLETED WITH WARNINGS] error:..
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. On the new primary database, connect to RMAN as `oracle` and edit the archive log deletion policy.

```
rman target /
RMAN> CONFIGURE ARCHIVELOG DELETION POLICY TO BACKED UP 1 TIMES TO
'SBT_TAPE';
```

2. On the new primary database, as the `root` user, take a backup:

```
odacli create-backup -in db_name -bt backup_type
```

This issue is tracked with Oracle bug 33181168.

Error when running two irestore jobs

When running two irestore jobs on an ObjectStoreSwift object on Oracle Database Appliance, then an error may be encountered.

The first irestore job may fail with the following error message:

```
DCS-10001:Internal error encountered: Failed to  
run RMAN command. Please refer log at location : hostname1:  
/u01/app/odaorabase/odaadmin/diag/rdbms/idb0001/idb0001_1/nodenam1/rman/b  
kup/rman/2022-06-20/rman_2022-06-20_18-23-58.0337.log.
```

The RMAN log displays the following:

```
ORA-19511: non RMAN, but media manager or vendor specific failure, error  
text: KBHS-01013: specified OPC_WALLET alias alias_opc not found in wallet
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

If you want to use the same ObjectStoreSwift object for both irestore database jobs, then start the second irestore job after the completion of the first irestore job.

This issue is tracked with Oracle bug 34300624.

Error in configuring Oracle Data Guard

When running the command `odacli configure-dataguard` on Oracle Database Appliance, an error may be encountered.

When running the command `odacli configure-dataguard` on Oracle Database Appliance, the following error message may be displayed at `CONFIGUREDG - DCS-10001: UNABLE TO CONFIGURE BROKER DGMGRL> SHOW CONFIGURATION;`:

```
ORA-16783: cannot resolve gap for database tgtpodpgtb
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps on the machine with the new primary database:

1. Disable the scheduled auto backup of primary database with the command:

```
odacli update-schedule
```

2. Restore archive log of the primary database.

```
odacli restore-archivelog
```

3. Configure Oracle Data Guard with the command `odacli configure-dataguard`.

This issue is tracked with Oracle bug 34008520.

OpenSSH command vulnerability

OpenSSH command vulnerability issue detected in Qualys and Nessus scans.

Qualys and Nessus both report a medium severity issue `OPENSSSH COMMAND INJECTION VULNERABILITY`. Refer to CVE-2020-15778 for details.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

None.

This issue is tracked with Oracle bug 33217970.

Error in cleaning up a deployment

When cleaning up a Oracle Database Appliance, an error is encountered.

During cleanup, shutdown of Clusterware fails because the NFS export service uses Oracle ACFS-based clones repository.

Hardware Models

All Oracle Database Appliance hardware models with DB systems

Workaround

Follow these steps:

1. Stop the NFS service on both nodes:

```
service nfs stop
```

2. Clean up the bare metal system. See the *Oracle Database Appliance Deployment and User's Guide* for your hardware model for the steps.

This issue is tracked with Oracle bug 33289742.

Error due to autofill in BUI fields

Since Browser User Interface (BUI) fields are autofilled, an error may be encountered.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

None.

This issue is tracked with Oracle bug 33278653.

Error in display of file log path

File log paths are not displayed correctly on the console but all the logs that were generated for a job have actually logged the correct paths.

Hardware Models

All Oracle Database Appliance hardware models with virtualized platform

Workaround

None.

This issue is tracked with Oracle bug 33580574.

Error in configuring Oracle Data Guard

When running the command `odacli configure-dataguard` on Oracle Database Appliance, an error may be encountered.

When running the command `odacli configure-dataguard` on Oracle Database Appliance, the following error message may be displayed at step `Restore missing archivelog (Primary site)`:

```
DCS-10114:Failed to acquire exclusive access
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Before running the command `odacli configure-dataguard`, disable auto-backup schedules for the primary database and verify that the existing backup jobs are completed.

- a. Check the database backup schedule for the primary database:

```
odacli list-schedules
```

- b. Disable the backup schedules for database and archive logs of the primary database:

```
odacli update-schedule -i schedule_id -d
```

2. Run the command `odacli configure-dataguard`.

3. After the command `odacli configure-dataguard` completes successfully, reenable auto backup for the primary database, if desired.

```
odacli update-schedule -i schedule_id -e
```

This issue is tracked with Oracle bug 33724368.

Error in reinstating on Oracle Data Guard

When running the command `odacli reinstate-dataguard` on Oracle Database Appliance, an error is encountered.

The following error message is displayed:

```
DCS-10001:Internal error encountered: Unable to reinstate Dg.
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Manually flashback old primary database.
Run the following commands:

1. On the new primary machine, get the `standby_became_primary_scn`:

```
SQL> select standby_became_primary_scn from v$database;
STANDBY_BECAME_PRIMARY_SCN
-----
4370820
```

2. On the old primary database, as `oracle` user, run the following.

```
rman target /
RMAN> set decryption identified by 'password'
RMAN> FLASHBACK DATABASE TO SCN STANDBY_BECAME_PRIMARY_SCN;
```

3. On the new primary database, run the `odacli reinstate-dataguard` command.

This issue is tracked with Oracle bug 33190261.

Error in configuring Oracle Data Guard

After upgrading the standby database from release 12.1 to 19.14, the following error message may be displayed at step `Enable redo transport and apply`.

```
Warning: ORA-16629: database reports a different protection level from
the protection mode standbydb - Physical standby database (disabled)
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Enable the standby database again by running the following DGMGRL command:

```
DGMGRL> Enable database tgtptdcnvo  
Enabled.
```

This issue is tracked with Oracle bug 33749492.

Error in viewing Oracle Data Guard status

When viewing Oracle Data Guard status on Oracle Database Appliance, an error is encountered.

Oracle Data Guard status is not shown on the remote node of Oracle Database Appliance high-availability systems causing Oracle Data Guard switchover, failover, and reinstate jobs to fail at the task `Check if DataGuard config is updated`. Oracle Data Guard operations, though, are successful.

Hardware Models

All Oracle Database Appliance high-availability systems

Workaround

Use DGMGRL to verify Oracle Data Guard status.

This issue is tracked with Oracle bug 33411769.

Error in reinstate operation on Oracle Data Guard

When running the command `odacli reinstate-dataguard` on Oracle Data Guard an error is encountered.

Following are the errors reported in `dcs-agent.log`:

```
DCS-10001:Internal error encountered: Unable to reinstate Dg." and can  
further find this error "ORA-12514: TNS:listener does not currently know of  
service requested
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Ensure that the database you are reinstating is started in MOUNT mode.

To start the database in MOUNT mode, run this command:

```
srvctl start database -d db-unique-name -o mount
```

After the command completes successfully, run the command `odacli reinstate-dataguard job`. If the database is already in MOUNT mode, this can be a temporary error. Check the

Data Guard status again a few minutes later with `odacli describe-dataguardstatus` or `odacli list-dataguardstatus`, or check with `DGMGRL> SHOW CONFIGURATION;` to see if the reinstatement is successful.

This issue is tracked with Oracle bug 32367676.

Error in running concurrent database or database home creation jobs

When running concurrent database or database home creation jobs, an error is encountered.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Do not run concurrent database or database home creation job.
This issue is tracked with Oracle bug 32376885.

Error in the enable apply process after upgrading databases

When running the enable apply process after upgrading databases in an Oracle Data Guard deployment, an error is encountered.

The following error message is displayed:

```
Error: ORA-16664: unable to receive the result from a member
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Restart standby database in upgrade mode:

```
srvctl stop database -d <db_unique_name>  
Run PL/SQL command: STARTUP UPGRADE;
```

2. Continue the enable apply process and wait for log apply process to refresh.
3. After some time, check the Data Guard status with the DGMGRL command:

```
SHOW CONFIGURATION;
```

This issue is tracked with Oracle bug 32864100.

Error in creating Oracle Data Guard status

When configuring Oracle Active Data Guard on Oracle Database Appliance, an error is encountered.

When configuring Oracle Data Guard, the `odacli configure-dataguard` command fails at step `NewDgconfig` with the following error on the standby system:

```
ORA-16665: TIME OUT WAITING FOR THE RESULT FROM A MEMBER
```

Verify the status of the job with the `odacli list-jobs` command.

Hardware Models

All Oracle Database Appliance hardware models with Oracle Data Guard configuration

Workaround

Follow these steps:

1. On the standby system, run the following:

```
export DEMODE=true;
odacli create-dataguardstatus -i dbid -n dataguardstatus_id_on_primary -r
configdg.json
export DEMODE=false;
configdg.json example
```

Example `configdg.json` file for a single-node system:

```
{
  "name": "test1_test7",
  "protectionMode": "MAX_PERFORMANCE",
  "replicationGroups": [
    {
      "sourceEndpoints": [
        {
          "endpointType": "PRIMARY",
          "hostName": "test_domain1",
          "listenerPort": 1521,
          "databaseUniqueName": "test1",
          "serviceName": "test",
          "sysPassword": "****",
          "ipAddress": "test_IPaddress"
        }
      ],
      "targetEndpoints": [
        {
          "endpointType": "STANDBY",
          "hostName": "test_domain2",
          "listenerPort": 1521,
          "databaseUniqueName": "test7",
          "serviceName": "test",
          "sysPassword": "****",
          "ipAddress": "test_IPaddress"
        }
      ]
    }
  ]
}
```

```
        "ipAddress": "test_IPaddress3"
      },
    ],
    "transportType": "ASYNC"
  }
]
```

This issue is tracked with Oracle bug 32719173.

Error in Reinstating Oracle Data Guard

When reinstating Oracle Data Guard on Oracle Database Appliance, an error is encountered.

The `odacli reinstate-dataguard` command fails with the following error:

```
Unable to reinstate Dg. Reinstatement job was executed within 24hrs after failover job.
```

The `dcs-agent.log` file has the following error entry:

```
DGMGRL> Reinstating database "xxxx",
please wait...
Oracle Clusterware is restarting database "xxxx" ...
Connected to "xxxx"
Continuing to reinstate database "xxxx" ...
Error: ORA-16653: failed to reinstate database
```

Hardware Models

All Oracle Database Appliance hardware models with Oracle Data Guard configuration

Workaround

Follow these steps:

1. On the primary machine, get the `standby_became_primary_scn`:

```
SQL> select standby_became_primary_scn from v$database;
STANDBY_BECAME_PRIMARY_SCN
-----
3522449
```

2. On the old primary database, flashback to this SCN with RMAN with the backup encryption password:

```
RMAN> set decryption identified by 'rman_backup_password' ;
executing command: SET decryption
RMAN> FLASHBACK DATABASE TO SCN 3522449 ;
...
Finished flashback at 24-SEP-20
RMAN> exit
```

3. On the new primary machine, run the `odacli reinstate-dataguard` command.

This issue is tracked with Oracle bug 31884506.

Failure in Reinstating Oracle Data Guard

When reinstating Oracle Data Guard on Oracle Database Appliance, an error is encountered.

The `odacli reinstate-dataguard` command fails with the following error:

Message:

```
DCS-10001:Internal error encountered: Unable to reinstate Dg.
```

The `dcs-agent.log` file has the following error entry:

```
ORA-12514: TNS:listener does not currently know of service requested in  
connect descriptor
```

Hardware Models

All Oracle Database Appliance hardware models with Oracle Data Guard configuration

Workaround

Follow these steps:

1. Make sure the database you are reinstating is started in MOUNT mode. To start the database in MOUNT mode, run this command:

```
srvctl start database -d db-unique-name -o mount
```

2. After the above command runs successfully, run the `odacli reinstate-dataguard` command.

This issue is tracked with Oracle bug 32047967.

Error in updating Role after Oracle Data Guard operations

When performing operations with Oracle Data Guard on Oracle Database Appliance, an error is encountered in updating the Role.

The `dbRole` component described in the output of the `odacli describe-database` command is not updated after Oracle Data Guard switchover, failover, and reinstate operations on Oracle Database Appliance.

Hardware Models

All Oracle Database Appliance hardware models with Oracle Data Guard configuration

Workaround

Run `odacli update-registry -n db --force/-f` to update the database metadata. After the job completes, run the `odacli describe-database` command and verify that `dbRole` is updated.

This issue is tracked with Oracle bug 31378202.

Inconsistency in ORAchk summary and details report page

ORAchk report summary on the Browser User Interface may show different counts of Critical, Failed, and Warning issues than the report detail page.

Hardware Models

Oracle Database Appliance hardware models bare metal deployments

Workaround

Ignore counts of Critical, Failed, and Warning issues in the ORAchk report summary on the Browser User Interface. Check the report detail page.

This issue is tracked with Oracle bug 30676674.

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.

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.