

Oracle® Database Appliance

Release Notes



Release 19.24 for Linux x86-64

F99813-01

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

Oracle Database Appliance Release Notes, Release 19.24 for Linux x86-64

F99813-01

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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](#)
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Audience

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

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

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

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

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Related Documents

For more information about Oracle Database Appliance, go to <http://www.oracle.com/goto/oda/docs> and click the appropriate release.

For more information about using Oracle Database, go to <http://docs.oracle.com/database/> and select the database release from the menu.

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.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.
# prompt	The pound (#) prompt indicates a command that is run as the root user.

1

What's New in This Release

Oracle Database Appliance release 19.24 supports Oracle Database 19c functionality on Oracle Database Appliance hardware models.

New Features

This release supports Oracle Database Appliance models X10-HA, X10-L, X10-S, X9-2-HA, X9-2L, X9-2S, X8-2-HA, X8-2M, X8-2S, X7-2-HA, X7-2M, and X7-2S. You can create a bare metal deployment on Oracle Database Appliance or patch or upgrade your existing bare metal deployment to Oracle Database Appliance release 19.24. 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 19.24.

For Oracle Database 19c and Oracle Database 23ai 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:

- **Support for Oracle Database 23ai databases on Oracle Database Appliance DB Systems**

This release supports creation of databases of Oracle Database release 23ai on DB systems. Oracle Grid Infrastructure release 23ai and Oracle Database 23ai are installed. The version is specified in the DB system JSON payload, with the attribute `version` for `database`. When you provision DB system of release 23ai, then you cannot provision any other database versions, such as 19c, in the DB system at the same time. You can create, delete, modify the shape, and modify the networks for databases of version Oracle Database 23ai on Oracle Database Appliance DB systems in this release.

 **Note:**

You cannot upgrade Oracle Database 19c databases to Oracle Database 23ai on Oracle Database Appliance DB systems in this release.

 **Note:**

Oracle Database Appliance release 19.23 software supports 23.5.0.0.0 DB system image for July 2024 (23.5.0.24.07) database and Oracle Grid Infrastructure clones. Oracle Database Appliance release 19.24 supports an updated DB system image (23.5.0.1.0) with the **same** database and Oracle Grid Infrastructure clones. To view the DB system image version, log into the DB system and run the `odacli describe-dbsystem-image` command. Oracle recommends that after you patch your bare metal system to Oracle Database Appliance release 19.24, you delete the 23.5.0.0.0 DB system that you installed with Oracle Database Appliance release 19.23 software. You can then create the DB system with the DB system image (23.5.0.1.0) that is available with Oracle Database Appliance release 19.24 and deploy Oracle Database 23ai databases.

For details on the JSON file changes for creating Oracle Database 23ai, 21c and 19c databases on DB systems, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Provisioning and patching of Oracle Database Appliance bare metal deployments, KVM, and DB systems**

This release supports provisioning and patching of bare metal deployments, KVM, and DB systems with Oracle Database Appliance release 19.24 on X10-HA, X10-L, X10-S, X9-2-HA, X9-2L, X9-2S, X8-2-HA, X8-2M, X8-2S, X7-2-HA, X7-2M, and X7-2S.

See the chapter *Provisioning Oracle Database Appliance Bare Metal System* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Upgrading Oracle Database Appliance to Oracle Linux 8 on Oracle Database Appliance X9-2, X8-2, and X7-2 on Bare Metal Systems and DB Systems**

Starting with Oracle Database Appliance release 19.21, the operating system is Oracle Linux 8 for Oracle Database Appliance X9, X8, and X7 hardware models.

See the chapter *Upgrading Oracle Database Appliance to Release 19.23 Using Data Preserving Reprovisioning* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for Oracle Database 23ai, 21c, and 19c databases on Oracle Database Appliance DB Systems**

This release supports creation of databases of Oracle Database 23ai, 21c, and 19c databases on DB systems. The version is specified in the DB system JSON payload, with the attribute `version` for `database`. When you provision DB system of release 23ai, then you cannot provision any other database versions, such as 19c in the DB system at the same time.

For details on the JSON file changes for creating Oracle Database 23ai, 21c and 19c databases on DB systems, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for Modifying Oracle ASM Listener Port on Oracle Database Appliance**

Starting with Oracle Database Appliance release 19.24, you can customize Oracle ASM listener port number as a postinstallation task. All DB systems that you provision after changing the Oracle ASM listener port number use the new Oracle ASM port number. See the topic *Modifying Oracle ASM Listener Port After Deployment* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for Passwordless Multi-User Access on Oracle Database Appliance Bare Metal and DB Systems Using BUI**

This release supports passwordless multi-user access on bare metal and DB systems using BUI. With passwordless multi-user access, you are not prompted for any password when you use BUI or run ODACLI commands. You can use this feature in the case where you do not log into the appliance with your Oracle Database Appliance account credentials, but use a third-party utility to log in and connect to Oracle Database Appliance. Or, you can set up a one-time SSH connection to an Oracle Database Appliance configured with passwordless multi-user access. Passwordless multi-user access supports all capabilities of role separation that are available with multi-user access. For details on enabling passwordless multi-user access and for the JSON file changes, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **Support for Multiple Databases on Oracle Database Appliance DB Systems**

This release supports deployment of multiple databases on a DB system on Oracle Database Appliance using ODACLI commands and BUI. For details on enabling this feature and creating the DB system with multiple databases, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **ODACLI Command Enhancements**

There are changes to ODACLI command options in this release. Use the `--help` option with a command to view the supported options for the command in this release.

For more information, see the chapter *Oracle Database Appliance Command-Line Reference* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.

- **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 (April 2024 Oracle Database Release Update for bare metal systems are available in this release:

- 19.24.0.0.240716

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 and Oracle Database Update 23.5.0.24.07 for DB system are also available with this release.

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

See the chapter *Oracle Database Appliance Release 19.24 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 19.24 from the drop down list.

- **Oracle Database Appliance 19.24.0.0.0 Server Patch for Bare Metal Systems:** Use patch 36873445 to update your bare metal deployment to Oracle Database Appliance release 19.24. You must download the Server Patch, Oracle Grid Infrastructure clone file, and the Oracle Database clone file to update your deployment to release 19.24.
- **Oracle Database Appliance 19.24.0.0.0 GI Clone for ODA CLI/DCS Stack:** Use patch 30403673 to update your deployment to this Oracle Database Appliance release. 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 RDBMS Clone for ODA CLI/DCS Stack:** Use the Oracle Database 19.24.0.0.240716 Software Clone file to create 19.24.0.0.240716 Oracle Database homes. Patch 30403662 provides the database clone for this update. This patch is for all Oracle Database Appliance Hardware Models (bare metal systems).
- **Oracle Database Appliance 19.24.0.0.0 DB System Image Download for KVM:** Use the KVM Database System template to deploy KVM-based virtualization for Oracle Database Appliance release 19.24. Patch 32451228 provides the software for this update.
- **Oracle Database Appliance 23ai DB System Image Download for KVM:** Use the KVM Database System template to deploy KVM-based virtualization for DB system of version 23ai. Patch 36524660 provides the software for this update.
- **Oracle Database Appliance 23ai GI Clone for DB Systems:** Use patch 36524627 to perform an initial deployment of Oracle Database Appliance on DB Systems for creating Oracle Database 23ai databases. This patch is for Oracle Database Appliance hardware models with DB systems only.
- **Oracle Database Appliance 23ai Database Clone File for DB Systems:** Use the Oracle Database 23ai Software Clone file to create 23ai Oracle Database homes. Patch 36524642 provides the database clone for this update. This patch is for Oracle Database Appliance hardware models with DB systems only.
- **Oracle Database Appliance 19.24.0.0.0 OS ISO Image for all Platforms:** Use this patch to reimage the operating system for Oracle Database Appliance 19.24. Patch 30403643 provides the software 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.

Related Topics

- Using Passwordless Multi-User Access on Oracle Database Appliance

- Deploying Multiple Databases on DB Systems on Oracle Database Appliance
- Provisioning Oracle Database Appliance Bare Metal System
- Modifying Oracle ASM Listener Port After Deployment
- Patching Oracle Database Appliance X10
- Oracle Database Appliance Command-Line Interface
- Configuring and Using Oracle Auto Service Request (Oracle ASR)
- Troubleshooting Data Preserving Reprovisioning Upgrades
- Viewing Oracle Database Appliance Error Correlation Reports
- [Known Issues with Oracle Database Appliance in This Release](#)
The following are known issues deploying, updating, and managing Oracle Database Appliance in this release.
- FAQs on Data Preserving Reprovisioning

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 X10 Models](#)
The matrix displays the component versions available for Oracle Database Appliance for X10-S, X10-L, and X10-HA.
- [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 Oracle Database Appliance X10 Models

The matrix displays the component versions available for Oracle Database Appliance for X10-S, X10-L, and X10-HA.

Table 2-1 Component Versions for X10-HA, X10-L, and X10-S in Oracle Database Appliance Release 19.24

Component Name	X10-HA	X10-S and X10-L
External HBA Silverthorn EXT-B	23.00.01.00	23.00.01.00
OS Disk Micron 7450 NVME M.2 SSD 480GB (Max)	E2MU200	E2MU200
NVMe (firmware version)	9CV1R450	9CV1R450
ILOM (Oracle Integrated Lights Out Manager)	5.1.4.20.r157857	5.1.4.20.r157857
BIOS	84060600	84060600
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.9.2.600-1	2.4.9.2.600-1
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	24.5.0	24.5.0
MySQL	8.0.37	8.0.37

Table 2-1 (Cont.) Component Versions for X10-HA, X10-L, and X10-S in Oracle Database Appliance Release 19.24

Component Name	X10-HA	X10-S and X10-L
Kernel	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64
GI_HOME	19.24.0.0.240716	19.24.0.0.240716
DB_HOME	19.24.0.0.240716	19.24.0.0.240716
Oracle Auto Service Request (Oracle ASR)	24.1.0	24.1.0

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 2-2 Component Versions for X9-2-HA, X9-2L, and X9-2S in Oracle Database Appliance Release 19.24

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	2CV1RC51
OS Disk (SSD firmware version)	XC311132 or XC311151	XC311132 or XC311151
ILOM (Oracle Integrated Lights Out Manager)	5.1.4.20.r157857	X9-2S: 5.1.4.20.r157857 X9-2L: 5.1.4.20.r157857
BIOS	62100300	X9-2S: 62100300 X9-2L: 62100300
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.9.2.600-1	2.4.9.2.600-1
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	24.5.0	24.5.0
MySQL	8.0.37	8.0.37
Kernel	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64
GI_HOME	19.24.0.0.240716	19.24.0.0.240716
DB_HOME	19.24.0.0.240716	19.24.0.0.240716
Oracle Auto Service Request (Oracle ASR)	24.1.0	24.1.0

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 2-3 Component Versions for X8-2-HA, X8-2M, and X8-2S in Oracle Database Appliance Release 19.24

Component Name	X8-2-HA	X8-2S and X8-2M
Controller	16.00.08.00	Not applicable
Expander	0310	Not applicable
SSD	A967	Not applicable
NVMe (firmware version)	Not applicable	VDV1RL06
OS Disk (SSD firmware version)	N2010121 or XC311132	N2010121
ILOM (Oracle Integrated Lights Out Manager)	5.1.4.20.r157069	X8-2S: 5.1.4.20.r157069 X8-2M: 5.1.4.20.r157069
BIOS	52130100	X8-2S: 52130100 X8-2M: 52130100
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.9.2.600-1	2.4.9.2.600-1
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	24.5.0	24.5.0
MySQL	8.0.37	8.0.37
Kernel	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64
GI_HOME	19.24.0.0.240716	19.24.0.0.240716
DB_HOME	19.24.0.0.240716	19.24.0.0.240716
Oracle Auto Service Request (Oracle ASR)	24.1.0	24.1.0

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 2-4 Component Versions for X7-2-HA, X7-2M, and X7-2S in Oracle Database Appliance Release 19.24

Component Name	X7-2-HA	X7-2S and X7-2M
Controller	16.00.08.00	Not applicable
Expander	0310	Not applicable
SSD	A17D For the HDD/SSD option: A374/A087	A17D
NVMe (firmware version)	Not applicable	QDV1RF32
OS Disk (SSD firmware version)	N2010121	N2010121
ILOM (Oracle Integrated Lights Out Manager)	5.1.4.20.r157069	5.1.4.20.r157069
BIOS	41160100	41160100
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.9.2.600-1	2.4.9.2.600-1
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	24.5.0	24.5.0
MySQL	8.0.37	8.0.37
Kernel	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64	kernel-uek-5.4.17-2136.333.5.el8uek.x86_64
GI_HOME	19.24.0.0.240716	19.24.0.0.240716
DB_HOME	19.24.0.0.240716	19.24.0.0.240716
Oracle Auto Service Request (Oracle ASR)	24.1.0	24.1.0

3

Oracle Database Appliance 19.24 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.



See Also:

For supported Oracle Database releases on Oracle Database Appliance, see *My Oracle Support Note 2757884.1* at <https://support.oracle.com/rs?type=doc&id=2757884.1>.

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...)
19.24.0.0	<p>For bare metal systems:</p> <ul style="list-style-type: none"> • 19.23.0.0 • 19.22.0.0 • 19.21.0.0 • 19.20.0.0 <p>Note: If your deployment is on Oracle Database Appliance release 19.20, then use Data Provisioning Reprovisioning to upgrade your appliance. If your deployment is on Oracle Database Appliance release 19.22 or 19.21, then patch your appliance.</p>
19.23.0.0	<p>For bare metal systems:</p> <ul style="list-style-type: none"> • 19.22.0.0 • 19.21.0.0 • 19.20.0.0 • 19.19.0.0 <p>Note: If your deployment is on Oracle Database Appliance release 19.19 or 19.20, then use Data Provisioning Reprovisioning to upgrade your appliance. If your deployment is on Oracle Database Appliance release 19.22 or 19.21, then patch your appliance.</p>
19.22.0.0	<p>For bare metal systems:</p> <ul style="list-style-type: none"> • 19.21.0.0 • 19.20.0.0 • 19.19.0.0 • 19.18.0.0 <p>Note: If your deployment is on Oracle Database Appliance release 19.18, 19.19, or 19.20, then use Data Provisioning Reprovisioning to upgrade your appliance. If your deployment is on Oracle Database Appliance release 19.21, then patch your appliance.</p>
19.21.0.0	<p>For bare metal systems:</p> <ul style="list-style-type: none"> • 19.20.0.0 • 19.19.0.0 • 19.18.0.0 • 19.17.0.0 <p>Only for Oracle Database Appliance X10, patch from 19.20.0.1 on bare metal systems.</p>
19.20.0.0	<p>For bare metal systems:</p> <ul style="list-style-type: none"> • 19.19.0.0 • 19.18.0.0 • 19.17.0.0 • 19.16.0.0
19.19.0.0	<p>For bare metal systems:</p> <ul style="list-style-type: none"> • 19.18.0.0 • 19.17.0.0 • 19.16.0.0 • 19.15.0.0

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...)
19.18.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.17.0.0 • 19.16.0.0 • 19.15.0.0 • 19.14.0.0
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
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

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...)
19.10.0.0	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
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

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...)
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
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 and patch to Oracle Database Appliance release 19.24 on Oracle Database Appliance X10 bare metal systems from Oracle Database Appliance release 19.20.0.1, 19.21, 19.22, and 19.23. You can also provision and patch Oracle Database Appliance DB systems on KVM to release 19.24.

For Oracle Database Appliance X9-2 and earlier, you can provision and upgrade to Oracle Database Appliance release 19.24 from Oracle Database Appliance release 19.20. You can patch your appliance from Oracle Database Appliance releases 19.23, 19.22, and 19.21. You can also provision and patch Oracle Database Appliance DB systems on KVM to release 19.24.

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 19.24 from the release list.

Table 3-2 Oracle Database Appliance Patches for Oracle Database Appliance Release 19.24

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance Server Patch for Bare Metal Systems	36873445	Use the server patch to update your deployment to Oracle Database Appliance release 19.24. You must download the Server Patch, Oracle Grid Infrastructure clone file, and the Oracle Database clone file to update your deployment to release 19.24.	For patching to Oracle Database Appliance release 19.23: Patching Oracle Database Appliance For upgrading from Oracle Database Appliance release 19.20 and earlier on X9-2 and earlier: Upgrading Oracle Database Appliance
Oracle Database Appliance 19.24.0.0.0 GI Clone for ODACLI/DCS Stack	30403673	Use patch 30403673 to update your deployment to this Oracle Database Appliance release. 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 19.24.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance RDBMS Clone for ODACLI/DCS Stack	30403662	Use Oracle Database Appliance Database Clone 19.24.0.0.240716 for ODACLI/DCS stack to create 19.24.0.0.0 database homes for the ODACLI/DCS stack.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance 19.24.0.0.0 OS ISO Image for all Platform	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance 19.24. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance 23ai DB System Image Download for KVM	36524660	Use the 23ai DB System template to deploy KVM-based virtualization for Oracle Database Appliance 23ai DB system.	Managing DB Systems in KVM Deployment

Table 3-2 (Cont.) Oracle Database Appliance Patches for Oracle Database Appliance Release 19.24

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance 23ai GI Clone for DB Systems	36524627	Use the Oracle Grid Infrastructure 23ai clone file to deploy Oracle Grid Infrastructure 23ai on DB system.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 23ai Database Clone for DB Systems	36524642	Use the Oracle Database Appliance 23ai clone file to deploy Oracle Database 23ai database on DB system.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 19.24.0.0.0 DB System Image Download for KVM	32451228	Use the KVM DB System template to deploy KVM-based virtualization for Oracle Database Appliance 19.24.	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 Grid Infrastructure 21c on DB system.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 21.8.0.0.221018 Database Clone for DB Systems	33152237	Use the Oracle Database Appliance 21c clone file to deploy Oracle Database 21c database on DB system.	Managing DB Systems in KVM Deployment

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, the operating system may not be updated.
- [Error in server patching](#)
When patching the Oracle Database Appliance server, an error may be encountered.
- [Error in attaching a vdisk after DB system patching](#)
After upgrading a DB system on Oracle Database Appliance, the vdisks attached to the DB system may not continue to be attached.
- [Error in upgrading Oracle AFD-enabled DB system](#)
When upgrading a DB system with Oracle ASM Filter Driver (Oracle AFD) during Data Preserving Re provisioning, an error may be encountered.
- [Error in server patching](#)
When patching the server on Oracle Database Appliance, an error may be encountered.
- [Incorrect job status during Data Preserving Re provisioning](#)
When upgrading your deployment, an error may be encountered.
- [Error in upgrading a database](#)
When upgrading a database, an error may be encountered.
- [Error in database patching](#)
When patching a database on Oracle Database Appliance, 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 restore node process in Data Preserving Re provisioning](#)
In the Data Preserving Re provisioning process, during node restore, an error may be encountered.

- [Error in restore node process in Data Preserving Re provisioning](#)
In the Data Preserving Re provisioning process, during node restore, an error may be encountered.
- [Error messages in log entries in Data Preserving Re provisioning](#)
In the Data Preserving Re provisioning 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 19.24, the `odacli update-dbhome` command may fail.
- [Errors when running ORAchk or the odacli create-prepatchreport command](#)
When you run `ORAchk` or the `odacli create-prepatchreport` command, an error is encountered.
- [Error in patching prechecks report](#)
The patchung 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, 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

When patching the Oracle Database Appliance server, an error may be encountered.

Problem Description

When patching the server on Oracle Database Appliance, an error message may be displayed.

Failure Message

When you run the `odacli update-server` command, the following error message is displayed at the Patch KVM infrastructure task:

```
DCS-10033:Service Clusterware on current node is down.
```

This issue may occur on systems that require update of Oracle ILOM, or operating system, or local storage firmware.

Command Details

```
# odacli update-server -v version
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Restart Oracle Clusterware as follows:

```
$GI_HOME/bin/crsctl start crs
```

Bug Number

This issue is tracked with Oracle bug 36923776.

Error in attaching a vdisk after DB system patching

After upgrading a DB system on Oracle Database Appliance, the vdisks attached to the DB system may not continue to be attached.

Problem Description

After DB system upgrade, the existing vdisks are not attached. Only the vdisk metadata associated with the DB system is preserved. The virtual device name may be different from the name before you run the `odacli upgrade-dbsystem` command.

Command Details

```
# odacli upgrade-dbsystem
```

Hardware Models

All Oracle Database Appliance hardware models X9-2, X8-2, and X7-2

Workaround

Detach the vdisk manually with the `--force` option from the VM to reconcile the metadata. Then, attach the vdisk to the respective VM. Then, manually mount the file system on the device in the DB system.

Bug Number

This issue is tracked with Oracle bug 36885595.

Error in upgrading Oracle AFD-enabled DB system

When upgrading a DB system with Oracle ASM Filter Driver (Oracle AFD) during Data Preserving Reprovisioning, an error may be encountered.

Problem Description

When you upgrade a DB system with Oracle AFD using Data Preserving Reprovisioning to Oracle Database Appliance release 19.22, with Oracle Grid Infrastructure or Oracle Database release 19.21 or earlier, then an error may be encountered at the "Restore node - DPR" step.

Failure Message

The following error message is displayed in the `database alert.log`:

```
ORA-00600: internal error code, arguments: [kfnRConnect!asname], [DATA], [],  
[], [], [], [], [], [], [], [], []
```

Hardware Models

All Oracle Database Appliance hardware models x9-2 and earlier running Oracle Grid Infrastructure 19.21

Workaround

Do not upgrade the existing Oracle AFD-enabled DB system with Oracle Grid Infrastructure or Oracle Database release 19.21 till the fix for bug 36114443 is available in the Oracle Grid Infrastructure and Oracle Database clone files.

Bug Number

This issue is tracked with Oracle bug 36296849.

Error in server patching

When patching the server on Oracle Database Appliance, an error may be encountered.

Problem Description

When patching the server on Oracle Database Appliance, and the DCS agent loads, the scheduler service may fail to start and an error message may be displayed.

Failure Message

The `dcs-agent.log` file displays the following error message:

```
-----  
2024-07-29 14:24:30,351 WARN [backgroundjob-zookeeper-pool-7-thread-2] []  
o.j.s.JobZooKeeper: JobRunr encountered a problematic exception. Please  
create a bug report (if possible, provide the code to reproduce this and the  
stacktrace) - Processing will continue.  
java.lang.NullPointerException: null  
    at  
    org.jobrunr.server.zookeeper.tasks.ZooKeeperTask.pollIntervalInSecondsTimeBoxI  
sAboutToPass(ZooKeeperTask.java:93)  
    at  
    org.jobrunr.server.zookeeper.tasks.ZooKeeperTask.getJobsToProcess(ZooKeeperTas  
k.java:84)  
    at  
    org.jobrunr.server.zookeeper.tasks.ZooKeeperTask.processJobList(ZooKeeperTask.  
java:57)  
    at  
    org.jobrunr.server.zookeeper.tasks.ProcessOrphanedJobsTask.runTask(ProcessOrph  
anedJobsTask.java:29)  
    at  
    org.jobrunr.server.zookeeper.tasks.ZooKeeperTask.run(ZooKeeperTask.java:47)  
    at  
    org.jobrunr.server.JobZooKeeper.lambda$runMasterTasksIfCurrentServerIsMaster$  
0(JobZooKeeper.java:76)  
    at java.util.Arrays$ArrayList.forEach(Arrays.java:3880)  
    at  
    org.jobrunr.server.JobZooKeeper.runMasterTasksIfCurrentServerIsMaster(JobZooKe  
eper.java:76)  
    at org.jobrunr.server.JobZooKeeper.run(JobZooKeeper.java:56)  
-----
```

Command Details

```
# odacli update-server
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

1. Restart the DCS agent:

```
systemctl restart initdcsagent
```

2. Verify that the DCS agent is running:

```
odacli ping-agent  
odacli list-jobs  
odacli describe-component
```

Bug Number

This issue is tracked with Oracle bug 36896020.

Incorrect job status during Data Preserving Reprovisioning

When upgrading your deployment, an error may be encountered.

Problem Description

When a job is marked as `Success`, it means that all of its tasks have completed successfully and none of them are still running. However, there may be cases where the `odacli describe-job` command result incorrectly displays a task in a running state, even though the job itself has successfully completed.

Command Details

```
# odacli describe-job
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

None. Ignore the error.

Bug Number

This issue is tracked with Oracle bug 35970784.

Error in upgrading a database

When upgrading a database, an error may be encountered.

Problem Description

When you create Oracle ASM databases, the RECO directory may not have been created on systems provisioned with the OAK stack. This directory is created when the first RECO record is written. After successfully upgrading these systems using Data Preserving Reprovisioning to Oracle Database Appliance release 19.15 or later, if you attempt to upgrade the database, an error message may be displayed.

Failure Message

When the `odacli upgrade-database` command is run, the following error message is displayed:

```
# odacli upgrade-database -i 16288932-61c6-4a9b-beb0-4eb19d95b2bd -to
b969dd9b-f9cb-4e49-8e0d-575a0940d288
DCS-10001:Internal error encountered: dbStorage metadata not in place:
DCS-12013:Metadata validation error encountered: dbStorage metadata missing
Location info for database database_unique_name..
```

Command Details

```
# odacli upgrade-database
```

Hardware Models

All Oracle Database Appliance X6-2HA and X5-2 hardware models

Workaround

1. Verify that the `odacli list-dbstorages` command displays `null` for the redo location for the database that reported the error. For example, the following output displays a null or empty value for the database unique name `F`.

```
# odacli list-dbstorages
```

ID	Destination Location	Total	Used	Type	DBUnique Name	Status
					Available	
...						
...						
...						
198678d9-c7c7-4e74-9bd6-004485b07c14				ASM	F	CONFIGURED
DATA	+DATA/F	4.89 TB	1.67 GB	4.89		
TB						
REDO	+REDO/F	183.09 GB	3.05 GB	180.04		
GB						
RECO		8.51 TB				
...						

```
...  
...
```

In the above output, the RECO record has a null value.

2. Manually create the RECO directory for this database. If the database unique name is `dbuniq`, then run the `asmcmd` command as the `grid` user.

```
asmcmd
```

3. Run the `mkdir` command.

```
asmcmd> mkdir +RECO/dbuniq
```

4. Verify that the `odacli list-dbstorages` command output does not display a null or empty value for the database.
5. Rerun the `odacli upgrade-database` command.

Bug Number

This issue is tracked with Oracle bug 34923078.

Error in database patching

When patching a database on Oracle Database Appliance, an error may be encountered.

Problem Description

When applying the `datapatch` during patching of database on Oracle Database Appliance, an error message may be displayed.

Failure Message

When the `odacli update-database` command is run, the following error message is displayed:

```
Failed to execute sqlpatch for database ...
```

Command Details

```
# odacli update-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

1. Run the following SQL*Plus command:

```
alter system set nls_sort='BINARY' SCOPE=SPFILE;
```

2. Restart the database using `srvctl` command.
3. Retry applying the `datapatch` with `dbhome/OPatch/datapatch -verbose -db dbUniqueName`.

Bug Number

This issue is tracked with Oracle bug 35060742.

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 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 Re provisioning

In the Data Preserving Re provisioning 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 Re provisioning 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 19.24, if the Security Technical Implementation Guidelines (STIG) V1R2 is already deployed, then when you patch to 19.24 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` 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 19.24, the `odacli update-dbhome` command may fail.

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

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

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 19.24.0.0.0 -f
```

This issue is tracked with Oracle bug 33144170.

Errors when running ORAchk or the odacli create-prepatchreport command

When you run `ORAchk` or the `odacli create-prepatchreport` command, an error is encountered.

The following error messages may be seen:

```
One or more log archive destination and alternate log archive destination
settings are not as recommended
Software home check failed
```

Hardware Models

Oracle Database Appliance hardware models bare metal deployments

Workaround

Run the `odacli update-dbhome`, `odacli create-prepatchreport`, `odacli update-server` commands with the `-sko` option. For example:

```
odacli update-dbhome -j -v 19.24.0.0.0 -i dbhome_id -sko
```

This issue is tracked with Oracle bugs 30931017, 31631618, and 31921112.

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 19.24.0.0.0
^[[ADCS-10008:Failed to update DCScomponents: 19.24.0.0.0
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.

- [Error in creating Oracle AFD-enabled DB system](#)
When creating a DB system with Oracle ASM Filter Driver (Oracle AFD), an error may be encountered.
- [Error in modifying the Oracle ASM port](#)
When running the `odacli modify-asmport` command on Oracle Database Appliance, an error may be encountered.
- [Error in Oracle Data Guard operation after modifying the Oracle ASM port](#)
When running the `odacli modify-asmport` command on Oracle Database Appliance configured with Oracle Data Guard, an error may be encountered.
- [Error in database creation on multi-user access enabled system](#)
When creating a database on multi-user access enabled system on Oracle Database Appliance, an error may be encountered.
- [Error in configuring Oracle ASR](#)
When configuring Oracle ASR, an error may be encountered when registering Oracle ASR Manager due to an issue while contacting the transport server.
- [Error in starting the DB System](#)
When starting a DB system on an Oracle Database Appliance, an error may be encountered.
- [Error in creating database](#)
When creating a database on Oracle Database Appliance, an error may be encountered.

- [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 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 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.

Error in creating Oracle AFD-enabled DB system

When creating a DB system with Oracle ASM Filter Driver (Oracle AFD), an error may be encountered.

Problem Description

When you create a DB system with Oracle AFD on Oracle Database Appliance release 19.22, with Oracle Grid Infrastructure or Oracle Database release 19.21 or earlier, then an error may be encountered at the "Install DB System" step.

Failure Message

The following error message is displayed in the `database alert.log`:

```
WARNING: group 2 (RECO) has missing disks  
ORA-15040: diskgroup is incomplete  
WARNING: group 2 is being dismounted
```

Command Details

```
# odacli create-dbsystem
```

Hardware Models

All Oracle Database Appliance hardware models running Oracle Grid Infrastructure 19.21

Workaround

This issue is fixed in Oracle Grid Infrastructure 19.22 Release Update (RU). Create the DB system using Oracle Grid Infrastructure and Oracle Database release 19.22.

You can create DB system without enabling Oracle AFD by specifying `enableAFD=false` in the DB system JSON file during DB system creation.

Do not patch or upgrade the existing Oracle AFD-enabled DB system with Oracle Grid Infrastructure or Oracle Database release 19.21 till the fix for bug 36114443 is available in the Oracle Grid Infrastructure and Oracle Database clone files.

Bug Number

This issue is tracked with Oracle bug 36300713.

Error in modifying the Oracle ASM port

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

Problem Description

After patching from Oracle Database Appliance release 19.23 to 19.24, if any DB system is running Oracle Database 23ai database released with Oracle Database Appliance release 19.23, an error message may be displayed when you run the `odacli modify-asmport` command.

Failure Message

When the `odacli modify-asmport` command is run, any of the following error message may be displayed:

```
/crs endpoint not found
```

```
/asm endpoint not found
```

Task Level Failure Message

The job may fail at the `Stop CRS on DB System(s)` step. The complete details of the error are displayed in the Message section of the command output.

Command Details

```
# odacli modify-asmport
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Patch your DB system to Oracle Database Appliance release 19.24 and use the DB 23ai clones available with Oracle Database Appliance release 19.24.

Bug Number

This issue is tracked with Oracle bug 36879784.

Error in Oracle Data Guard operation after modifying the Oracle ASM port

When running the `odacli modify-asmport` command on Oracle Database Appliance configured with Oracle Data Guard, an error may be encountered.

Problem Description

If you run the `odacli modify-asmport` command on an appliance configured with Oracle Data Guard that uses `MAX PROTECTION` mode, then this could cause a disruption in primary site due to the standby Oracle Clusterware being restarted as part of the Oracle ASM port change.

Failure Message

The following error message may be displayed in the alert logs for the database on the primary host:

```
ORA-16072: a minimum of one standby database destination is required
```

Followed by the message:

```
terminating the instance due to ORA error 16072
```

Task Level Failure Message

The job may fail at the `Stop CRS on DB System(s)` step. The complete details of the error are displayed in the Message section of the command output.

Command Details

```
# odacli modify-asmport
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Start the database instance on the primary host.

Bug Number

This issue is tracked with Oracle bug 36931905.

Error in database creation on multi-user access enabled system

When creating a database on multi-user access enabled system on Oracle Database Appliance, an error may be encountered.

Problem Description

When you create a database on a multi-user access enabled system, an error message may be displayed.

Failure Message

When the user name of database owner contains both lowercase and uppercase letters, the error message may be as follows:

```
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - [FATAL] Error in
Process: /u01/app/KvE16/product/19.0.0.0/dbhome_2/bin/orapwd
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - Enter password for SYS:
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - OPW-00010: Could not
create the password file.
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - ORA-00600: internal error
code, arguments: [kfzpCreate02], [0], [], [], [], [], [], [], [], [], []
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - ORA-15260: permission
denied on ASM disk group
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - ORA-06512: at
"SYS.X$DBMS_DISKGROUP", line 679
[jobid-74f31148-ebe0-4507-9296-b9ad4ca7e03b] - ORA-06512: at line 2
```

When the user name of database owner begins with number digit, the error message may be as follows:

```
PRCZ-4001 : failed to execute command "/u01/app/6RXNI/product/19.0.0.0/
dbhome_15//bin/dbca" using the privileged execution plugin "odaexec" on nodes
"scaoda901c7n1" within 5,000 seconds
PRCZ-2103 : Failed to execute command "/u01/app/6RXNI/product/19.0.0.0/
dbhome_15//bin/dbca" on node "scaoda901c7n1" as user "6RXNI". Detailed error:
[FATAL] [DBT-05801] There are no ASM disk groups detected.
CAUSE: ASM may not be configured, or ASM disk groups are not created yet.
ACTION: Create ASM disk groups, or change the storage location to File
System.
[FATAL] [DBT-05801] There are no ASM disk groups detected.
CAUSE: ASM may not be configured, or ASM disk groups are not created yet.
ACTION: Create ASM disk groups, or change the storage location to File
System.
```

Command Details

```
# odacli create-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Do not start custom user name with number digit or have mixed-case letters in the custom user name.

Bug Number

This issue is tracked with Oracle bug 36878796.

Error in configuring Oracle ASR

When configuring Oracle ASR, an error may be encountered when registering Oracle ASR Manager due to an issue while contacting the transport server.

Failure Message

The following error message is displayed:

```
DCS-10045:Validation error encountered: Registration failed : Please check the agent logs for details.
```

Command Details

```
# odacli configure-asr
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Retry configuring Oracle ASR using the `odacli configure-asr` command.

Bug Number

This issue is tracked with Oracle bug 36363437.

Error in starting the DB System

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

Problem Description

If DBVM is undefined using `virsh undefine dbvm_name`, then the `odacli start-dbsystem` command may fail to run.

Failure Message

The following error message may be displayed:

```
DCS-10001:Internal error encountered: error: failed to get domain 'dbvm_name'
```

Hardware Models

All Oracle Database Appliance hardware models running Oracle Database Appliance release 19.21

Workaround

Run `virsh define /u05/app/sharedrepo/dbsystem/.ACFS/snaps/vm_dbvm_name/dbvm_name.xml` to define the VM. Then start the DB system.

Bug Number

This issue is tracked with Oracle bug 36051738.

Error in creating database

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

Problem Description

When creating a database on Oracle Database Appliance, the operation may fail after the `createDatabaseByRHP` task. However, the `odacli list-databases` command displays the status as CONFIGURED for the failed database in the job results.

Failure Message

When you run the `odacli create-database` command, the following error message is displayed:

```
DCS-10001:Internal error encountered: Failed to clear all listeners from database
```

Command Details

```
# odacli create-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Check the job description of the `odacli create-database` command using the `odacli describe-job` command. Fix the issue for the task failure in the `odacli create-database` command. Delete the database with the command `odacli delete-database -n db_name` and retry the `odacli create-database` command.

Bug Number

This issue is tracked with Oracle bug 34709091.

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 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 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.

Known Issues When Managing Oracle Database Appliance

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

- [Error in upgrading Oracle Data Guard](#)
When upgrading Oracle Data Guard, an error may be encountered.
- [Error in deleting database home](#)
When deleting a database home on Oracle Database Appliance, an error may be encountered.
- [Error in running a job](#)
When running a job, an error may be encountered.
- [Error in configuring Oracle Data Guard](#)
When configuring Oracle Data Guard on Oracle Database Appliance, an error may be encountered.
- [Error in cleaning up a deployment](#)
When cleaning up a Oracle Database Appliance, an error is 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 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 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.
- [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 upgrading Oracle Data Guard

When upgrading Oracle Data Guard, an error may be encountered.

Problem Description

If you configured Oracle Data Guard on a multi-user access enabled Oracle Database Appliance release 19.19 system, as odaadmin user, then this Oracle Data Guard configuration may not display when you run the odacli list-dataguardstatus command. If you upgrade this system to Oracle Database Appliance release 19.23 using Data Preserving Reprovisioning,

then the Validate Database Service presence step in the the create-preupgradereport precheck may fail for the Oracle Data Guard database.

The following error message is displayed:

```
One or more pre-checks failed for [DB]
```

Command Details

```
# odacli create-preupgradereport
```

```
# odacli describe-preupgradereport
```

Task Level Failure message

```
"The following services [TDGlyn_ro, TDGlyn_rw, Y6Z_ro, Y6Z_rw] created on
database
'TDGlyn' can result in a failure in 'detach-node'
```

Hardware Models

All Oracle Database Appliance hardware models X9-2, X8-2, and X7-2

Workaround

For each service listed, do the following:

1. Stop the service reported:

```
srvctl stop service -d db_unique_name -service service_name
```

2. Remove the service:

```
srvctl remove service -d db_unique_name -service service_name
```

Bug Number

This issue is tracked with Oracle bug 36610040.

Error in deleting database home

When deleting a database home on Oracle Database Appliance, an error may be encountered.

Problem Description

When you delete a database home, the database home is not deleted completely. The subfolders and files exist in the corresponding database home location and the database home entry exists in the `/u01/app/oraInventory/ContentsXML/inventory.xml` file.

Failure Message

When the `odacli update-database` command is run, the following error message is displayed:

```
Failed to execute sqlpatch for database ...
```

Command Details

```
# odacli delete-dbhome
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Before you run the `odacli delete-dbhome` command, confirm that the `wOraDBversion_homeidx` exists in the `/opt/oracle/rhp/RHPCheckpoints/` location on the same node where you run the command.

Bug Number

This issue is tracked with Oracle bug 36864228.

Error in running a job

When running a job, an error may be encountered.

Problem Description

Due to distributed lock conflict during DCS infrastructure connection callback, an error may be encountered when running a job.

Failure Message

The following error message is displayed:

```
DCS-10058:DCS agent is not running on all nodes.
```

Command Details

Any ODACLI command

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Restart the DCS agent service on each node in a sequential manner, one after another:

```
# systemctl restart initdcsagent
```

Bug Number

This issue is tracked with Oracle bug 36380550.

Error in configuring Oracle Data Guard

When configuring Oracle Data Guard on Oracle Database Appliance, an error may be encountered.

Problem Description

When you configure Oracle Data Guard on the second node of the standby system on an Oracle Database Appliance high-availability deployment, the operation may fail at step `Configure Standby database (Standby site)` in the task `Reset Db sizing and hidden parameters for ODA best practice`.

Command Details

```
odacli configure-dataguard
```

Hardware Models

All Oracle Database Appliance hardware models high-availability deployments

Workaround

Run `odacli configure-dataguard` on the first node of the standby system in the high-availability deployment

Bug Number

This issue is tracked with Oracle bug 33401667.

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 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 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 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.

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.