

Oracle® Database Appliance

Release Notes



Release 19.30 for Linux x86-64

G49049-01

February 2026

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

ORACLE®

Copyright © 2013, 2026, Oracle and/or its affiliates.

Primary Author: Aparna Kamath

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

Audience	i
Documentation Accessibility	i
Related Documents	i
Conventions	ii

1 What's New in This Release

2 Component Versions for Oracle Database Appliance

Component Versions for Oracle Database Appliance X11 Models	1
Component Versions for Oracle Database Appliance X10 Models	2
Component Versions for Oracle Database Appliance X9-2 Models	3
Component Versions for Oracle Database Appliance X8-2 Models	4

3 Oracle Database Appliance 19.30 Patches

Patching from Previous Releases	1
Minimum Software Version Requirements	6
Oracle Database Appliance Bare Metal System and KVM Patches	6

4 Known Issues with Oracle Database Appliance in This Release

Known Issues When Patching Oracle Database Appliance	1
Error in creating database on DB system on multi-user access enabled system	2
Alert about Oracle ASMFD when patching DB system	3
Error in describing components after patching	4
Error in DB system operations after patching the bare metal system	5
Error in running prepatch checks	6
Incorrect display of components after patching	7
Error in creating database	7
Free space issue during database patching	9
Error in DB system after server patching	9

Error in server patching	11
Error in database patching	12
Component version not updated after patching	13
Error in server patching	13
AHF error in prepatch report for the update-dbhome command	14
Errors when running ORAchk or the odacli create-prepatchreport command	14
Error in patching prechecks report	15
Server status not set to Normal when patching	15
Patching of M.2 drives not supported	16
Known Issues When Deploying Oracle Database Appliance	16
Error in provisioning bare metal system	17
Error in creating database home	18
Error in creating DB system	18
Error in database creation on multi-user access enabled system	20
Error in configuring Oracle ASR	21
Error in creating database	21
Error in creating two DB systems	22
Error in adding JBOD	23
Error in provisioning appliance after running cleanup.pl	23
Error encountered after running cleanup.pl	23
Errors in clone database operation	24
Known Issues When Managing Oracle Database Appliance	24
Error in configuring Oracle Data Guard	25
Error in changing password of Oracle Key Vault TDE-enabled database	26
Error in interconnect network	27
Error in configuring multiple standby databases on Oracle Data Guard	28
Error in upgrading Oracle Data Guard	29
Error in creation of Oracle Key Vault TDE-enabled database	30
Error in deleting a TDE-enabled database	31
Error in configuring Oracle Data Guard	32
Error in cleaning up a deployment	32
Error in display of file log path	33
Error in the enable apply process after upgrading databases	33
Error in updating Role after Oracle Data Guard operations	33
Inconsistency in ORAchk summary and details report page	34
The odaeraser tool does not work if oakd is running in non-cluster mode	34

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 customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

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 19.30 supports Oracle Database 19c functionality on Oracle Database Appliance hardware models.

Changes in Oracle Database Appliance Release 19.30

This release supports Oracle Database Appliance models X11-HA, X11-L, X11-S, X10-HA, X10-L, X10-S, X9-2-HA, X9-2L, X9-2S, X8-2-HA, X8-2M, and X8-2S. 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 19.30. 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 19.30.

For Oracle Database 19c and Oracle AI Database 26ai 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:

- **Option to rollback updates on Oracle Database Appliance**
Starting with Oracle Database Appliance release 19.30, in case of a failure during the patching operation `odacli update-servercomponents` on the bare metal system, you can rollback the system to the state that existed before you ran the operation.

For complete details about patching your appliance, see the topic *About Rolling Back Updates* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.
- **Changes in the patching procedure for Oracle Database Appliance**
Starting with Oracle Database Appliance release 19.30, the `odacli update-dcscomponents job` runs asynchronously on the bare metal system. A job ID is generated, and you can run the `odacli describe-admin-job -i job_ID` command to monitor the job progress. Starting with Oracle Database Appliance release 19.30, server patching on a high-availability system starts nodes serially, that is, the nodes are restarted one after another.

Starting with Oracle Database Appliance release 19.30, the `odacli describe-component` command is enhanced to provide a detailed view of the patching status of the component. All available components are grouped into component groups, with each component group mapped to the patching operation, for example, DCSCOMPONENTS, SERVER, GI, and others, for ease of tracking the completion of the patching operation. A **Patching Strategies** section provides details on the Oracle Clusterware and node restart implications associated with the usage of different options for a patching command. For example, the usage of `--local` when you run the `odacli update-servercomponents` command implies a restart of the local node being patching, but indicates that there is no downtime of the running database instances.

For complete details about patching your appliance, see the chapter *Patching Your Appliance* in 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 19.30 on X11-HA, X11-L, X11-S, X10-HA, X10-L, X10-S, X9-2-HA, X9-2L, X9-2S, X8-2-HA, X8-2M, and X8-2S.

See the chapter *Provisioning Oracle Database Appliance Bare Metal System* in the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.
- **Support for Oracle AI Database 26ai and 19c databases on Oracle Database Appliance DB systems**

This release supports creation of databases of Oracle AI Database 26ai 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 26ai, 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 AI Database 26ai and 19c databases on DB systems, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.
- **Support to back up Oracle Database Appliance databases to Oracle Database Zero Data Loss Cloud Protect**

The Cloud Protect Fleet Agent is installed when Oracle Database Appliance is provisioned or patched, and when you create the DB system. After installation, the database owner must manually use the Cloud Protect Fleet Agent to create the required Recovery Service resources and enable backups for databases on Oracle Database Appliance.

For more information, see the *Oracle Database Appliance Deployment and User's Guide* for your hardware model.
- **Enterprise Manager Plug-in Support for Oracle Database Appliance X8-2 and Later Hardware Models with Oracle Database Appliance release 19.30**

With this plug-in release, you can use Enterprise Manager Cloud Control 13c Release 5 (13.5) to manage and monitor your Oracle Database Appliance X8-2 and later systems for Oracle Database Appliance release 19.30.

For more information, see the *Oracle Enterprise Manager Plugin for Oracle Database Appliance Release Notes*.
- **Deprecation of STIG on Oracle Database Appliance**

Oracle Database Appliance is hardened by default to align with Security Technical Implementation Guide (STIG) standards. The security of the system is further strengthened through the implementation of SCAP controls, delivering an out-of-the-box pass rate of over 90% on all SCAP-automated STIG checks. With this native SCAP integration, the legacy OLSS-based STIG scripts are now marked as deprecated and may be removed in a future release of Oracle Database Appliance software.
- **ODACLI Command Enhancements**

There are changes to ODA CLI 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.
- **Oracle Grid Infrastructure and Oracle Database Updates**

The following Oracle Grid Infrastructure and Oracle Database updates (January 2026 Oracle Database Release Update) for bare metal systems are available in this release:

 - 19.30.0.0.260120

Oracle Grid Infrastructure and Oracle AI Database Update 23.26.1.0.0 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 19.30 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 19.30 from the drop down list.

- **Oracle Database Appliance 19.30.0.0.0 Server Patch for Bare Metal Systems:** Use patch 38776074 to update your bare metal deployment to Oracle Database Appliance release 19.30. You must download the Server Patch, Oracle Grid Infrastructure clone file, and the Oracle Database clone file to update your deployment to release 19.30.
- **Oracle Database Appliance 19.30.0.0.0 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 19.30.0.0.260120 Software Clone file to create 19.30.0.0.260120 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 19.30.0.0.0 DB System Image Download for KVM:** Use the KVM Database System template to deploy KVM-based virtualization for Oracle Database Appliance release 19.30. Patch 32451228 provides the software for this update.
- **Oracle Database Appliance 26ai DB System Image Download for KVM:** Use the KVM Database System template to deploy KVM-based virtualization for DB system of version 26ai. Patch 36524660 provides the software for this update.
- **Oracle Database Appliance 26ai GI Clone for DB Systems:** Use patch 36524627 to perform an initial deployment of Oracle Database Appliance on DB Systems for creating Oracle AI Database 26ai databases. This patch is for Oracle Database Appliance hardware models with DB systems only.
- **Oracle Database Appliance 26ai Database Clone File for DB Systems:** Use the Oracle AI Database 26ai Software Clone file to create 26ai 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 26ai DB System Server Patch:** Use the KVM DB System template to patch 26ai KVM-based virtualization for Oracle Database Appliance 19.30. Patch 38776071 provides this update. This patch is for Oracle Database Appliance hardware models with DB systems only.
- **Oracle Database Appliance 19.30.0.0.0 OS ISO Image for all Platforms:** Use this patch to reimage the operating system for Oracle Database Appliance 19.30. Patch 30403643 provides the software for this update.

Related Topics

- [About Rolling Back Updates](#)
- [Using Oracle Database Zero Data Loss Cloud Protect on Oracle Database Appliance](#)
- [Patching Oracle Database Appliance](#)

- Provisioning Oracle Database Appliance X11 Bare Metal System
- Oracle Database Appliance Command-Line Interface
- Oracle Enterprise Manager Plugin for Oracle Database Appliance Release Notes

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 X11 Models](#)
The matrix displays the component versions available for Oracle Database Appliance for X11-S, X11-L, and X11-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.
- [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 X11 Models

The matrix displays the component versions available for Oracle Database Appliance for X11-S, X11-L, and X11-HA.

Table 2-1 Component Versions for X11-HA, X11-L, and X11-S in Oracle Database Appliance Release 19.30

Component Name	X11-HA	X11-S and X11-L
External HBA Silverthorn EXT-B	23.00.01.00	23.00.01.00
OS Disk Micron 7450 NVME M.2 SSD 480GB (Max)	E2MU300	E2MU300
Disks (SSD/HDD)	Samsung 7.5T SDD: MPPA8R5Q WDC 22T HDD: AG64	Samsung 7.5T SDD: MPPA8R5Q
NVMe (firmware version)	Intel NVMe: 9CV1R490 Samsung NVMe: GDB7302Q	Samsung NVMe: MPPA6R5Q and GDB7302Q
Expander	DE3-24C: IOMv2- 2501	Not applicable
ILOM (Oracle Integrated Lights Out Manager)	5.1.5.29.r167270	5.1.5.29.r167270
BIOS	90050500	90050500
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.10.1.600-4	2.4.10.1.600-4

Table 2-1 (Cont.) Component Versions for X11-HA, X11-L, and X11-S in Oracle Database Appliance Release 19.30

Component Name	X11-HA	X11-S and X11-L
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	25.11.1	25.11.1
MySQL	8.0.44	8.0.44
Kernel	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64
GI_HOME	19.30.0.0.260120	19.30.0.0.260120
DB_HOME	19.30.0.0.260120	19.30.0.0.260120
Oracle Auto Service Request (Oracle ASR)	25.1.0	25.1.0

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 2-2 Component Versions for X10-HA, X10-L, and X10-S in Oracle Database Appliance Release 19.30

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)	E2MU300	E2MU300
Disks (SSD/HDD)	Samsung 7.5T SDD: MPPA8R5Q WDC 22T HDD: AG64	Not applicable
NVMe (firmware version)	Intel NVMe: 9CV1R490 Samsung NVMe: MPPA6R5Q	Intel NVMe: 9CV1R490 Samsung NVMe: MPPA6R5Q
Expander	DE3-24C: IOMv2- 2501	Not applicable
ILOM (Oracle Integrated Lights Out Manager)	5.1.5.29.r167310	5.1.5.29.r167310
BIOS	84100500	84100500
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.10.1.600-4	2.4.10.1.600-4
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	25.11.1	25.11.1
MySQL	8.0.44	8.0.44
Kernel	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64
GI_HOME	19.30.0.0.260120	19.30.0.0.260120

Table 2-2 (Cont.) Component Versions for X10-HA, X10-L, and X10-S in Oracle Database Appliance Release 19.30

Component Name	X10-HA	X10-S and X10-L
DB_HOME	19.30.0.0.260120	19.30.0.0.260120
Oracle Auto Service Request (Oracle ASR)	25.1.0	25.1.0

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 2-3 Component Versions for X9-2-HA, X9-2L, and X9-2S in Oracle Database Appliance Release 19.30

Component Name	X9-2-HA	X9-2S and X9-2L
Controller	16.00.08.00	Not applicable
Expander	DE3-24C: IOMv2- 2501	Not applicable
SSD	RXG0	Not applicable
NVMe (firmware version)	Not applicable	2CV1RC55
OS Disk (SSD firmware version)	XC311132 or XC311151	XC311132 or XC311151
ILOM (Oracle Integrated Lights Out Manager)	5.1.5.29.r167569	X9-2S: 5.1.5.29.r167569 X9-2L: 5.1.5.29.r167569
BIOS	62150200	X9-2S: 62150200 X9-2L: 62150200
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.10.1.600-4	2.4.10.1.600-4
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	25.11.1	25.11.1
MySQL	8.0.44	8.0.44
Kernel	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64
GI_HOME	19.30.0.0.260120	19.30.0.0.260120
DB_HOME	19.30.0.0.260120	19.30.0.0.260120
Oracle Auto Service Request (Oracle ASR)	25.1.0	25.1.0

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 2-4 Component Versions for X8-2-HA, X8-2M, and X8-2S in Oracle Database Appliance Release 19.30

Component Name	X8-2-HA	X8-2S and X8-2M
Controller	16.00.08.00	Not applicable
Expander	DE3-24C: IOMv2- 2501	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)	5.1.5.29.r167438	X8-2S: 5.1.5.29.r167438 X8-2M: 5.1.5.29.r167438
BIOS	52170100	X8-2S: 52170100 X8-2M: 52170100
IPMI (Intelligent Platform Management Interface)	1.8.18.0	1.8.18.0
HMP (Oracle Hardware Management Pack)	2.4.10.1.600-4	2.4.10.1.600-4
Oracle Linux	8.10	8.10
AHF (Oracle Autonomous Health Framework)	25.11.1	25.11.1
MySQL	8.0.44	8.0.44
Kernel	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64	kernel-uek-core-5.15.0-316.196.4.1.el8uek.x86_64
GI_HOME	19.30.0.0.260120	19.30.0.0.260120
DB_HOME	19.30.0.0.260120	19.30.0.0.260120
Oracle Auto Service Request (Oracle ASR)	25.1.0	25.1.0

3

Oracle Database Appliance 19.30 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...)
19.30.0.0	For bare metal systems: <ul style="list-style-type: none">• 19.29.0.1.0• 19.29.0.0• 19.28.0.0• 19.27.0.0• 19.26.0.0

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...)
19.29.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.28.0.0 • 19.27.0.0 • 19.26.0.0 • 19.25.0.0
19.28.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.27.0.0 • 19.26.0.0 • 19.25.0.0 • 19.24.0.0
19.27.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.26.0.0 • 19.25.0.0 • 19.24.0.0 • 19.23.0.0
19.26.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.25.0.0 • 19.24.0.0 • 19.23.0.0 • 19.22.0.0
19.25.0.0	For bare metal systems: <ul style="list-style-type: none"> • 19.24.0.0 • 19.23.0.0 • 19.22.0.0 • 19.21.0.0
19.24.0.0	For bare metal systems: <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 Re provisioning 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	For bare metal systems: <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 Re provisioning to upgrade your appliance. If your deployment is on Oracle Database Appliance release 19.22 or 19.21, then patch your appliance.</p>

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...)
19.22.0.0	<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
19.18.0.0	<p>For bare metal systems:</p> <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	<p>For bare metal systems:</p> <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	<p>For bare metal systems:</p> <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
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 patch to Oracle Database Appliance release 19.30 on Oracle Database Appliance bare metal systems and DB systems from Oracle Database Appliance releases 19.26, 19.27, 19.28, and 19.29. You can also provision and patch Oracle Database Appliance bare metal systems and DB systems on KVM to release 19.30.

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 19.30 from the release list.

Table 3-2 Oracle Database Appliance Patches for Oracle Database Appliance Release 19.30

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance 19.30.0.0.0 Server Patch for Bare Metal Systems	38776074	Use the server patch to update your deployment to Oracle Database Appliance release 19.30. You must download the Server Patch, Oracle Grid Infrastructure clone file, and the Oracle Database clone file to update your deployment to release 19.30.	For patching to Oracle Database Appliance release 19.30: Patching Oracle Database Appliance

Table 3-2 (Cont.) Oracle Database Appliance Patches for Oracle Database Appliance Release 19.30

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance 19.30.0.0.0 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 19.30.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance 19.30.0.0.0 RDBMS Clone for ODACLI/DCS Stack	30403662	Use Oracle Database Appliance Database Clone 19.30.0.0.260120 for ODACLI/DCS stack to create 19.30.0.0.0 database homes for the ODACLI/DCS stack.	Provisioning Oracle Database Appliance Software
Oracle Database Appliance 19.30.0.0.0 OS ISO Image for all Platform	30403643	Use the ISO image to re-image the operating system for Oracle Database Appliance 19.30. Re-imaging a server installs the new operating system on the local disks on that server.	Re-imaging Oracle Database Appliance
Oracle Database Appliance 26ai DB System Image Download for KVM	36524660	Use the 26ai DB System template to deploy KVM-based virtualization for Oracle Database Appliance 26ai DB system.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 26ai GI Clone for DB Systems	36524627	Use the Oracle Grid Infrastructure 26ai clone file to deploy Oracle Grid Infrastructure 26ai on DB system.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 26ai Database Clone for DB Systems	36524642	Use the Oracle Database Appliance 26ai clone file to deploy Oracle AI Database 26ai database on DB system.	Managing DB Systems in KVM Deployment

Table 3-2 (Cont.) Oracle Database Appliance Patches for Oracle Database Appliance Release 19.30

Patch Type	Patch Number	Description	Resources
Oracle Database Appliance 19.30.0.0.0 DB System Image Download for KVM	32451228	Use the KVM DB System template to deploy 19c KVM-based virtualization for Oracle Database Appliance 19.30.	Managing DB Systems in KVM Deployment
Oracle Database Appliance 26ai DB System Server Patch	38776071	Use the KVM DB System template to patch 26ai KVM-based virtualization for Oracle Database Appliance 19.30.	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.

Warning

When you patch your deployment from Oracle Database Appliance release 19.29 to Oracle Database Appliance release 19.30, if you see the error DCS-10315 - Patch described in My Oracle Support Note KB867473 must be applied. in the prepatch report, ensure that you follow the procedure described in *My Oracle Support Note KB867473*, and then use the `--force` option with the `odacli update-database` or `odacli update-dbhome` command.

- [Error in creating database on DB system on multi-user access enabled system](#)
When creating a database on a multi-user access enabled DB system, an error is encountered.
- [Alert about Oracle ASMFD when patching DB system](#)
When patching a DB system, an alert message about Oracle ASMFD is displayed.
- [Error in describing components after patching](#)
When running the `odacli describe-component` command on Oracle Database Appliance, an error may be encountered.
- [Error in DB system operations after patching the bare metal system](#)
When running operations on DB systems after patching the bare metal system on Oracle Database Appliance, an error may be encountered.
- [Error in running prepatch checks](#)
When running prepatch report on Oracle Database Appliance, an error may be encountered.

- [Incorrect display of components after patching](#)
When running the `odacli describe-component -di` command on Oracle Database Appliance, the output may be incorrect.
- [Error in creating database](#)
When creating a database on Oracle Database Appliance, an error may be encountered.
- [Free space issue during database patching](#)
When patching the database on Oracle Database Appliance, an error may be encountered.
- [Error in DB system after server patching](#)
After patching the server on Oracle Database Appliance, an error may be encountered on the DB system.
- [Error in server patching](#)
When patching the server on Oracle Database Appliance, 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 Oracle Database Appliance server, 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 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 19.30, 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 patching prechecks report may display an error.
- [Server status not set to Normal when patching](#)
When patching Oracle Database Appliance, 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 creating database on DB system on multi-user access enabled system

When creating a database on a multi-user access enabled DB system, an error is encountered.

Problem Description

Creation of database as the `odaadmin` user on a multi-user access enabled DB system with `enableRoleSeparation` set to `false` during provisioning of the DB system may fail.

Failure Message

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

```
DCS-10001: FAILED TO CREATE THE DATABASE: THERE ARE NO ASM DISK GROUPS  
DETECTED
```

Command Details

```
# odacli create-database
```

Hardware Models

All Oracle Database Appliance hardware models with multi-user access enabled systems

Workaround

Do one of the following:

- Create the database using the default `oracle` user created as part of provisioning the DB system.
- As `root` user, run the `usermod -a -G DBA role group name odaadmin` command to add the user `odaadmin` to the DBA group. The name of the group is specified in the provisioning json for the DB system. After this, run the `odacli create-database` command as the `odaadmin` user.

Bug Number

This issue is tracked with Oracle bug 38920839.

Alert about Oracle ASMFD when patching DB system

When patching a DB system, an alert message about Oracle ASMFD is displayed.

Problem Description

The precheck `Validate DB System AFD state` may report DB systems that do not have Oracle ASMFD configured.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Create the prepatch report on DB systems after patching the bare metal system. The precheck for Oracle ASMFD is not run if Oracle ASMFD is not enabled on the DB systems.

Bug Number

This issue is tracked with Oracle bug 38866175.

Error in describing components after patching

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

Problem Description

After patching the appliance to Oracle Database Appliance release 19.30, the describe component operation fails to run. Operations that create a new job fail as well.

Failure Message

When you run the `odacli describe-component` command, the following error message may be displayed:

```
java.net.SocketException: Unexpected end of file from server
```

Command Details

```
# odacli describe-component
```

Hardware Models

All Oracle Database Appliance hardware models high-availability deployments

Workaround

Follow these steps:

1. Restart Oracle HAMI ensemble members. On all nodes, run:

```
# /opt/oracle/dcs/hami/bin/hamictl.sh restart --ensemble ODA_DCS --local --no-wait
```

2. Restart the DCS agent. On all nodes, run:

```
# systemctl restart initdcsagent.service
```

3. Run the ping agent operation on both nodes:

```
# odacli ping-agent
```

4. Retry the describe-component operation from any node:

```
# odacli describe-component
```

Bug Number

This issue is tracked with Oracle bug 38867782.

Error in DB system operations after patching the bare metal system

When running operations on DB systems after patching the bare metal system on Oracle Database Appliance, an error may be encountered.

Problem Description

After patching the bare metal system, and the bare metal system restarts, the DCS infrastructure in the existing DB systems may become unresponsive.

Failure Message

The following error message may be displayed in the DB system:

```
DCS-10033:Service DCS agent is down.
```

Command Details

ODACLI commands to create, update, and describe, and the `odacli ping-agent` command.

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Do the following on the affected DB system:

1. Check the HAMI ensemble status.
For Oracle Database Appliance release 19.28 and later, run the following command:

```
# /opt/oracle/dcs/hami/bin/hamictl.sh status --ensemble ODA_DCS --service
```

For Oracle Database Appliance release 19.27 and earlier, run the following command:

```
# /opt/oracle/dcs/hami/bin/hamictl.sh status --ensemble ODA_DCS
```

2. If the service appears as OFFLINE, then start the members by running the following command on all hosts:

```
# /opt/oracle/dcs/hami/bin/hamictl.sh start --ensemble ODA_DCS --local
```

3. Wait for one min and check the Oracle HAMI ensemble status again.
If the status is ONLINE for all members, continue with the ODACLI command as normal and do not run steps 4-8. If the status remains as OFFLINE for a member, then run steps 4-8.

4. Stop the agent on all nodes:

```
# systemctl stop initdcsagent.service
```

5. Clean Oracle HAMI ensemble, run on all nodes:

```
# /opt/oracle/dcs/hami/bin/hamictl.sh clean --ensemble ODA_DCS --force
```

6. Start the agent on all nodes at the same time.

```
# systemctl start initdcsagent.service
```

7. Wait for five minutes, and then check Oracle HAMI status again. The status must be ONLINE for all members.
8. Check the ping operation for the agent on every node:

```
# odacli-view ping-agent
```

Bug Number

This issue is tracked with Oracle bug 38765819.

Error in running prepatch checks

When running prepatch report on Oracle Database Appliance, an error may be encountered.

Problem Description

When running the prechecks report for patching, the operation may fail.

Failure Message

The following error message may be displayed:

```
DCS-10267 - failed to run the patch precheck with Oracle FPP for Oracle home  
ID home_ID Internal error encountered: PRGO-1198: The source working copy is  
incomplete.
```

Command Details

```
# odacli create-prepatchreport
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Verify that the Oracle home with the ID described in the prepatch report exists on both nodes.
2. Determine which node had the prepatch failure using the `odacli describe-prepatchreport -i` command.
3. Stop the DCS agent on the node where the prepatch report failed:

```
systemctl stop initdcsagent
```

4. Run the following command on the same node as the `root` use.

```
export DB_HOME=$(odacli-view describe-prepatchreport -i PREPATCH_ID | grep  
'Description:' | sed -n 's/.*DbHome is \([^ ]*\).*\/\1/p');
```

```
/opt/oracle/dcs/mysql/bin/mysql -hlocalhost -uroot --socket=/opt/  
oracle/dcs/mysql/log/mysql.sock -e "USE GHSUSER23; UPDATE SWHOMES SET  
complete=1 WHERE name='$DB_HOME'; COMMIT;"
```

5. Run the command `systemctl start initdcsagent`.
6. Create the prepatch report again.

Bug Number

This issue is tracked with Oracle bug 38934628.

Incorrect display of components after patching

When running the `odacli describe-component -di` command on Oracle Database Appliance, the output may be incorrect.

Problem Description

After provisioning or patching an Oracle Database Appliance system to Oracle Database Appliance release 19.30, the `odacli describe-component -di` command may incorrectly indicate that a later version of the OAK component is available when the system is already up-to-date.

Failure Message

This is a display or reporting inconsistency.

Command Details

```
# odacli describe-component -di
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

No action required. This issue is seen with dotted version labels, for example, labels such as `xxxxxx.x`. Ignore the output because there is no pending update for OAK even if an `Available Version` is shown.

Bug Number

This issue is tracked with Oracle bug 38866151.

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 due to Oracle ASM disks not being detected.

Failure Message

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

```
[jobid-01869f4e-5f45-4f52-9973-6d39771ef86e] - [FATAL] [DBT-05801] There are
no ASM disk groups detected.
[jobid-01869f4e-5f45-4f52-9973-6d39771ef86e] - CAUSE: ASM may not be
configured, or ASM disk groups are not created yet.
[jobid-01869f4e-5f45-4f52-9973-6d39771ef86e] - ACTION: Create ASM disk
groups, or change the storage location to File System.
```

Command Details

```
# odacli create-database run by customized user whose name is only one-
character long
```

Task Level Failure Message

Check for `kfod` failure in DBCA trace file:

```
INFO: [2025-07-28 14:21:24.794 IST][main][StatusControl.showMessage:56]
Checking if ASM is configured

[main] [ 2025-07-28 14:21:24.795 IST ] [KfodUtil.kfodOutput:382] /u01/app/
23.9.0.25/grid/bin/kfod
[main] [ 2025-07-28 14:21:24.795 IST ] [KfodUtil.kfodOutput:382] nohdr=TRUE
[main] [ 2025-07-28 14:21:24.795 IST ] [KfodUtil.kfodOutput:382] OP=GROUPS
[main] [ 2025-07-28 14:21:24.795 IST ] [KfodUtil.kfodOutput:382] status=true
[main] [ 2025-07-28 14:21:24.795 IST ] [KfodUtil.kfodOutput:382]
asmcompatibility=true dbcompatibility=true
[main] [ 2025-07-28 14:21:24.795 IST ]
[OsUtilsBase.execProgInheritAddEnvNReturnOutput:2265] API
execProgInheritAddEnvReturnOutput invoked
[main] [ 2025-07-28 14:21:25.887 IST ]
[OsUtilsBase.execProgInheritAddEnvNReturnOutput:2271] Exec prog return code:
1
[main] [ 2025-07-28 14:21:25.887 IST ] [KfodUtil.kfodOutput:393] Kfod result
KFOD-00300: OCI error [-1] [OCI error] [-1]
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

In a multi-user access enabled system, ensure that the user name has atleast two characters.

Bug Number

This issue is tracked with Oracle bug 38259329.

Free space issue during database patching

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

Problem Description

When patching the database or dbhome on Oracle Database Appliance, the datapatch sanity check or the datapatch application may fail because of insufficient free space for TEMP tablespace.

Failure Message

The following error message may be displayed in the `sqlpatch_debug.log`:

```
ORA-01652: unable to extend temp segment by 128 in tablespace TEMP_ENC
```

Or, in the `sanity_checks.log`:

```
Check: Tablespace Status - ERROR
```

Command Details

```
# odacli update-dbhome  
# odacli update-database
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Extend tablespace `TEMP_ENC` and then resume the patching operation using the command `odacli update-database`.

```
alter database tempfile 4 resize 400M;  
alter session set container=CHSTPDB;  
alter database tempfile 5 resize 400M;
```

Bug Number

This issue is tracked with Oracle bug 37616088.

Error in DB system after server patching

After patching the server on Oracle Database Appliance, an error may be encountered on the DB system.

Failure Message

The following error message is displayed:

```
DCS-10172:DCS infrastructure is not ready: The infrastructure is still  
initializing
```

Command Details

Any command requiring the DCS infrastructure, such as:

```
# odacli update-server
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. On the DB system, stop the DCS agent service:

```
# systemctl stop initdcsagent
```

2. Delete the entry `HWADDR=null` from the `/etc/sysconfig/network-scripts/ifcfg-ib*` configuration files:

```
# sed -i '/HWADDR=null/d' /etc/sysconfig/network-scripts/ifcfg-ib*
```

3. Restart the network service:

```
# systemctl restart network
```

4. Start the DCS agent service:

```
# systemctl start initdcsagent
```

5. Wait for about 5 minutes and then verify that the DCS agent infrastructure is initialized, and both Oracle HAMI members are ONLINE.

```
# /opt/oracle/dcs/hami/bin/hamictl.sh status
```

6. Verify that Oracle Clusterware service is online:

```
# CRS_HOME/bin/crsctl check cluster -all
*****
Node0:
CRS-4537: Cluster Ready Services is online
CRS-4529: Cluster Synchronization Services is online
CRS-4533: Event Manager is online
*****
Node1:
CRS-4537: Cluster Ready Services is online
CRS-4529: Cluster Synchronization Services is online
CRS-4533: Event Manager is online
*****
```

- If Oracle Clusterware is not online on any DB system, then restart Oracle Clusterware on that DB system:

```
# CRS_HOME/bin/crsctl stop crs -f
# CRS_HOME/bin/crsctl start crs
```

Bug Number

This issue is tracked with Oracle bug 38064361.

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, the kdump may fail to start during node restart, and an error message may be displayed.

Failure Message

There may be an error locating the `modules.dep` for the newly installed kernel, and the following error message is displayed:

```
# systemctl status kdump -l
kdump.service - Crash recovery kernel arming
   Loaded: loaded (/usr/lib/systemd/system/kdump.service; enabled; vendor
   preset: enabled)
   Active: failed (Result: exit-code) since Tue 2024-10-15 11:51:15 IST; 8min
   ago
     Process: 6280 ExecStart=/usr/bin/kdumpctl start (code=exited, status=1/
   FAILURE)
    Main PID: 6280 (code=exited, status=1/FAILURE)

Oct 15 11:51:12 systemd[1]: Starting Crash recovery kernel arming...
Oct 15 11:51:12 kdumpctl[6471]: kdump: No kdump initial ramdisk found.
Oct 15 11:51:12 kdumpctl[6471]: kdump: Rebuilding /boot/
   initramfs-5.4.17-2136.335.4.el8uek.x86_64kdump.img
Oct 15 11:51:13 kdumpctl[6566]: kdump: Warning: There might not be enough
   space to save a vmcore.
Oct 15 11:51:13 kdumpctl[6566]: kdump:           The size of /dev/mapper/
   VolGroupSys-LogVolRoot should be greater than 393610208 kilo bytes.
Oct 15 11:51:15 dracut[8055]: Executing: /usr/bin/dracut --add kdumpbase --
   quiet --hostonly --hostonly-cmdline --hostonly-il8n --hostonly-mode strict --
   hostonly-nics -o "plymouth dash resume ifcfg earlykdump" --compress=xz --
   mount "/dev/mapper/VolGroupSys-LogVolRoot /sysroot ext4 rw,relatime,nofail,x-
   systemd.before=initrd-fs.target" --no-hostonly-default-device --add-
   device /dev/md0 -f /boot/initramfs-5.4.17-2136.335.4.el8uek.x86_64kdump.img
   5.4.17-2136.335.4.el8uek.x86_64
Oct 15 11:51:15 kdumpctl[7997]: dracut: /lib/modules/
   5.4.17-2136.335.4.el8uek.x86_64//modules.dep is missing. Did you run depmod?
Oct 15 11:51:15 dracut[8055]: /lib/modules/5.4.17-2136.335.4.el8uek.x86_64//
   modules.dep is missing. Did you run depmod?
Oct 15 11:51:15 kdumpctl[6471]: kdump: mkdumprd: failed to make kdump initrd
Oct 15 11:51:15 kdumpctl[6471]: kdump: Starting kdump: [FAILED]
Oct 15 11:51:15 systemd[1]: kdump.service: Main process exited, code=exited,
```

```
status=1/FAILURE
Oct 15 11:51:15 systemd[1]: kdump.service: Failed with result 'exit-code'.
Oct 15 11:51:15 systemd[1]: Failed to start Crash recovery kernel arming.
```

Command Details

```
# odacli update-server
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Restart the kdump service:

```
# systemctl restart kdump

# systemctl status kdump -l
kdump.service - Crash recovery kernel arming
   Loaded: loaded (/usr/lib/systemd/system/kdump.service; enabled; vendor preset: enabled)
   Active: active (exited) since Sat 2024-10-19 09:34:23 IST; 8s ago
   Process: 2028 ExecStart=/usr/bin/kdumpctl start (code=exited, status=0/SUCCESS)
   Main PID: 2028 (code=exited, status=0/SUCCESS)

Oct 19 09:34:21 dracut[2762]: rd.lvm.lv=VolGroupSys/LogVolRoot
Oct 19 09:34:21 dracut[2762]: rd.md.uuid=1e7140f4:2f5386a9:3093dd8d:ee3b9b29
Oct 19 09:34:22 dracut[2762]: *** Install squash loader ***
Oct 19 09:34:22 dracut[2762]: *** Squashing the files inside the initramfs ***
Oct 19 09:34:23 dracut[2762]: *** Squashing the files inside the initramfs done ***
Oct 19 09:34:23 dracut[2762]: *** Creating image file '/boot/initramfs-5.4.17-2136.335.4.el8uek.x86_64kdump.img' ***
Oct 19 09:34:23 dracut[2762]: *** Creating initramfs image file '/boot/initramfs-5.4.17-2136.335.4.el8uek.x86_64kdump.img' done ***
Oct 19 09:34:23 kdumpctl[2104]: kdump: kexec: loaded kdump kernel
Oct 19 09:34:23 kdumpctl[2104]: kdump: Starting kdump: [OK]
Oct 19 09:34:23 systemd[1]: Started Crash recovery kernel arming.
```

Bug Number

This issue is tracked with Oracle bug 36998253.

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 Oracle Database Appliance server, 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 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 19.30, if the Security Technical Implementation Guidelines (STIG) V1R2 is already deployed, then when you patch to 19.30 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 19.30, 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 19.30.0.0.0 -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 19.30.0.0.0 -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.

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.

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 provisioning bare metal system](#)
When provisioning Oracle Database Appliance bare metal system, an error may be encountered.
- [Error in creating database home](#)
When creating a database home on Oracle Database Appliance, an error may be encountered.
- [Error in creating DB system](#)
When creating a DB system, 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 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 provisioning bare metal system

When provisioning Oracle Database Appliance bare metal system, an error may be encountered.

Problem Description

When provisioning Oracle Database Appliance bare metal system, the operation may fail at the `Update Network` task.

Failure Message

```
DCS-10001:Internal error encountered: Not able to retrieve result back for the task.
```

Command Details

```
# odacli create-appliance
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Clean up both bare metal system nodes:

```
/opt/oracle/oak/onecmd/cleanup.pl
```

2. Retry the provisioning operation:

```
odacli create-appliance -r provisioning_json_location
```

Bug Number

This issue is tracked with Oracle bug 38981924.

Error in creating database home

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

Problem Description

When provisioning the database home, you run the `odacli create-dbhome` or `odacli create-prepatchreport` command, an error may be encountered due to a temporary lock of the `/u01/app/oraInventory/` directory.

Failure Message

When you run the `odacli create-prepatchreport` command, the following error message may be displayed:

```
DCS-10267 - failed to run the patch precheck with Oracle FPP for Oracle home  
ID dbhome_ID For input string: "dbhome_name"
```

When you run the `odacli create-dbhome` command, the following error message may be displayed:

```
DCS-10001:Internal error encountered: Failed to run create dbhome  
dbhome_name : null
```

Command Details

```
# odacli create-dbhome  
# odacli create-prepatchreport
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Delete the partially created atabase home using the `odacli delete-dbhome` command and run the `odacli create-prepatchreport` or `odacli create-dbhome` command again.

Bug Number

This issue is tracked with Oracle bug 38143200.

Error in creating DB system

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

Problem Description

When you create a DB system on Oracle Database Appliance, the following error may be encountered:

```
DCS-10001:THE CONNECTION IS CLOSED
```

This error may occur when the bare metal system is provisioned with NTP configured, or there is a time difference between bare metal system and the standard NTP server, or the DB system is created after NTP is configured.

Failure Message

```
[DB System n1 creation] - DCS-10001:Internal error encountered: Job  
'Provision DB System 'n1'' (f91fd1db-78ec-452d-bcdb-975947849370) failed.
```

Command Details

```
odacli create-dbsystem
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Provision the bare metal system without configuring NTP.

If there is a time difference between the bare metal system and the standard NTP server, then add several minutes to the current date.

Enable chrony.

1. Before enabling chrony, add or update the chrony configuration as follows:

```
-----  
# cat /etc/chrony.conf  
server 10.246.6.36 iburst  
driftfile /var/lib/chrony/drift  
makestep 1.0 -1  
rtcsync  
logdir /var/log/chrony  
-----
```

2. Run the systemctl command to enable and start chronyd service:

```
date;  
systemctl enable chronyd  
systemctl start chronyd  
systemctl status chronyd  
sleep 10;  
date;
```

3. Create DB system with NTP configured.

Bug Number

This issue is tracked with Oracle bug 37166091.

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/KvEl6/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 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 configuring Oracle Data Guard](#)
When configuring Oracle Data Guard on Oracle Database Appliance, an error may be encountered.
- [Error in changing password of Oracle Key Vault TDE-enabled database](#)
When changing the password of an Oracle Key Vault TDE-enabled database on Oracle Database Appliance, an error may be encountered.
- [Error in interconnect network](#)
DCS agent may not be able to run jobs because of an interconnect network issue.

- [Error in configuring multiple standby databases on Oracle Data Guard](#)
When configuring multiple standby databases for Oracle Data Guard on Oracle Database Appliance, an error may be encountered.
- [Error in upgrading Oracle Data Guard](#)
When upgrading Oracle Data Guard, an error may be encountered.
- [Error in creation of Oracle Key Vault TDE-enabled database](#)
When creating an Oracle Key Vault TDE-enabled database on Oracle Database Appliance, an error may be encountered.
- [Error in deleting a TDE-enabled database](#)
When deleting a TDE-enabled database on Oracle Database Appliance, 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 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 an Oracle Database Appliance for Oracle Database 23ai database with Release Update 23.8, the operation may fail because of missing `tnsnames.ora` file.

Failure Message

When the `odacli configure-dataguarde` command is run, the following error message is displayed:

```
DCS-10003:File '/u01/app/oracle/product/23.0.0.0/dbhome_1/network/admin/  
tnsnames.ora' does not exist
```

Command Details

```
odacli configure-dataguard
```

Hardware Models

All Oracle Database Appliance hardware models high-availability deployments

Workaround

Create the `tnsnames.ora` file in the location `DBHOME/network/admin/tnsnames.ora` of the database that has this issue, and add a TNS entry for it.

For example, add a database with database unique name `testdb` on the host `testhost` as follows:

```
cat /u01/app/oracle/product/23.0.0.0/dbhome_1/network/admin/tnsnames.ora
testdb=
  (DESCRIPTION=
    (ADDRESS = (PROTOCOL = TCP)(HOST = testhost)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = testdb.example)
    )
  )
```

Bug Number

This issue is tracked with Oracle bug 38132893.

Error in changing password of Oracle Key Vault TDE-enabled database

When changing the password of an Oracle Key Vault TDE-enabled database on Oracle Database Appliance, an error may be encountered.

Problem Description

When changing the password of Oracle 19c Enterprise Edition High-Availability and Oracle RAC One Node databases, created using Oracle Key Vault server configuration object, whose TDE keys are stored on Oracle Key Vault, the operation may fail.

Failure Message

```
Modify databaseDCS-12734:OKV Endpoint Utility command "okvutil changepwd" ran
with failure: Failed to change TDE password in the SSL wallet: bash: /etc/OKV/
db_unqie_name/okvversion/bin/okvutil: No such file or directory
```

Command Details

```
# odacli modify-database -n db_name -ctp
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Run these steps on the newly-created database, before you run any other operation. For multi-user access enabled or multi-user access enabled passwordless environment, run steps 1, 2, and 3 as the okvuser who created the database. Run step 4 as the DB user. For non-multi user access environment, run steps 1, 2, 3, and 4 as the oracle user.

1. Create the endpoint corresponding to inactive instance using below command.

```
/etc/OKV/okv_server_config_name/bin/okv admin endpoint create --endpoint
db_name_remote_node_number_on_cluster_name --description "Endpoint of
database db_name" --type ORACLE_DB --platform LINUX64 --strict-ip-check
TRUE
```

2. Check the status of the endpoint created in step 1 using the following command. If the status is in PENDING state, then wait for some time and recheck the status again. Proceed to further steps only, if the status of the endpoint is ACTIVE:

```
/etc/OKV/okv_server_config_name/bin/okv admin endpoint check-status --
endpoint db_name_remote_node_number_on_cluster_name
```

3. Set the default wallet of the endpoint created in step 1 using the following command.

```
/etc/OKV/okv_server_config_name/bin/okv manage-access wallet set-default --
wallet db_unique_name_on_cluster_name --endpoint
db_name_remote_node_number_on_cluster_name
```

4. Update the endpoint software of only the newly-created database using the odacli update-okvendpoints -es -oj *absolute_path_to_JSON_file* command.

```
cat /tmp/update.json
[
  {
    "dbName" : "eedb2"
  }
]

odacli update-okvendpoints -es -oj /tmp/update.json
```

5. Retry the change of TDE password operation.

Bug Number

This issue is tracked with Oracle bug 38987593.

Error in interconnect network

DCS agent may not be able to run jobs because of an interconnect network issue.

Problem Description

When you run the odacli ping-agent command, an error may be encountered.

Failure message

```
DCS-10033:Service DCS agent is down.
```

Command Details

```
# odacli ping-agent
```

Hardware Models

All Oracle Database Appliance hardware models with high-availability

Workaround

Do the following:

1. Validate that the issue is due to interconnect not working. From the first node, run the command:

```
# arping -I icbond0 xx.xx.xx.xx -c 10
```

The output is similar to the following:

```
ARPING xx.xx.xx.xx from xx.xx.xx.xx icbond0  
Sent 10 probes (10 broadcast(s))  
Received 0 response(s)
```

2. On both nodes, modify the `/etc/sysconfig/network-scripts/ifcfg-icbond0` file to add `arp_interval=100` to `BONDING_OPTS`. The update is as follows:

```
BONDING_OPTS="mode=active-backup miimon=100 primary=plp1 arp_interval=100"
```

3. On both nodes, restart the network:

```
# systemctl restart network
```

4. On both nodes, restart the agent and wait for a few minutes:

```
# systemctl restart initdcsagent
```

Bug Number

This issue is tracked with Oracle bug 37611921.

Error in configuring multiple standby databases on Oracle Data Guard

When configuring multiple standby databases for Oracle Data Guard on Oracle Database Appliance, an error may be encountered.

Problem Description

When you configure Oracle Data Guard for multiple standby databases, that is, two standby, the operation fails at the step `Update Data Guard status (Existing standby site)` but

Oracle Data Guard is configured successfully with no issue. The command `DGMGRL> SHOW CONFIGURATION;` shows success status for all standby databases. The command `odacli list-dataguardstatus` on all sites shows correct Oracle Data Guard information.

Failure Message

The following error message is displayed:

```
DCS-10001:Internal error encountered: Unable to update dg config
```

The `dcs-agent.log` shows the temporary error:

```
"Error: ORA-16532: Oracle Data Guard broker configuration does not exist."
```

Hardware Models

All Oracle Database Appliance hardware models high-availability deployments

Workaround

Ignore the error. Oracle Data Guard was actually configured successfully.

Bug Number

This issue is tracked with Oracle bug 37780488.

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 `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 creation of Oracle Key Vault TDE-enabled database

When creating an Oracle Key Vault TDE-enabled database on Oracle Database Appliance, an error may be encountered.

Problem Description

Creation of Oracle Key Vault TDE database on an Oracle Key Vault server whose version is earlier than the version of the existing Oracle Key Vault PKCS library `/opt/oracle/extapi/64/hsm/oracle/1.0.0/liborapkcs.so` on the system may fail.

Failure Message

```
DCS-10164:Failed to configure TDE: Failed to set TDE Master Encryption key:  
ERROR at line 1:  
ORA-28353: failed to open wallet
```

Command Details

```
# odacli create-database -n db_name -t -kt OKV -ocp  
absolute_path_to_okvclient.jar
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Remove the later version of Oracle Key Vault PKCS library `/opt/oracle/extapi/64/hsm/oracle/1.0.0/liborapkcs.so` and retry the operation.

Bug Number

This issue is tracked with Oracle bug 38175259.

Error in deleting a TDE-enabled database

When deleting a TDE-enabled database on Oracle Database Appliance, an error may be encountered.

Problem Description

When you delete a TDE-enabled database that uses Oracle Key Vault release 21.8 to store TDE keys, then an error message may be displayed during the `OKV delete` task.

Failure Message

```
DCS-10001:Internal error encountered: Failed to delete Wallet <wallet_name> :
okv.log.0 (Permission denied)
{
  "result" : "Failure",
  "message" : "Insufficient privileges on wallet"
}.
```

Command Details

```
# odacli delete-database -n db_name
```

Hardware Models

All Oracle Database Appliance hardware models

Workaround

Follow these steps:

1. Log into as the Oracle Key Vault administrator to the Oracle Key Vault server where the Oracle Key Vault wallet is present.
2. Navigate to the **Keys & Wallets** tab.
3. Click the edit icon for the wallet that you want to delete.
4. In the Select Endpoint/User Group section, select the Type as **Users** from the drop down list.
5. Select the user that owns the Oracle Key Vault wallet.
6. In the Select Access Level section, select **Read and Modify**, and then **Manage Wallet**.
7. Click **Save**.
8. Delete the database.

Bug Number

This issue is tracked with Oracle bug 36640379.

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.