

Oracle® Database Vault

Release Notes

10g Release 2 (10.2.0.2) for Linux

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These Release Notes describe issues you may encounter with Oracle Database Vault 10g Release 2 (10.2.0.2). Oracle Database Vault is installed using the Oracle Universal Installer (OUI). Silent installation using a response file is not supported. The Oracle Database Vault installation is covered in detail in the *Oracle Database Vault Installation Guide*.

Note: Oracle Database Vault (10.2.0.2) has been released for Red Hat Enterprise Linux 3.0 (Update 3 or later). It would be later released for Solaris 9, Solaris 10, and SUSE Linux Enterprise Server 9.0.

This document may be updated after it is released. To check for updates to this document and to view other Oracle documentation, see the Documentation section on the Oracle Technology Network (OTN) Web site:

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Installation Issues

This section describes the known issues pertaining to installation.

Enterprise Manager Failed in DBCA During an Add RAC Node Operation

Bug 5109473

Having installed 10.2.0.2 CRS on a two node cluster, and having installed a single node RAC Database, then having run `RAChome/oui/bin/addNode.sh` to add a node to the second node, then having run NETCA to add a listener on the second node, then while running DBCA to add an instance onto the second node, the following warning prompt displays:

Enterprise manager configuration failed due to the following error -

Database instance unavailable. Refer to the log file at
/scratch/aime/102DV/060315/d1/dvn3/cfgtoollogs/dbca/dvn3/emConfig.log
for more details.
You can retry configuring this database with Enterprise Manager later
by manually running /scratch/aime/102DV/060315/d1/dvn3/bin/emca script.

When you perform a `crs_stat -t` command, you will see that the instance of the second node is not up.

When you inspect the contents of the `emConfig.log` file, you will see a log entry similar to the following entry:

```
Mar 21, 2006 4:38:55 PM oracle.sysman.emcp.util.GeneralUtil initSQLEngine
CONFIG: ORA-01031: insufficient privileges

oracle.sysman.assistants.util.sqlEngine.SQLFatalErrorException: ORA-01031:
insufficient privileges
....
SEVERE: Database instance unavailable.
Refer to the log file at
/scratch/aime/102DV/060315/d1/dvn3/cfgtoollogs/dbca/dvn3/emConfig.log for
more details.
Mar 21, 2006 4:38:55 PM oracle.sysman.emcp.EMConfig perform
CONFIG: Stack Trace:
oracle.sysman.emcp.exception.EMConfigException: Database instance
unavailable.
```

This is a problem with DBCA not passing a required privilege to EMCP when the user is not OS-authenticated while performing an add instance, delete instance, delete database, or configure database operation.

Use the following workaround for this bug:

1. Disable Database Vault.
2. Perform the Add Node operations.
3. Enable Database Vault.

See Also:

- Refer to *Oracle Database Vault Administrator's Guide* for more information on enabling and disabling Database Vault.
- Refer to *Oracle Database Vault Installation Guide* for more information on adding a RAC node.

DVCA Fails If the SID Is Longer than 8 Characters

Bug 5258820

Running Database Vault Configuration Assistant (DVCA) manually, after creating a new database in the Database Vault home, fails if the Oracle System Identifier (SID) for the database is longer than 8 characters.

The following steps reproduce the bug:

1. Use Database Configuration Assistant (DBCA) to create a new database in an existing Database Vault home.
2. Run DVCA on the newly created database:

```
$ORACLE_HOME/bin/dvca -action option -oh oracle_home -jdbc_str
```

```

jdbc_connection_string -sys_passwd SYS_password -owner_account
DV_owner_account_name -owner_passwd DV_owner_account_password
[-acctmgr_account DV_account_manager_account_name] [-acctmgr_passwd
DV_account_manager_password] [-logfile ./dvca.log] [-silent]
[-nodecrypt] [-lockout] [-languages
{"en"}, {"de"}, {"es"}, {"fr"}, {"it"}, {"ja"}, {"ko"}, {"pt_BR"}, {"zh_CN"}, {"zh_TW"}]]

```

See Also: *Oracle Database Vault Installation Guide* for more information on running the DVCA command.

The reason for the bug is that the Oracle Net service name in the `tnsnames.ora` (`$ORACLE_HOME/network/admin/tnsnames.ora`) file is truncated to 8 characters.

The workaround for the bug is to change the truncated Net service name in the `tnsnames.ora` file to its correct value. For example, say the SID for the database is `ORACLEDB90`, and the entry in `tnsnames.ora` appears as:

```
ORACLEDB = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST ....
```

Replace the truncated entry in the `tnsnames.ora` file with the correct entry:

```
ORACLEDB90 = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST ....
```

Database Vault Installation Fails When Launched from a RAC Node Not Having a Database Instance

Bug 5295609

If the Database Vault installation is launched from an Oracle Real Application Clusters (RAC) node that does not contain a database instance, then the installation fails. For example, if a RAC installation contains two nodes, and only one of the nodes has a database instance, then you cannot launch the Database Vault installer from the node that does not have the database instance.

The workaround is to launch the Database Vault installer from a node that has a database instance. Alternatively, you can create a database instance on the node from which you wish to launch the Database Vault installation.

Installing a Custom Database in an Existing Database Vault Home Fails

Bug 5334101

When installing a new custom database in an existing Database Vault home using Database Configuration Assistant (DBCA), the installation fails with the following error:

```

ORA-00604: error occurred at recursive SQL level 1
ORA-01031: insufficient privileges
ORA-06512: at "XDB.DBMS_XDB", line 73
ORA-06512: at line 319

```

The workaround is to disable Database Vault before installing a custom database in an existing Database Vault home. Reenable Database Vault after installing the database.

See Also: *Oracle Database Vault Administrator's Guide* for more information on enabling and disabling Database Vault.

Select Existing Database Screen Displays Incorrect Prerequisites

Bug 5247408

When installing Oracle Database Vault using Oracle Universal Installer (OUI), the Select Existing Database screen and the associated help screen list an incorrect set of prerequisites. The existing database into which Oracle Database Vault is installed must have the following components installed:

- Oracle Label Security (OLS) version 10.2.0.2.0
- Oracle Enterprise Manager Console DB 10.2.0.2.0

See Also: *Oracle Database Vault Installation Guide* for a complete list of preinstallation requirements

Frequently Asked Questions on Installation

This section covers some of the frequently asked questions related to Database Vault installation. Oracle Database Vault installation is covered in detail in the *Oracle Database Vault Installation Guide*.

The installer does not detect my existing Oracle Database Enterprise Edition 10g Release 2 (10.2.0.2) instance. What should I do?

To allow the installer to find the database instance information, you should check the following:

- The database home has Oracle Enterprise Manager Console DB 10.2.0.2.0 installed.
- `/etc/oratab` has an entry for the database.
- All database names listed in `/etc/oratab` have unique system identifier (SID) names.
- The file, `/etc/orainst.loc` exists.
- The `oraInventory` location is set in the `/etc/orainst.loc` file.
- The `oraInventory` location set in `/etc/orainst.loc` is the same as the 10.2.0.2 Enterprise Edition database's `oraInventory` location.
- The 10.2.0.2 database home does not have Oracle Database Vault in it.
- The 10.2.0.2 database home does not contain an Automatic Storage Management (ASM) instance.

I have installed Oracle Database Vault into an Oracle home that has multiple databases. How do I secure the other databases in the Oracle home?

You would need to run Database Vault Configuration Assistant (DVCA) manually on the other databases. Refer to the *Oracle Database Vault Installation Guide* for detailed instructions.

I have installed Oracle Database Vault on a Real Application Clusters (RAC) database instance. How do I secure the other nodes in the cluster?

You need to run DVCA manually on the other RAC nodes. Refer to the *Oracle Database Vault Installation Guide* for detailed instructions.

Manually Deploying the DVA Application

You can manually deploy Database Vault Administrator (DVA) to the following Oracle Application Server Containers for J2EE (OC4J) home:

```
$ORACLE_HOME/oc4j/j2ee/home
```

Use the following steps to manually deploy the DVA application:

1. Edit the file, `$ORACLE_HOME/oc4j/j2ee/home/config/server.xml`. Enter the following line just before the last line that reads, `</application-server>`:

```
<application name="dva" path="$ORACLE_HOME/dv/jlib/dva_webapp.ear"
auto-start="true" />
```

For example:

```
<application name="dva"
path="/u00/app/oracle/oracle/product/dv12/dv/jlib/dva_webapp.ear"
auto-start="true" />
```

2. Edit the file, `$ORACLE_HOME/oc4j/j2ee/home/config/http-web-site.xml`. Enter the following line just above the last line that reads, `</web-site>`:

```
<web-app application="dva" name="dva_webapp" root="/dva" />
```

3. Edit the file, `$ORACLE_HOME/oc4j/j2ee/home/config/global-web-application.xml`. Search for `<servlet-class>oracle.jsp.runtimev2.JspServlet</servlet-class>`. Uncomment the following lines after this:

```
<init-param>
  <param-name>main_mode</param-name>
  <param-value>justrun</param-value>
</init-param>
```

4. Create the directory, `$ORACLE_HOME/dv/jlib/sysman/config`.

```
mkdir -p $ORACLE_HOME/dv/jlib/sysman/config
```

5. Create the database connection configuration file, `emoms.properties`, in the configuration directory that you just created. Add the following lines to the file:

```
oracle.sysman.emSDK.svlt.ConsoleMode=standalone
oracle.sysman.eml.mntr.emdRepRAC=FALSE
oracle.sysman.eml.mntr.emdRepDBName=ORACLE_SID
oracle.sysman.eml.mntr.emdRepConnectDescriptor=TNS_connection_string
```

Note:

- `oracle.sysman.eml.mntr.emdRepRAC` should be set to `TRUE` for a Real Application Clusters (RAC) database.
- For `oracle.sysman.eml.mntr.emdRepConnectDescriptor`, you can use an alias from `$ORACLE_HOME/network/admin/tnsnames.ora`. Alternatively, you can use the following syntax:

```
oracle.sysman.eml.mntr.emdRepConnectDescriptor=(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=HOSTNAME)(PORT=PORT)))(CONNECT_DATA=(SERVICE_NAME=ORACLE_SID)))
```

6. Start OC4J. Before starting OC4J, ensure that the correct environment variables are set. For example :

```
ORACLE_SID=orcl
export ORACLE_SID
ORACLE_HOME=/u00/app/oracle/product/10.2/dv
export ORACLE_HOME
LD_LIBRARY_PATH=$ORACLE_HOME/bin:$ORACLE_HOME/lib:$ORACLE_HOME/jdbc/lib
export LD_LIBRARY_PATH
PATH=$ORACLE_HOME/bin:$ORACLE_HOME/jdk/bin:$PATH
export PATH
```

Note: `LD_LIBRARY_PATH` must be set to use the OCI-based JDBC libraries.

Start OC4J using the following syntax:

```
${ORACLE_HOME}/jdk/bin/java -Djava.awt.headless=true
-DEMROOT=${ORACLE_HOME}/dv/jlib -jar
${ORACLE_HOME}/oc4j/j2ee/home/oc4j.jar -userThreads -config
${ORACLE_HOME}/oc4j/j2ee/home/config/server.xml
```

7. You can now access the DVA application. The HTTP port defaults to 8888 for this environment. Use the following URL:

```
http://hostname:8888/dva
```

Documentation Corrections

The Database Vault Configuration Assistant (DVCA) command syntax for enabling and disabling Oracle Database Vault is incorrect in Appendix B of the *Oracle Database Vault Administrator's Guide*.

The correct command to enable Oracle Database Vault is as follows:

```
$ORACLE_HOME/bin/dvca -silent -action enable -service service_name
-sys_passwd SYS_password -owner_account DV_owner_account_name -owner_passwd
owner_password -nodecrypt [-logfile ./dvca.log]
```

Where:

- `silent`: Required if you are not running DVCA in an xterm window
- `action`: The action to perform. `enable` enables Oracle Database Vault. `disable` disables Oracle Database Vault.
- `service`: The alias for a connection in the `tnsnames.ora` file. Used to connect to a listener/database. For example, `orcl`.
- `sys_passwd`: Password for user `SYS`
- `owner_account`: Oracle Database Vault Owner account name
- `owner_passwd`: Oracle Database Vault owner account password
- `nodecrypt`: Reads plaintext passwords as passed on the command line. You must use this option if you are passing plaintext passwords to the command.
- `logfile`: Optionally, specify a log file name and location. You can enter an absolute path or a path that is relative to the location of the `$ORACLE_HOME/bin` directory.

The correct command to disable Oracle Database Vault is as follows:

```
$ORACLE_HOME/bin/dvca -silent -action disable -service service_name
-sys_passwd SYS_password -owner_account DV_owner_account_name -owner_passwd
owner_password -nodecrypt [-logfile ./dvca.log]
```

Note: You need to set the appropriate environment variables for Oracle products before running the DVCA utility.

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