Oracle® Database Vault

Release Notes

10*g* Release 2 (10.2.0.5) for Solaris Operating System (SPARC 64-Bit)

B31293-05

May 2010

These Release Notes describe issues you may encounter with Oracle Database Vault 10*g* Release 2 (10.2.0.5). The Oracle Database Vault installation is covered in detail in the *Oracle Database Vault Installation Guide*.

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:

`http://www.oracle.com/technology/documentation/`

This document contains the following sections:

Installation Issues and Recommendations

This section describes the known issues pertaining to installation. It also provides the workarounds that you can use.

Cannot Install Oracle Database Vault in a Data Guard Environment

Bug 5577503

The Database Vault installer fails to install Database Vault in an existing physical standby database.

You can create a new physical standby database by using the following steps:

1. Install Database Vault on the primary database.
2. Create a physical standby database using a hot backup of the primary database. This backup should include the Oracle home.
3. Set up communications between the primary and the physical standby database. Redo logs communicate changes from the primary database to the standby database.

See Also:

- Article ID 754065.1, titled "Installing Database Vault in a Data Guard Environment" on My Oracle Support (formerly Oracle*MetaLink*):

  http://support.oracle.com

- *Data Guard Concepts and Administration Guide* for more information on creating a physical standby database

Enterprise Manager Does Not Start Automatically

Bug 5613521

After installing Database Vault on a database, and running the postinstallation steps on the nodes, you get an error when trying to access Enterprise Manager.

Also, when you try to check the status of `dbconsole` using the `emctl status dbconsole` command, you get a message saying that the EM daemon is not running even though the process is running.

The workaround is to manually restart the `dbconsole` process using the following commands:

```
$ORACLE_HOME/bin/emctl stop dbconsole
$ORACLE_HOME/bin/emctl start dbconsole
```

Unable to Log In to Enterprise Manager As the SYS User After Database Vault Installation

Bug 6630108

The `SYS` user is unable to log in to Enterprise Manager after installing Database Vault on an Oracle database. The following error is encountered:

```
ORA-01031: insufficient privileges
```

You need to regenerate the password file, using the `orapwd` utility, to reenable the `SYS` user to connect as `SYSDBA`. Use the following syntax to enable `SYSDBA` logins:

```
orapwd file=password_filename password=password [entries=users] force=y nosysdba=n
```

See Also: *Oracle Database Vault Installation Guide* for more information on using the `orapwd` utility

Database Instance and Listener Do Not Start Automatically on the Remote Node After Database Vault Installation

Bug 6630191

After you install Database Vault, the database instances and listeners on the remote nodes do not start automatically. You must start these manually.

This is expected behavior. The `DVCA` utility configures the local node, and starts the database instance and listener processes on the local node. You need to start these processes manually on each of the remote nodes.

Cloned Database Vault Home Contains Invalid Objects

Bug 6658315

The following steps are used to create a cloned Database Vault instance:

1. Install Oracle Database Vault 10*g* Release 2 (10.2.0.5) in the first Oracle home.
2. Clone the first instance to create a second Oracle home.
3. Run Net Configuration Assistant (NetCA) and Database Configuration Assistant (DBCA) to configure a listener and database for the cloned instance.
4. Run DBCA again to configure Oracle Label Security (OLS) for the cloned instance.
5. Run Database Vault Configuration Assistant (DVCA) as follows:

```
$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 -nodecrypt
```

The following SQL statement shows that the cloned Database Vault instance contains invalid objects:

```
SQL> select count(*) from all_objects where status = 'INVALID';

  COUNT(*)
----------
        45
```

The workaround is to run the `utlrp.sql` script. This script recompiles all `PL/SQL` modules that might be in an invalid state, including packages, procedures, and types. Use the following commands to run the `utlrp.sql` script:

```
cd $ORACLE_HOME/rdbms/admin
sqlplus SYS "AS SYSDBA"
Enter password:
SQL> @utlrp.sql
```

Error Occurs When Oracle Database Vault Security Is Configured on a Remote Node

Bug 6140164

After you add a second node to a single-node Oracle Real Application Clusters (Oracle RAC) installation, the following error occurs when you try to configure Database Vault security for the second node:

```
ORA-32001: write SPFILE requested but no SPFILE specified at startup
```

The following steps reproduce the bug:

1. Install Oracle Cluster Ready Services (CRS) on a 2-node cluster.
2. Install Oracle Database Vault on the first node.
3. Run the `addnode.sh` script on the first node to add the second node.
4. Configure the database listener and database instance for the second node.
5. Run the following `ALTER SYSTEM` statements on the second node:

```
ALTER SYSTEM SET AUDIT_SYS_OPERATIONS=TRUE SCOPE=SPFILE;
ALTER SYSTEM SET OS_ROLES=FALSE SCOPE=SPFILE;
ALTER SYSTEM SET RECYCLEBIN='OFF' SCOPE=SPFILE;
ALTER SYSTEM SET REMOTE_LOGIN_PASSWORDFILE='EXCLUSIVE' SCOPE=SPFILE;
ALTER SYSTEM SET SQL92_SECURITY=TRUE SCOPE=SPFILE;
ALTER SYSTEM SET OS_AUTHENT_PREFIX='' SCOPE=SPFILE;
```

The workaround is to run the following steps before running the `addnode.sh` script in Step 3:

> **Note:** These steps must be run from the first node.

1. Shut down the database.

   ```
   $ORACLE_HOME/bin/srvctl stop database -d db_name
   ```

2. Start the database with the `nomount` option.

   ```
   $ORACLE_HOME/bin/srvctl start database -d db_name -o nomount
   ```

3. Connect to the database `AS SYSDBA`.

   ```
   sqlplus SYS "AS SYSDBA"
   Enter password:
   ```

4. Create a server parameter file (`SPFILE`) using the traditional initialization parameter file (`PFILE`). The initialization parameter file is usually located at `$ORACLE_HOME/admin/db_name/pfile` for Optimal Flexible Architecture compliant databases.

   For example:

   ```
   SQL> CREATE SPFILE='SHARED_LOCATION/spfileORACLE_SID.ora'
        FROM 'PFILE=ORACLE_HOME/admin/db_name/pfile/initORACLE_SID.ora'
   ```

This statement reads the text initialization parameter file to create a server parameter file. You must have the or `SYSOPER` system privilege to run the `CREATE SPFILE` statement.

5. Shut down the database.

   ```
   $ORACLE_HOME/bin/srvctl stop database -d db_name
   ```

6. Clear the current contents of the initialization parameter file. Add the server parameter file location in the initialization parameter file:

   ```
   SPFILE = 'SHARED_LOCATION/spfileORACLE_SID.ora'
   ```

7. Restart the database.

   For example:

   ```
   $ORACLE_HOME/bin/srvctl start database -d db_name
   ```

Swap Space Requirement Prerequisite Test Fails

Bug 7506215

The Database Vault installer swap space requirement test may fail in some cases even when enough swap space is available.

The swap space required for installation should not exceed 16GB. In case the required swap space is shown as more than 16 GB, this warning can be safely ignored.

Usage Issues and Recommendations

This section discusses usage issues that you may encounter with Database Vault. It also provides the workarounds for these issues.

Accounts with DV_OWNER, DV_ADMIN, or DV_SECANALYST Role Cannot Use the ALTER USER Command

Bug 5161953

Accounts with the `DV_OWNER`, `DV_ADMIN`, or `DV_SECANALYST` role cannot run the following command:

```
ALTER USER user QUOTA UNLIMITED ON tablespace
```

The workaround is to `REVOKE` the role from the account, run the `ALTER USER` command, and then `GRANT` back the role to the account. This works if the account is not the `DV_OWNER` account that was created during installation. If the account is the DV_OWNER account created during installation, then you would need to use the following steps:

1. Disable the Database Vault command rule for the `ALTER USER` command.
2. Run the `ALTER USER` command.
3. Re-enable the Database Vault command rule for the `ALTER USER` command.

CREATE SESSION Privilege Is Controlled by the Data Dictionary Realm

Use the following steps to grant the `CREATE SESSION` privilege:

1. Temporarily disable the data dictionary realm.
2. Log in as the `SYSTEM` user.
3. Grant the `CREATE SESSION` privilege.
4. Enable the data dictionary realm.

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 10*g* Release 2 (10.2.0.5) 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 10.2.0.5.0 installed.

- For an Oracle Real Application Clusters (Oracle RAC) database, make sure that Cluster Ready Services (CRS) is running on all nodes.
- For an Oracle Real Application Clusters (Oracle RAC) database, make sure that the `srvctl` utility can be run from the Cluster Ready Services (CRS) home and the Oracle RAC database home.
- The file `inventory.xml` under `oraInventory/ContentsXML` correctly lists the Oracle home information including the node names (for Oracle RAC).
- `/etc/oratab` has an entry for the database. This entry is case-sensitive.
- 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 10.2.0.5 Enterprise Edition database's oraInventory location.
- The 10.2.0.5 database home does not have Oracle Database Vault in it.
- The 10.2.0.5 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 (Oracle RAC) database instance. How do I secure the other nodes in the cluster?

You need to configure Database Vault security on the other Oracle RAC nodes. Refer to the *Oracle Database Vault Installation Guide* for detailed instructions.

Miscellaneous Notes

This section contains miscellaneous notes not covered in the Oracle Database Vault documentation.

Snapshots and Materialized Views

The keyword `SNAPSHOT` is supported in place of `MATERIALIZED VIEW` for backward compatibility.

JOB_QUEUE_PROCESSES Initialization Parameter

The `JOB_QUEUE_PROCESSES` initialization parameter specifies the maximum number of processes that can be created for the execution of jobs. It specifies the number of job queue processes per instance.

This parameter must have a non-zero value. The default value for `JOB_QUEUE_PROCESSES` is 10.

Oracle Database Vault Effect on the DBA_REGISTRY Data Dictionary View

For all Oracle Database Vault 10.2.0.5 releases, disregard the DBA_REGISTRY data dictionary view output. This view normally displays information about the components loaded into the database. For these releases, the DBA_REGISTRY view does not update this view's contents.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at http://www.oracle.com/accessibility/.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/support/contact.html or visit http://www.oracle.com/accessibility/support.html if you are hearing impaired.

Oracle Database Vault Release Notes 10*g* Release 2 (10.2.0.5) for Solaris Operating System (SPARC 64-Bit)
B31293-05

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.