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Oracle Cluster Verification Utility
Linux x86 README File
(OTN Distribution Kit - Sept, 2012)
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1. Availability of CVU
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Welcome to the downloadable OTN distribution version of the Cluster Verification Utility (CVU).

The Cluster Verification Utility (CVU) is a utility distributed with Oracle Clusterware to assist in the verification of the components required to install and run Oracle Clusterware and Oracle Real Application Clusters (RAC). CVU was first released with Oracle Database 10g Release 2. CVU is available in the following three forms:

1. Installed in Oracle Clusterware home
2. Available in Oracle Clusterware DVD as packaged version
3. Available in Oracle Technology Network (OTN)

CVU is backward compatible to all the previous Oracle Clusterware and Oracle RAC releases up to 10g Release 1. This version of CVU supports 10g Release 1, 10g Release 2, 11g Release 1, and 11g Release 2 for Oracle Clusterware and RAC products.

For each verification command that supports the optional `-r` option to specify the supported Oracle release, the default release is assumed to be 11g Release 2. To perform verifications for any previous release, `'-r 10gR1'` or `'-r 10gR2'` or `'-r 11gR1'` must be specified. If the verifications are to be performed for a specific release earlier than 11g Release 2 then use of `-r` option can be avoided by setting the intended release value (`'10gR1'` or `'10gR2'` or `'11gR1'`) for `CV_ORACLE_RELEASE` property in CVU's configuration file, `cvu_config` (located under `<CVU installation root dir>/cv/admin` directory).

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2. CVU installation from OTN

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To install CVU from a zip file (cvupack.zip) downloaded from OTN:

1. Create a CVhome directory, for example: `"/home/<userid>/mycvhome"`. It should have at least 200MB of free disk space.
2. Unzip cvupack.zip into <CVhome> directory.
3. (Optional) Set the environmental variable CV_DESTLOC. This should point to a writable area on *all* nodes. When invoked, the tool will attempt to copy the necessary bits as required to this location. Make sure the location exists on all nodes and it has write permission for CVU user. It is strongly recommended that you set this variable. If this variable has not been set, CVU will use `"/tmp"` as the default.
4. Run clufy from <CVhome>/bin directory. To verify, typically run `/home/<userid>/mycvhome/bin/clufy`. This should show the usage.

NOTE:

For 'comp healthcheck' command, CVU uses JDBC to connect to the database to verify various database parameters for the best practices recommendation. In order for CVU to be able to connect to the database, a CVU specific user, 'cvusys', with a CVU specific role, 'cvusapp', must be created and granted select permissions on system tables. A sql script is included in <CVhome>/cv/admin/cvusys.sql to facilitate the creation of this user. Please create the user using this script on all the databases that are to be verified by CVU.

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3. Enhancements

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1. Fixed failure of VIP subnet checks when CVU is run second time
2. Fixed issue of CVU failing to detect ASM instance
3. Added a check to see all cluster interconnect interfaces have same MTU across all the nodes
4. Added a check to verify the connectivity of all the interfaces given a subnet or an interface

5. Added a check to verify subnet masks of same subnet id are same across all the nodes.
6. Made ASM checks more robust
7. Slewing option is in NTPD in not needed for 11.2 or later clusterware versions.
8. Added few more critical bug fixes to stabilize CVU apart from the above mentioned.

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4. Known Limitations

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- comp ocr no longer verifies logical integrity of OCR because this check requires super user privileges. It is recommended to verify logical integrity of OCR by running the command `<crs_home>/bin/ocrcheck` as a privileged user.
- When using, `-html` option for `'comp healthcheck'` to display the best practices report in HTML, CVU searches for a browser to use in the following order: `firefox`, `mozilla`, `opera`, `konqueror`, `epiphany`. Browser is looked up strictly in the order mentioned, no effort is made to determine a default browser. If a browser is found in the default location, it will be used regardless of the correctness of the browser. This behavior can be altered by specifying the absolute path of the browser binary through `CV_DEFAULT_BROWSER_LOCATION` property in CVU's configuration file, `cvu_config`(located under `<CVU installation root dir>/cv/admin` directory).

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5. References

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For detailed information on using CVU, refer to:

Oracle® Grid Infrastructure Installation Guide 11g Release 2 (11.2) for Linux

Oracle® Real Application Clusters Installation Guide 11g Release 2 (11.2) for Linux and UNIX

Oracle® Clusterware Administration and Deployment Guide 11g Release 2 (11.2)

For queries on CVU, refer to:

CVU FAQ on OTN

(http://www.oracle.com/technology/products/database/clustering/cvu/cvu_download_homepage.html)

