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Oracle Cluster Verification Utility
AIX README File
(OTN Distribution Kit - September 2008)
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1. Availability of CVU
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Welcome to the downloadable OTN distribution version of 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. CVU was first released with Oracle Clusterware 10g Release 2. CVU is available in the following three forms:

- 1) Available in Oracle Clusterware DVD as a packaged version
- 2) Installed in Oracle Clusterware home
- 3) Available on Oracle Technology Network (OTN) as a downloadable version. (http://www.oracle.com/technology/products/database/clustering/cvu/cvu_download_homepage.html)

For each verification command that supports the `-r` option, the supported Oracle release version can be specified as a value to this option in order to run the verifications for that Oracle version. The default release is assumed to be 11g Release 1 if the `-r` option is not specified. To perform verifications for a previous release, `'-r 10gR1'` or `'-r 10gR2'` must be specified depending on the release for which the verifications tests need to be run. The use of `-r` option on the command line can be avoided by setting the intended release value (10gR1 or 10gR2) for `CV_ORACLE_RELEASE` property in CVU's configuration file (location: `<CVU installation root dir>/cv/admin/cvu_config`).

CVU has limited backward compatibility to the previous release of Oracle Clusterware (10g Release 1). This distribution of CVU kit is only supported on the operating system versions supported by Oracle Real Application Clusters 11g Release 1 (refer to Section 2.7 "Checking the Software Requirements" of Oracle Clusterware Installation Guide 11g Release 1 (11.1) for AIX Based Systems (Part Number B28258-02))

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2. CVU installation from OTN
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Follow these steps to install CVU from a zip file (`cvupack%.zip`) downloaded from OTN:

1. Create a CVhome (say `/home/username/mycvhome`) directory. This filesystem should have at least 100MB of free disk space and should have write permissions for the CVU user.
2. Unzip `cvupack%.zip` into the `<CVhome>` directory.
 `$ cd /home/username/mycvhome`
 `$ unzip <download-dir>/cvupack.zip`

3. Running CVU from OTN installation

1. In order to run the verification on the various nodes in the cluster, CVU needs a writable area with the same path on each node in the cluster. CVU will copy necessary files to the remote nodes at this location for runtime use. By default, "/tmp" area will be used. If required to override this default, set the environment variable CV_DESTLOC to a suitable location that is available and writable by CVU user on all nodes in the cluster. It is strongly recommend that this environment variable CV_DESTLOC be set.

2. Run cluvfy from <CVhome>/bin directory. To verify, typically run

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$ /home/username/mycvhome/bin/cluvfy
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Invoking this command without any arguments or with incorrect arguments will display comprehensive usage information.

4. Enhancements

1. An error is reported if it is discovered that a user exists but the user IDs differ across the nodes.
2. The policy for declaring a discovered network interface as "private" has been refined. In a situation where an IP address for a gateway points back to the local node, the interface is declared as "private".
3. A warning is issued if different MTU values are found across the network interfaces.
4. For VIP, a gateway must exist on the network. A warning is issued if no gateway is found.
5. The verification of hard and soft resource limits for maximum open file descriptors is supported. These checks are performed as part of the validation of system requirements for Oracle Clusterware and Oracle Database installations.
6. A check for software distribution has been supported. This functionality is available through the new component named "software". This component check (comp software) validates the existence of files and the consistency of their attributes (group/permissions) in the Oracle Clusterware and Oracle Database software distributions across the cluster nodes.
7. The cluvfy command is not allowed to be run by a user with root ID.
8. The reference set of pre requisites has been updated to reflect the latest system requirements related to Oracle Clusterware and Oracle Database installations.
9. Extraneous checking of some packages has been removed (bug 6996722)

5. Shared Storage Checks

1. The following storage types are supported:

- a. NAS storage (with appropriate mount options, see <http://webiv.oraclecorp.com/cgi-bin/webiv/do.pl/Get?WwwID=note:35951> 5.1)
 - b. IBM GPFS
 - c. SCSI disks
2. For sharedness check on NAS, cluvfy requires the user to have write permission on the specified path. If the cluvfy user does not have write permission, cluvfy reports the path as not shared.

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6. Known Limitations
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None.

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7. References
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For detailed information on using CVU, refer to:

- Oracle Clusterware Installation Guide 11g Release 1 for AIX Based Systems (Part Number B28258-02)
- Oracle Real Application Clusters Installation Guide 11g Release 1 for Linux and UNIX (Part Number B28264-04)
- Oracle Clusterware Administration and Deployment Guide 11g Release 1 (11.1) (Part Number B28255-04)

For queries on CVU, refer to:

CVU FAQ on OTN site
(http://www.oracle.com/technology/products/database/clustering/cvu/faq/cvufaq_11g.html)