

Oracle Cluster Health Monitor - OS Tool (IPD/OS)

This tool (formerly known as Instantaneous Problem Detection tool) is designed to detect and analyze operating system (OS) and cluster resource related degradation and failures in order to bring more explanatory power to many issues that occur in clusters where Oracle Clusterware and Oracle RAC are running such as node eviction. It tracks the OS resource consumption at each node, process, and device level continuously. It collects and analyzes the cluster-wide data. In real time mode, when thresholds are hit, an alert is shown to the operator. For root cause analysis, historical data can be replayed to understand what was happening at the time of failure.

This is a standalone tool that should be installed on all clusters where you are using Oracle Real Application Clusters (RAC). The graphical user interface (crfgui) should be run from your client machine. There are two types of installation:

- 1) server installation which installs the product on all nodes in a given cluster.

```
$ ./crfinst.pl -i node1,node2,node3 -b /data/oracrfdb -m node1
```

Note: when it prompts for the JDK, hit enter, as it is not needed for the server install
- 2) client installation which installs the client tool to look at the data.

```
$ ./crfinst.pl -g <ui install dir>
```

Please read the **README** included in the zip file for the complete installation instructions.

Note: If you have an earlier version of the tool installed, you will need to remove it first before installing the new version. Directions to un-install are in the **README**.

This tool is currently supported on Linux (requires Linux kernel version greater than or equal to 2.6.9) and Windows (requires at least Windows Server 2003 with service pack 2). IPD/OS supports both 32-bit and 64-bit installations. The client installation requires the 32-bit Java SDK.

To run the tool from a client installation enter the following command:

```
$ crfgui -m node1
```

For historical mode enter:

```
$ crfgui -d "<HH>:<MM>" -m node1
```

where `-m` is any node in the cluster where the tool was installed and `-d` is the amount of time in the past you want start the replay (IE 00:15 will show the cluster information starting from 15 minutes ago).

There is also a tool called oclumon. It is a command line tool to query the bdb and print out node specific metrics for a specified time period, or print the durations and the states for a resource on a node during a specified time period. These states are based on predefined thresholds for each resource metric and are denoted as red, orange, yellow and green indicating decreasing order of criticality. For example, you could ask to show how many seconds did the CPU on node "foo" remain in RED state during the last 1 hour.

Please refer to the **README** included in the zip file for usage information.