
Fail Over of DDS and BCS from Primary to Alternate Node

This is a reference guide that describes the steps required to fail the DDS and BCS applications from their primary nodes to their secondary nodes. This reference guide should be used whenever there is a need to swap the node where the application is running; whether planned or unplanned. The design of the DDS/BCS cluster is for any pkg to be started automatically on its secondary node if the primary node fails.

Fail over without halting clustering on either node:

1. **cmviewcl -v** (This will display status packages and nodes defined to cluster. Verify status of nodes and pkgs before taking any action.)
2. **cmhaltpkg -n <nodename> -v <pkgname>** (command can be issued from either node; if node name not specified, command will be executed on whichever node it is issued from)
3. Wait to see results of command; **tail -f /etc/cmcluster/<pkgname>.cntl.log** to determine success or failure of halt command. If successful, move on to step 3.
4. **cmmodpkg -e -n <nodename> -v <pkgname>** (enables pkg to run, and enables pkg switching. This can be issued on either node. It will automatically start pkg on it's adoptive node if nodename is not specified)
5. **cmrunpkg -n <nodename> -v <pkgname>** (starts specified pkg on specified node. Can be run from either node.

Fail over of one node to another, halting clustering on one node:

1. **cmhaltnode -f -v <nodename>** (halts clustering on node specified, and fails over any running pkgs to other node).
2. Check **/etc/cmcluster/<pkgname>.cntl.log** on each machine to verify that the pkg did shutdown on one node and then started on the other node.

NOTE: For all commands listed above:

Nodename = hostname of server.

BCS Primary Nodename/DDS Secondary Nodename– a0177071 (BRDCIT5M)

DDS Primary Nodename/BCS Secondary Nodename– a0177073 (BRDCIT6M)

Pkgname = pkg1 (for BCS) or pkg2 (for DDS)

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In either of these scenarios, the `cmviewcl -v` command can be run on any active node in the cluster to verify the status of nodes, pkgs, and services associated with the cluster. **NEVER use the `cmviewcl` command while one node is active and the other is rebooting or otherwise unreachable via SG heartbeat connection. This action will TOC the unreachable box.**

If both packages are going to be run on the same node, **pkg1** should be started first whenever possible. This is the preferred order but is NOT required.