

On 26th of October 2006 it was decided (by Harry Renshall and his team) to move all nodes from the prod-bdii-exp alias (which is an alias for exp-bdii) to lcg-bdii alias.

What nodes ?

on lxplus you can run `/usr/bin/CDBHosts -cl gridbdii --data "hostname,clustersubname"`

This gives:

```
bdii101 lcg-bdii
bdii102 lcg-bdii
bdii103 prod-bdii
bdii104 prod-bdii
bdii105 exp-bdii
bdii106 exp-bdii
bdii107 exp-bdii
bdii108 lcg-bdii
```

and behind the "lcg-bdii" alias we currently have:

```
host lcg-bdii
lcg-bdii.cern.ch has address 128.142.173.206
lcg-bdii.cern.ch has address 128.142.160.9
lcg-bdii.cern.ch has address 128.142.160.74
```

CDB update for the node configuration

We want to move bdii105,6,7 to "lcg-bdii". This is done in CDB by moving the machines from one subcluster to another. The current structure of the templates allow to do that with the LEAFChangeProfile interface on lxadm:

```
/usr/bin/LEAFChangeProfile -newtype gridbdii_lcg_slc3 --list bdii105,bdii106,bdii107 (*)
```

Then one has to run "ncm-ncd --conf loadbalancing" on the servers (lxservb02, lxservb01).

CDB update for the alias itself

If we don't touch the definition of lcg-bdii alias, we will still get only 3 nodes reported. As we want all 6 nodes to be reported by the DNS, the CDB configuration of the alias itself needs to be updated:

```
in pro_component_loadbalancing.tpl
```

change

```
"/software/components/loadbalancing/clusters/lcg-bdii/best_hosts" = 3;
```

to

```
"/software/components/loadbalancing/clusters/lcg-bdii/best_hosts" = 6;
```

Then one has to run "ncm-ncd --conf loadbalancing" on the servers (lxservb02 for test, lxservb01 for production). Follow the evolution of the lcg-bdii definition on the server: `tail -f /var/log/lb/lbd.log | grep -i bdii`

```
Oct 26 11:02:01 contacted cluster: lcg-bdii node: bdii105 - reply was 96
Oct 26 11:02:02 contacted cluster: lcg-bdii node: bdii102 - reply was 96
Oct 26 11:02:03 contacted cluster: lcg-bdii node: bdii107 - reply was 91
```

What nodes ?

BdiiLoadBalancingAliases < LCG < TWiki

```
Oct 26 11:02:04 contacted cluster: lcg-bdii node: bdii106 - reply was 100
Oct 26 11:02:05 contacted cluster: lcg-bdii node: bdii101 - reply was 96
Oct 26 11:02:05 contacted cluster: lcg-bdii node: bdii108 - reply was 93
Oct 26 11:02:05 best hosts for LCG-BDII are: bdii107 bdii108 bdii102 bdii105 bdii101 bdii106
Oct 26 11:02:05 itfio-internal - DNS update of lcg-bdii.cern.ch with 128.142.173.137 128.142.173.
Oct 26 11:02:05 itfio-internal - cluster lcg-bdii.cern.ch is OK
Oct 26 11:02:06 itfio-external - DNS update of lcg-bdii.cern.ch with 128.142.173.137 128.142.173.
Oct 26 11:02:06 itfio-external - cluster lcg-bdii.cern.ch is OK
```

Now we have:

```
CDBHosts -cluster gridbdii -data "hostname,clustersubname"
bdii101 lcg-bdii
bdii102 lcg-bdii
bdii103 prod-bdii
bdii104 prod-bdii
bdii105 lcg-bdii
bdii106 lcg-bdii
bdii107 lcg-bdii
bdii108 lcg-bdii
```

```
host lcg-bdii
lcg-bdii.cern.ch has address 128.142.173.206
lcg-bdii.cern.ch has address 128.142.160.9
lcg-bdii.cern.ch has address 128.142.160.10
lcg-bdii.cern.ch has address 128.142.160.74
lcg-bdii.cern.ch has address 128.142.160.90
lcg-bdii.cern.ch has address 128.142.173.137
```

(*) The "newtype" is the name of the cluster template, as reported by CDBDump in the "tpl" field:

/usr/bin/CDBDump bdii101 gives:

```
#####
#
# Hostname "bdii101"
#
# Cluster          "gridbdii" - subcluster "lcg-bdii"
# Function         "GLOBAL LCG BDII" (Comment: "")
# State           "production" (*), importance "100" (*)
# Contracttype    "E"
# IT-section      "FIO-FS"
# IT-contact      "BDII.Support@cern.ch"
# User-contact    "Harry.Renshall@cern.ch, Maarten.Litmaath@cern.ch"
# ITCM cc-email   ""
#
# Hardware        "CV_3GHz" (clustervision)
# Serial Number   "500930051"
# Warranty until  "01-OCT-2008"
#
# Operating System "slc3" - kernel "2.4.21-47.EL.cernsmp" - tpl "pro_type_gridbdii_lcg_slc3"
#
#
# (*) not always reliable...
#
#       information retrieved by CDBDump at Thu Oct 26 10:16:54 2006
#
#####
```

-- VeroniqueLefebure - 26 Oct 2006

BdiiLoadBalancingAliases < LCG < TWiki

This topic: LCG > BdiiLoadBalancingAliases

Topic revision: r2 - 2006-11-28 - LaurenceField



Copyright &© 2008-2020 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback