



## BlueData - Common HA commands

### Environment

- BlueData
- EPIC 3.x

```
# bdconfig --hainfo

[root@controller ~]# bdconfig --hainfo
HA is Enabled.

Timestamp:      2019-07-31 04:59:48.239958

Cluster Monitoring Svc  ID                               Service State
-----
bds_pl_svc              (ocf::bluedata:BdRa): Started

Local Role      IP              Mnesia Node State  PCS Status Active
-----
shadow          16.143.21.110  UP                  True

Role      IP              Node State  PCS Status Active
-----
primary   16.143.21.112  UP          True
shadow    16.143.21.110  UP          True
arbiter   16.143.21.148  UP          N/A

Configuration has changed from original:

Original Config  IP
-----
primary          16.143.21.110
shadow           16.143.21.112
arbiter          16.143.21.148

# /opt/bluedata/common-install/bd_mgmt/bin/bd_mgmt ha query_state
ok
bd_ha_record
{'version': '1.0', 'anode': '10.102.197.143|203|UP', 'cnode2': '10.102.197.141|202|UP', 'cnode1':
'10.102.197.142|201|UP', 'clstate': '10.102.197.140|102|10.102.197.141'}
105620

# pcs status
```

```
[root@controller ~]# pcs status
Cluster name: bds_pacemaker
Stack: corosync
Current DC: worker.abe.lab (version 1.1.19-8.el7_6.4-c3c624ea3d) - partition with quorum
Last updated: Wed Jul 31 04:59:37 2019
Last change: Tue Jul 30 09:49:23 2019 by root via cibadmin on worker.abe.lab

2 nodes configured
1 resource configured

Online: [ controller.abe.lab worker.abe.lab ]
```

Full list of resources:

```
bds_pl_svc      (ocf::bluedata:BdRa):   Started worker.abe.lab
```

Daemon Status:

```
corosync: active/disabled
pacemaker: active/disabled
pcsd: active/enabled
```

Resource is HA engine

HA engine daemon that is started with bds-controller service.

```
[root@controller ~]# ps -ef | grep ha_engine
root      2704      1  0 01:35 ?        00:00:00 /usr/bin/python /usr/lib/python2.7/site-packages/bds_ha/ha_engine.py 16.143.21.110
16.143.21.112 16.143.21.148
```

## Run "crm resource -P" to restore the pacemaker connection.

pcs status

Failed Actions:

```
* bds_pl_svc_monitor_120000 on pplbdlmnl.analytics.loc 'not running' (7): call=7, status=complete, exitreason='',
  last-rc-change='Fri Feb  8 08:09:13 2019', queued=0ms, exec=0ms
```

Daemon Status:

```
corosync: active/disabled
pacemaker: active/disabled
pcsd: active/enabled
```

FAILED.

# crm\_recourse -P

PCS gets into a FAILED state. Lost connection between pacemaker.

Run "crm\_resource -P" to restore the pacemaker connection.

## Check PCS service & restart

```
# systemctl restart pcsd corosync pacemaker
# systemctl status pcsd corosync pacemaker
```

## Checking epmd is started

```
# /opt/bluedata/common-install/bd_mgmt/erts-8.3/bin/epmd -names
epmd: up and running on port 4369 with data:
name bd_mgmt at port 9000
name bds at port 9001
```

## Checking ha\_engine

```
# ps ax | grep ha_engine
39113 pts/14 S+   0:00 grep --color=auto ha_engine
56549 ?    Ss   2:31 /usr/bin/python /usr/lib/python2.7/site-packages/bds_ha/ha_engine.py 192.168.1.1
192.168.1.2 192.168.1.3

# tail -f /var/log/bluedata/pl_ha/log.0
```

105:2019-07-18 14:52:36,157 - pl\_ha - WARNING - cmd /usr/lib/python2.7/site-packages/bds\_ha/services/bd\_cluster\_ip.py --ping state COMPLETED  
102:2019-07-18 14:52:36,158 - pl\_ha - WARNING - service bd\_cluster\_ip is up  
105:2019-07-18 14:52:36,158 - pl\_ha - WARNING - cmd /usr/lib/python2.7/site-packages/bds\_ha/services/bd\_nagios.py --ping state COMPLETED  
102:2019-07-18 14:52:36,158 - pl\_ha - WARNING - service bd\_nagios is up  
105:2019-07-18 14:52:36,158 - pl\_ha - WARNING - cmd /usr/lib/python2.7/site-packages/bds\_ha/services/bd\_mgmt.py --ping state COMPLETED

Only 2 things are checked to trigger failover:

- Make sure cluster IP
- Erlang node ping
- Check on Nagios, but that does not trigger failover

### **HA Failover**

```
# bdconfig --hafailover
```

### **HA suspend and resume**

```
# /opt/bluedata/bundles/bluedata-*/startscript.sh --action suspendha  
# /opt/bluedata/bundles/bluedata-*/startscript.sh --action resumeha
```

### **Moving floating IP**

```
# pcs resource move bds_pl_svc controller1.localdomain
```

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## **Internal Notes**

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