Redundancy - Installing PCS Cluster

PCS Cluster is required for:

- The role LB (Load Balancer), if two load balancers are used for redundancy
- The role STORE (file storage), if two file stores are setup using DRBD for redundancy

If the system does not contain redundancy, do not install this.

Install PCS Services (Both nodes)

Install the PCS packages:

Install packages

```
yum -y install pacemaker pcs resource-agents fence-agents-all
systemctl enable pcsd
systemctl enable corosync
systemctl enable pacemaker
systemctl start pcsd.service
```

Disable Managed Services (Both nodes)

Disable smb since this will be managed by pacemaker:

Disable Managed Services

```
systemctl disable smb
```

Configure the Firewall (Both nodes)

Next configure the firewall for ha services:

Configure firewall

```
firewall-cmd --zone=public --add-service=high-availability --permanent
firewall-cmd --reload
```

Change user password (Both nodes)

Change the password of the hacluster user (replace <password> with the chosen password):

Setup hosts and create user and password
`echo <password>	passwd --stdin hacluster`

Configuration (Only on one node!)

Next configure the names of the machines and the virtual IP address which will be shared in the cluster:

Setup hosts and create user and password
KE_HOST1=uk-acd-store1 KE_HOST2=uk-acd-store2

Cluster Configuration (Only on one node!)

Now configure the cluster and set some basic options - replace <password> with the chosen password:

Configure cluster
| ```
pcs cluster auth ${KE_HOST1} ${KE_HOST2} -u hacluster -p <password> --force
pcs cluster setup --force --name portal ${KE_HOST1} ${KE_HOST2}
pcs cluster enable --all
pcs cluster start --all
pcs property set stonith-enabled=false
pcs property set no-quorum-policy=ignore
pcs resource defaults migration-threshold=1
``` |

Test

Check the results on both machines:

Test

```
pcs status

# It might take a little time for the cluster to come online. Run the above command, until the cluster comes online on both nodes.

-->

Cluster name: portal
Stack: corosync
Current DC: uk-acd-store2 (version 1.1.16-12.el7_4.8-94ff4df) - partition with quorum
Last updated: Mon Mar 19 15:24:25 2018
Last change: Mon Mar 19 15:24:20 2018 by hacluster via crmd on uk-acd-store2

2 nodes configured
0 resources configured

Online: [ uk-acd-store1 uk-acd-store2 ]

No resources


Daemon Status:
  corosync: active/enabled
  pacemaker: active/enabled
  pcsd: active/enabled
```