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# RHEL8 Cluster

```
[root@rhcs1 ~]# yum install pcs pacemaker fence-agents-all
```

```
[root@rhcs1 ~]# firewall-cmd --permanent --add-service=high-availability  
[root@rhcs1 ~]# firewall-cmd --reload
```

```
[root@rhcs1 ~]# passwd hacluster  
Changing password for user hacluster.  
New password:  
Retype new password:  
passwd: all authentication tokens updated successfully.
```

```
[root@rhcs1 ~]# systemctl start pcsd.service  
[root@rhcs1 ~]# systemctl enable pcsd.service
```

```
[root@z1 ~]# pcs host auth z1.example.com z2.example.com  
Username: hacluster  
Password:  
z1.example.com: Authorized  
z2.example.com: Authorized
```

```
[root@z1 ~]# pcs cluster setup my_cluster --start z1.example.com
```

z2.example.com

```
[root@z1 ~]# pcs cluster enable --all
[root@z1 ~]# systemctl enable pacemaker
[root@z1 ~]# systemctl enable corosync
```

```
[root@z1 ~]# pcs cluster status
Cluster Status:
  Stack: corosync
  Current DC: z2.example.com (version 2.0.0-10.el8-b67d8d0de9) - partition
with quorum
  Last updated: Thu Oct 11 16:11:18 2018
  Last change: Thu Oct 11 16:11:00 2018 by hacluster via crmd on
z2.example.com
  2 Nodes configured
  0 Resources configured

...
```

```
[root@z1 ~]# pcs cluster status
Cluster Status:
  Stack: corosync
  Current DC: z1.example.com (version 2.0.0-10.el8-b67d8d0de9) - partition
with quorum
  Last updated: Thu Oct 11 16:11:18 2018
  Last change: Thu Oct 11 16:11:00 2018 by hacluster via crmd on
z1.example.com
  2 nodes configured
  0 resources configured

PCSD Status:
  z1.example.com: Online
  z2.example.com: Online
```

## STONITH ( )





fence STONITH

```
[root@z1 ~]# pcs property set stonith-enabled=false
```

## LVM Resource

- [https://access.redhat.com/documentation/ko-kr/red\\_hat\\_enterprise\\_linux/9/html/configuring\\_and\\_managing\\_high\\_availability\\_clusters/assembly\\_configuring-active-passive-nfs-server-in-a-cluster-configuring-and-managing-high-availability-clusters](https://access.redhat.com/documentation/ko-kr/red_hat_enterprise_linux/9/html/configuring_and_managing_high_availability_clusters/assembly_configuring-active-passive-nfs-server-in-a-cluster-configuring-and-managing-high-availability-clusters)

LVM Resource

- lvmlockd
- clvmd
- system\_id
- tagging

tagging	system_id
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## system\_id LVM Resource

/etc/lvm/lvm.conf	system_id_source	uname
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```
# Configuration option global/system_id_source.
system_id_source = "uname"
```

LVM	ID가	uname
-----	-----	-------

```
# lvm systemid
system ID: z1.example.com
# uname -n
z1.example.com
```

```
[root@z1 ~]# pvcreate /dev/sdb1
Physical volume "/dev/sdb1" successfully created
```

--setautoactivation n 가

```
[root@z1 ~]# vgcreate --setautoactivation n my_vg /dev/sdb1
Volume group "my_vg" successfully created
[root@z1 ~]# vgs -o+systemid
VG      #PV #LV #SN Attr   VSize  VFree  System ID
my_vg   1   0   0 wz--n- <1.82t <1.82t z1.example.com
```

System ID                      uname -n                      .

- <https://access.redhat.com/solutions/3743711>

```
# vgchange --systemid $(uname -n) <vg name>
```

```
[root@z1 ~]# lvcreate -L450 -n my_lv my_vg
Rounding up size to full physical extent 452.00 MiB
Logical volume "my_lv" created
[root@z1 ~]# lvs
LV      VG      Attr      LSize   Pool Origin Data%  Move Log Copy%
Convert
my_lv   my_vg   -wi-a---- 452.00m
...

[root@z1 ~]# mkfs.xfs /dev/my_vg/my_lv
meta-data=/dev/my_vg/my_lv      isize=512    agcount=4, agsize=28928 blks
      =                       sectsz=512   attr=2, projid32bit=1
...

```

```
[root@z1 ~]# mkdir /nfsshare

[root@z1 ~]# lvchange -ay my_vg/my_lv
[root@z1 ~]# mount /dev/my_vg/my_lv /nfsshare

[root@z1 ~]# mkdir -p /nfsshare/exports
[root@z1 ~]# mkdir -p /nfsshare/exports/export1
[root@z1 ~]# mkdir -p /nfsshare/exports/export2

[root@z1 ~]# touch /nfsshare/exports/export1/clientdatafile1
[root@z1 ~]# touch /nfsshare/exports/export2/clientdatafile2

[root@z1 ~]# umount /dev/my_vg/my_lv
[root@z1 ~]# vgchange -an my_vg
```

```

mount vgchange -an my_vg
가 가 .

```

## STONITH Fence Device

2-node (가 primary ) delay fence

```

# pcs stonith create fence-node1 fence_ipmilan ip=192.168.0.33 ipport=7061
lanplus=1 username=admin password=admin pcmk_host_list=host1 delay=10
# pcs stonith create fence-node2 fence_ipmilan ip=192.168.0.33 ipport=7062
lanplus=1 username=admin password=admin pcmk_host_list=host2

```

- [https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/8/html/configuring\\_and\\_managing\\_high\\_availability\\_clusters/index](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/8/html/configuring_and_managing_high_availability_clusters/index)

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