

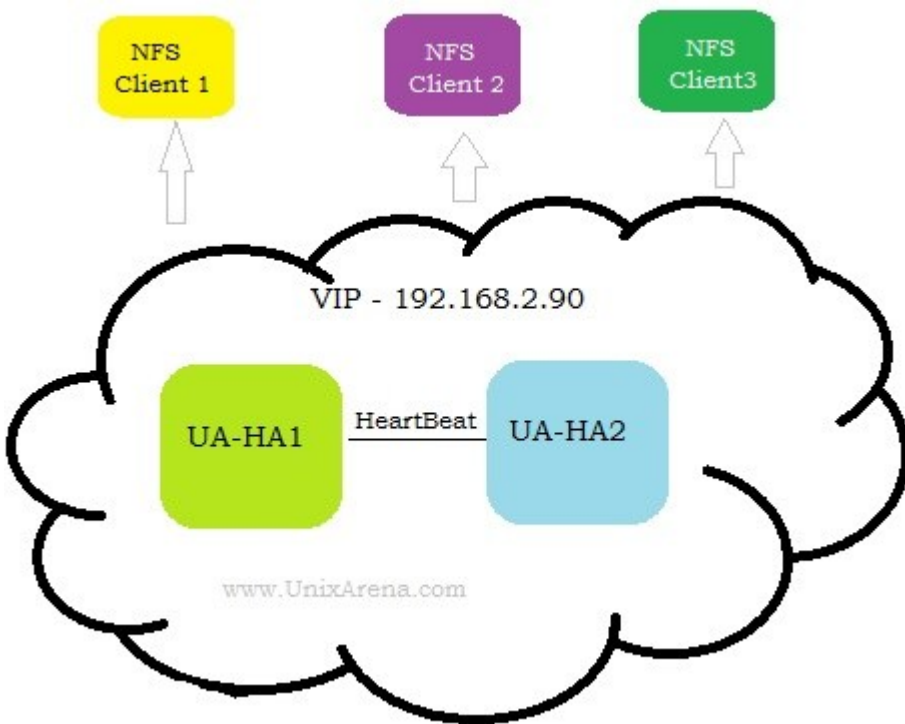
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Pacemaker

NFS HA

<https://www.unixarena.com/2016/08/configuring-nfs-ha-using-redhat-cluster-pacemaker-rhel-7.html>

Redhat Enterprise Linux 7 Pacemaker 가 NFS
 , HA , (fencing)
 NFS
 NFS HA NAS 가 Failover KVM VM GFS
 pacemaker



- RHEL 7.x (Hosts-UA-HA1 / UA-HA2)
- Redhat Repository Local Repository
- SELINUX & Firewalld

1.

```
# yum install pcs fence-agents-all
```

2. SELINUX

```
# setenforce 0
setenforce: SELinux is disabled
```

```
# cat /etc/selinux/config |grep SELINUX |grep -v "#"  
SELINUX=disabled  
SELINUXTYPE=targeted
```

3. firewalld

```
UA-HA# systemctl stop firewalld.service  
UA-HA# systemctl disable firewalld.service  
UA-HA# iptables --flush  
UA-HA#
```

4.

```
# systemctl start pcsd.service  
# systemctl enable pcsd.service  
# systemctl status pcsd.service
```

5. hauser

```
# passwd hacluster  
Changing password for user hacluster.  
New password:  
Retype new password:  
passwd: all authentication tokens updated successfully.
```

6. hacluster

```
# pcs cluster auth UA-HA1 UA-HA2
```

7. pcs UACLS

```
# pcs cluster setup --name UACLS UA-HA1 UA-HA2
```

8. pcs -all

```
# pcs cluster start -all
```

9. corosync heartbeat IP가

([:configure-redundant-corosync](#))

```
# corosync-cfgtool -s
```

10-1. STONITH 가 .

```
# pcs property set stonith-enabled=false
# pcs property show stonith-enabled
```

10-2. ipmilan (STONITH) .

```
# pcs stonith create UA-HA1_fen fence_ipmilan pcmk_host_list="UA-HA1"
ipaddr=192.168.10.24 login=root passwd=test123 lanplus=1 cipher=1 op
monitor interval=60s
# pcs stonith create UA-HA2_fen fence_ipmilan pcmk_host_list="UA-HA2"
ipaddr=192.168.10.25 login=root passwd=test123 lanplus=1 cipher=1 op
monitor interval=60s
```

IP IDRAC IP .

11. .

```
# crm_verify -L -V
```

12-1. .

```
# vgcreate UAVG1 /dev/disk_name1
# vgcreate UAVG2 /dev/disk_name2
# lvcreate -L sizeM -n /dev/UAVG1/UAVOL1
# lvcreate -L sizeM -n /dev/UAVG2/UAVOL2
```

12-2. . (xfs .)

```
# mkfs.xfs /dev/UAVG1/UAVOL1
# mkfs.xfs /dev/UAVG2/UAVOL2
```

13. LVM 가 . 가 .
root vg 가 lvm.conf .

```
# grep use_lvmetad /etc/lvm/lvm.conf |grep -v "#"  
use_lvmetad = 0
```

14.

```
# pcs property set symmetric-cluster=true
[root@UA-HA1 tmp]# pcs status
Cluster name: UACLS
Stack: corosync
Current DC: UA-HA2 (2) - partition with quorum
2 Nodes configured
2 Resources configured
Online: [ UA-HA1 UA-HA2 ]
Full list of resources:
UA-HA1_fen (stonith:fence_ipmilan): Started UA-HA2
UA-HA2_fen (stonith:fence_ipmilan): Started UA-HA1
PCSD Status:
UA-HA1: Online
UA-HA2: Online
Daemon Status:
corosync: active/enabled
pacemaker: active/enabled
pcsd: active/enabled
[root@UA-HA1 tmp]# pcs stonith show
UA-HA1_fen (stonith:fence_ipmilan): Started
UA-HA2_fen (stonith:fence_ipmilan): Started
[root@UA-HA1 tmp]#
```

15.VG & Mount

```
# pcs resource create UAVG1_res LVM volgrpname="UAVG1" exclusive=true --
group UANFSHA
# pcs resource create UAVOL1_res Filesystem device="/dev/UAVG1/UAVOL1"
directory="/cm/shared" fstype="xfs" --group UANFSHA
# pcs resource create UAVG2_res LVM volgrpname="UAVG2" exclusive=true --
group UANFSHA
# pcs resource create UAVOL2_res Filesystem device="/dev/UAVG2/UAVOL2"
directory="/global/home" fstype="xfs" --group UANFSHA
```

16. NFS VIP IP NFS

```
# pcs resource create ClusterIP ocf:heartbeat:IPaddr2 ip=192.168.2.90
nic="eth0" cidr_netmask=24 op monitor interval=30s --group UANFSHA
```

17. NFS

```
[root@UA-HA1 ~]# pcs resource create NFS-D nfsserver
nfs_shared_infodir=/global/nfsinfo nfs_ip=192.168.2.90 --group UANFSHA
```

18.

```
[root@UA-HA1 ~]# pcs status
Cluster name: UACLS
Last updated: Tue Aug 16 12:39:22 2016
Last change: Tue Aug 16 12:39:19 2016 via cibadmin on UA-HA1
Stack: corosync
Current DC: UA-HA1 (1) - partition with quorum
Version: 1.1.10-29.el7-368c726
2 Nodes configured
8 Resources configured
Online: [ UA-HA1 UA-HA2 ]
Full list of resources:
UA-HA1_fen (stonith:fence_ipmilan): Started UA-HA1
UA-HA2_fen (stonith:fence_ipmilan): Started UA-HA1
Resource Group: UANFSHA
UAVG1_res (ocf::heartbeat:LVM): Started UA-HA1
UAVG2_res (ocf::heartbeat:LVM): Started UA-HA1
UAVOL1_res (ocf::heartbeat:Filesystem): Started UA-HA1
UAVOL2_res (ocf::heartbeat:Filesystem): Started UA-HA1
ClusterIP (ocf::heartbeat:IPaddr2): Started UA-HA1
NFS-D (ocf::heartbeat:nfsserver): Started UA-HA1
```

19. HA NFS

```
[root@UA-HA1 ~]# pcs resource create nfs-cm-shared exportfs
clientspec=192.168.2.0/255.255.255.0 options=rw,sync,no_root_squash
directory=/SAP_SOFT fsid=0 --group UANFSHA
[root@UA-HA1 ~]# pcs resource create nfs-global-home exportfs
clientspec=10.248.102.0/255.255.255.0 options=rw,sync,no_root_squash
directory=/users1/home fsid=1 --group UANFSHA
```

20.

```
[root@UA-HA1 ~]# pcs status
Cluster name: UACLS
Last updated: Tue Aug 16 12:52:43 2016
Last change: Tue Aug 16 12:51:56 2016 via cibadmin on UA-HA1
Stack: corosync
Current DC: UA-HA1 (1) - partition with quorum
Version: 1.1.10-29.el7-368c726
2 Nodes configured
10 Resources configured
Online: [ UA-HA1 UA-HA2 ]
Full list of resources:
UA-HA1_fen (stonith:fence_ipmilan): Started UA-HA1
```

```
UA-HA2_fen (stonith:fence_ipmilan): Started UA-HA1
Resource Group: UANFSHA
UAVG1_res (ocf::heartbeat:LVM): Started UA-HA1
UAVG2_res (ocf::heartbeat:LVM): Started UA-HA1
UAVOL1_res (ocf::heartbeat:Filesystem): Started UA-HA1
UAVOL2_res (ocf::heartbeat:Filesystem): Started UA-HA1
ClusterIP (ocf::heartbeat:IPaddr2): Started UA-HA1
NFS-D (ocf::heartbeat:nfsserver): Started UA-HA1
nfs-cm-shared (ocf::heartbeat:exportfs): Started UA-HA1
nfs-global-home (ocf::heartbeat:exportfs): Started UA-HA1
```

21.

```
[root@UA-HA1 ~]# pcs constraint order start UAVG1_res then UAVOL1_res
[root@UA-HA1 ~]# pcs constraint order start UAVG2_res then UAVOL2_res
[root@UA-HA1 ~]# pcs constraint order start UAVOL1_res then ClusterIP
[root@UA-HA1 ~]# pcs constraint order start UAVOL2_res then ClusterIP
[root@UA-HA1 ~]# pcs constraint order start ClusterIP then NFS-D
[root@UA-HA1 ~]# pcs constraint order start NFS-D then nfs-cm-shared
[root@UA-HA1 ~]# pcs constraint order start NFS-D then nfs-global-home
[root@UA-HA1 ~]# pcs constraint
Location Constraints:
Resource: UANFSHA
Enabled on: UA-HA1 (role: Started)
Ordering Constraints:
start UAVG1_res then start UAVOL1_res
start UAVG2_res then start UAVOL2_res
start UAVOL1_res then start ClusterIP
start UAVOL2_res then start ClusterIP
start ClusterIP then start NFS-D
start NFS-D then start nfs-cm-shared
start NFS-D then start nfs-global-home
Colocation Constraints:
[root@UA-HA1 ~]#
```

22. NFS . (가)

```
[root@UA-HA1 ~]# showmount -e 192.168.2.90
Export list for 192.168.2.90:
/SAP_SOFT 192.168.2.0/255.255.255.0
/users1/home 192.168.2.0/255.255.255.0
[root@UA-HA1 ~]#
[root@UA-HA1 ~]# ifconfig eth0
ib0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 2044
inet 192.168.2.90 netmask 255.255.255.0 broadcast 0.0.0.0
inet6 fe80::7efe:9003:a7:851 prefixlen 64 scopeid 0x20
```

23. STONITH

```
# pcs property set stonith-enabled=true  
# pcs property show stonith-enabled
```

24. NFS

```
# mkdir /users1/home  
# mkdir /SAP_SOFT  
# mount -t nfs -o vers=4 192.168.2.90:/SAP_SOFT /SAP_SOFT  
# mount -t nfs -o vers=4 192.168.2.90:/users1/home /users1/home
```

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|-----------------------------|-------------------------|---|-----|----|
| Redhat Enterprise Linux 7.x | pacemaker cluster suite | 가 | NFS | v4 |
| | | 가 | | 가 |

```
[root@UA-HA1 init.d]# pcs resource clear UANFSHA
```

- <https://www.unixarena.com/2016/08/configuring-nfs-ha-using-redhat-cluster-pacemaker-rhel-7.html>

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