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Pacemaker - 2 node cluster

fence-xvm

vBMC

ipmilan

libvirt

ENV Version

1. CentOS Linux release 7.9.2009 (Core)
2. pcs-0.9.169-3.el7.centos.1.x86_64

vBMC

: <https://yjwang.tistory.com/181>

pacemaker vbmc (host)

```
# vbmc add --username admin --password testtest --port 6161 --libvirt-uri
qemu:///system virt-go-c79-161
# vbmc add --username admin --password testtest --port 6162 --libvirt-uri
qemu:///system virt-go-c79-162
# vbmc start virt-go-c79-161
# vbmc start virt-go-c79-162
```

vbmc list (host)

```
# vbmc list
+-----+-----+-----+-----+
| Domain name      | Status  | Address | Port  |
+-----+-----+-----+-----+
| virt-go-c79-161  | running | ::      | 6161 |
| virt-go-c79-162  | running | ::      | 6162 |
+-----+-----+-----+-----+
```

Pacemaker Cluster

- /etc/hosts (both)

```
# cat << EOF >> /etc/hosts
192.168.123.161      node1
192.168.123.162      node2
EOF
```

- [option] /etc/hosts (both) if use rrp

```
# cat << EOF >> /etc/hosts
192.168.123.161      node1
192.168.123.162      node2
192.168.123.163      node1-rrp
192.168.123.164      node2-rrp
EOF
```

- install package (both)

```
# yum install -y pcs fence-agents-ipmilan vim
```

- start pcsd service for authentication (both)

```
# systemctl enable pcsd --now
```

- Set cluster user password (both)

```
# echo "testtest" |passwd --stdin hacluster
```

- Auth cluster

```
# pcs cluster auth node1 node2 -u hacluster -p testtest
node1: Authorized
node2: Authorized
```

- [option] if use rrp

```
# pcs cluster auth node1 node2 node1-rrp node2-rrp -u hacluster -p testtest
```

- setup pacemaker cluster

```
# pcs cluster setup --start --enable --name test-pacemaker node1 node2
```

- [option] if use rrp

```
# pcs cluster setup --start --enable --name test-pacemaker node1,node1-rrp
node2,node2-rrp
```

- Check cluster status

```
# pcs status
Cluster name: test-pacemaker

WARNINGS:
No stonith devices and stonith-enabled is not false

Stack: corosync
Current DC: node1 (version 1.1.23-1.el7_9.1-9acf116022) - partition with
quorum
Last updated: Fri Jul 16 08:02:53 2021
Last change: Fri Jul 16 08:01:50 2021 by hacluster via crmd on node1

2 nodes configured
0 resource instances configured

Online: [ node1 node2 ]

No resources

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

- Create ipmi fence device

```
vBMC          가      .2node          split-brain
delay option  가      .
```

```
# pcs stonith create fence-node1 fence_ipmilan delay=10 ipaddr=192.168.123.1
ipport=6161 lanplus=1 login=admin passwd=testtest pcmk_host_list=node1
# pcs stonith create fence-node2 fence_ipmilan ipaddr=192.168.123.1
ipport=6162 lanplus=1 login=admin passwd=testtest pcmk_host_list=node2
```

fence-device .

```
# pcs stonith show
fence-node1 (stonith:fence_ipmilan): Started node1
fence-node2 (stonith:fence_ipmilan): Started node2
```

```
fence device 가      resource .
node2  reboot .
```

```
# pcs stonith fence node2  
Node: node2 fenced
```

```
node2          reboot          가          .
```

```
[node2]# uptime  
08:13:01 up 0 min,  1 user,  load average: 0.19, 0.05, 0.02
```

fence node1

```
# pcs stonith fence node1  
Node: node1 fenced
```

```
dummy resource  vip resource  .
```

```
# pcs resource create vip ipaddr2 ip=192.168.123.160 cidr_netmask=24  
  
# pcs resource create dummy1 ocf:pacemaker:Dummy  
# pcs resource create dummy2 ocf:pacemaker:Dummy  
# pcs resource create dummy3 ocf:pacemaker:Dummy
```

cluster status

```
# pcs status  
Cluster name: test-pacemaker  
Stack: corosync  
Current DC: node1 (version 1.1.23-1.el7_9.1-9acf116022) - partition with quorum  
Last updated: Fri Jul 16 08:19:49 2021  
Last change: Fri Jul 16 08:19:26 2021 by root via cibadmin on node1  
  
2 nodes configured  
6 resource instances configured  
  
Online: [ node1 node2 ]  
  
Full list of resources:
```

```
fence-node1 (stonith:fence_ipmilan): Started node1
fence-node2 (stonith:fence_ipmilan): Started node2
vip (ocf::heartbeat:IPaddr2): Started node1
dummy1 (ocf::pacemaker:Dummy): Started node2
dummy2 (ocf::pacemaker:Dummy): Started node1
dummy3 (ocf::pacemaker:Dummy): Started node2
```

Daemon Status:

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

vip status

```
# ip -o -4 a
1: lo inet 127.0.0.1/8 scope host lo\ valid_lft forever
preferred_lft forever
2: eth0 inet 192.168.123.161/24 brd 192.168.123.255 scope global dynamic
eth0\ valid_lft 3340sec preferred_lft 3340sec
2: eth0 inet 192.168.123.160/24 brd 192.168.123.255 scope global
secondary eth0\ valid_lft forever preferred_lft forever
```

```
resource가 node constaint
```

resource group .

- <https://yjwang.tistory.com/182>

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