



ABLESTACK Online Docs
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Mysql 이중화를 위 한 PCS Resource 구성

Mysql 이중화를 위한 PCS Resource 구성

두 가상머신에 Shared Volume을 LVM으로 구성한 후 Mysql-server를 각각 설치하고 DB의 데이터 경로를 Shared Volumes 경로로 변경합니다.

lvm, file system, mysql을 pcs resource로 등록하고 그룹화하여 한 Node에서만 실행되고 이동되도록 구성합니다.

- resource group은 등록 순서에 따라 실행됩니다.

LVM-activate resource 에이전트 등록

예) # pcs resource create LVM-activate vgname= vg_access_mode=system_id --group

```
pcs resource create cluster-vg ocf:heartbeat:LVM-activate vgname=able activation_mode=exclusive  
vg_access_mode=system_id --group test-grp
```

Filesystem resource 에이전트 등록

예) # pcs resource create Filesystem device="/dev/" directory="" ftype="xfs" --group

```
pcs resource create cluster-fs ocf:heartbeat:Filesystem device=/dev/able/lv_data  
directory=/mnt/share/ ftype=xfs --group test-grp
```

VIP resource 등록

```
pcs resource create vip ipaddr2 ip=10.10.254.199 cidr_netmask=16 op monitor interval=10 --group  
test-grp  
pcs resource meta vip migration-threshold=1  
pcs resource meta vip resource-stickiness=50
```

Mysql resource 에이전트 등록

- mysql은 systemctl service로 실행되는 것이 아닌, pcs agent에 의해 실행됩니다.

```
pcs resource create mysql ocf:heartbeat:mysql binary="/usr/sbin/mysqld"  
config="/etc/my.cnf.d/mysql-server.cnf" datadir="/mnt/share/mysql"  
pid="/run/mysql/mysqld.pid" socket="/mnt/share/mysql/mysql.sock" op start timeout=60s op  
stop timeout=60s op monitor interval=20s timeout=30s --group test-grp
```

구성 완료된 pcs 상태 확인

Node 1

```
[root@ablecloud ~]# pcs status
Cluster name: hacluster
Cluster Summary:
* Stack: corosync (Pacemaker is running)
* Current DC: lilo-hb2 (version 2.1.6-10.1.el9_3-6fdc9deea29) - partition with quorum
* Last updated: Wed Jan 31 11:37:44 2024 on lilo-hb1
* Last change: Wed Jan 31 10:00:08 2024 by root via cibadmin on lilo-hb1
* 2 nodes configured
* 6 resource instances configured

Node List:
* Online: [ lilo-hb1 lilo-hb2 ]

Full List of Resources:
* fence-node1 (stonith:fence_mold): Started lilo-hb2
* fence-node2 (stonith:fence_mold): Started lilo-hb1
* Resource Group: test-grp:
  * cluster-vg (ocf:heartbeat:LVM-activate): Started lilo-hb1
  * cluster-fs (ocf:heartbeat:Filesystem): Started lilo-hb1
  * vip (ocf:heartbeat:IPaddr2): Started lilo-hb1
  * mysql (ocf:heartbeat:mysql): Started lilo-hb1

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

Node 2

```
[root@ablecloud ~]# pcs status
Cluster name: hacluster
Cluster Summary:
* Stack: corosync (Pacemaker is running)
* Current DC: lilo-hb2 (version 2.1.6-10.1.el9_3-6fdc9deea29) - partition with quorum
* Last updated: Wed Jan 31 11:37:24 2024 on lilo-hb2
* Last change: Wed Jan 31 10:00:08 2024 by root via cibadmin on lilo-hb1
* 2 nodes configured
* 6 resource instances configured

Node List:
* Online: [ lilo-hb1 lilo-hb2 ]

Full List of Resources:
* fence-node1 (stonith:fence_mold): Started lilo-hb2
* fence-node2 (stonith:fence_mold): Started lilo-hb1
* Resource Group: test-grp:
  * cluster-vg (ocf:heartbeat:LVM-activate): Started lilo-hb1
  * cluster-fs (ocf:heartbeat:Filesystem): Started lilo-hb1
  * vip (ocf:heartbeat:IPaddr2): Started lilo-hb1
  * mysql (ocf:heartbeat:mysql): Started lilo-hb1

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

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