Docker Cluster

한국정보교육원

[클라우드 데브옵스(DEVOPS) 엔지니어 및 관리자 양성과정]

박용진

Docker Swarm Cluster

```
[root@manager:~]# docker --version
Docker version 23.0.1, build a5ee5b1

[root@worker1:~]# docker --version
Docker version 23.0.1, build a5ee5b1

[root@worker2:~]# docker --version
Docker version 23.0.1, build a5ee5b1
```

Manager, worker(1~2) – Version

Docker Swarm Cluster

```
[root@manager:~]# systemctl status firewalld
( firewalld.service - firewalld - dynamic firewall daemon
    Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled; vendor preset: enabled)
    Active: inactive (dead)
    Docs: man:firewalld(1)
```

Linux Firewall (disable, stop)

Docker Swarm Cluster

```
[root@manager:~]# docker node Is
                                HOSTNAME
                                            STATUS
                                                       AVAILABILITY
                                                                       MANAGER STATUS
                                                                                         ENGINE VERSION
agjkkf2heic1u4vr2n2phn0bf *
                                            Ready
                                                       Active
                                                                       Leader
                                                                                         23.0.1
                                manager
5oeln18o248dvmjzsphwfbi16
f6bxnnblg3581g4vrkktge3ry
                                                       Active
                                worker1
                                            Ready
                                                                       Reachable
                                                                                          23.0.1
                                worker2
                                                       Active
                                                                                          23.0.1
                                            Ready
```

Docker Service

```
[root@manager:~]# docker service create -d --name Apache --replicas=3 --limit-memory 200m --reserve-memory 100m --mount type=volume,source=Apach-volume,destination=/usr/local/apache2/htdocs httpd:latest
sozc9o95hp8cbnwk6vm238sxq
[root@manager:~]#
[root@manager:~]#
docker service create -d --name Nginx --replicas=3 --limit-memory 120m --reserve-memory 100m --mount type=volume,source=Nginx-volume,destination=/us
r/share/nginx/html/ nginx:latest
6wy7lmcypb26mb40it09u9c4r
```

Nginx Reserve Memory 100M, Limit Memory 120M, Apache volume mount, Replicas = 3 Apache Reserve Memory 100M, Limit Memory 200M, Nginx volume mount, Replicas = 3

Docker Service

Apache Volume, Nginx Volume

Docker Service

```
[root@manager:~]# docker service Is
              NAME
                        MODE
                                     REPLICAS
                                                 IMAGE
                                                               PORTS
sozc9o95hp8c
                        replicated
                                     3/3
                                                httpd:latest
              Apache
                                     3/3
6wy71mcypb26
              Nginx
                        replicated
                                                nginx: latest
```

Portainer



