

Disaster Management with Swarm Cluster

1 Force a new cluster on worker= 4

```
$ docker swarm init --force-new-cluster --advertise-addr <manager_IP>
```

2 List out nodes on worker-4

```
$ docker node ls
```

3 Create a new redis service

```
$ docker service create --name redis-swarm --mode global redis:latest
```

4 List out tasks of new redis service

```
$ docker service ps redis-swarm
```



5 Join worker nodes again to cluster

```
$ docker swarm join-token worker
```

6 List out nodes on worker-4

```
$ docker node ls
```

7 List out services

```
$ docker service ls
```

8 List out tasks of redis-swarm service

```
$ docker service ps redis-swarm
```

9 Promote a worker node to manager

```
$ docker node promote manager
```



10 Stop Docker Service before backup

```
$ sudo systemctl stop docker
```

11 Locate swarm directory on host

```
$ sudo su -  
  
cd /var/lib/docker  
ls  
cd swarm/  
ls  
cat state.json  
exit
```

12 Backup swarm directory in host

```
$ mkdir swarm-backup  
  
$ cp -r /var/lib/docker/swarm/ <path-to-swarm-backup-directory>  
  
$ cd swarm-backup  
  
$ ls  
  
$ exit
```

13 Start the Docker service again

```
$ sudo systemctl start docker  
  
$ sudo systemctl status docker
```

14 Make all manager nodes leave

```
$ docker swarm leave  
  
$ docker swarm leave --force
```

15 Stop the Docker Service again

```
$ sudo systemctl stop docker
```



16 Retrieve swarm backup data

```
$ sudo su -  
  
cd /var/lib/docker  
  
rm -rf swarm  
  
cp -r <path-to-swarm-backup-  
directory>/swarm /var/lib/docker/  
  
cd swarm  
  
ls (check the contents)  
  
exit
```

17 Start the Docker service again

```
$ sudo systemctl start docker  
  
$ sudo systemctl status docker
```

18 Force a new cluster on worker-4

```
$ docker swarm init --force-new-cluster
```



19 List out services

```
$ docker service ls
```

20 List out tasks of redis service

```
$ docker service ps redis-swarm
```

21 Get the worker node join token

```
$ docker swarm join-token worker
```

22 List out nodes

```
$ docker node ls
```

22 List out tasks of redis service

```
$ docker service ps redis-swarm
```