

Module-3: Storage in Docker

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DEMO-4: Configuring Device Mapper for Docker

Note: All commands are executed as root.

Prerequisites

Note: Device mapper requires lvm2 and thin-provisioning-tools packages (for ubuntu/debian) installed on the system. It is recommended to use a separate GCP instance for this demo. This demo is configured in loop-lvm mode which is fit only for testing environments.

1. Install lvm2 and thin-provisioning-tools

```
$ apt update
$ apt install lvm2 -y
$ apt install thin-provisioning-tools -y
```

Configuring Device Mapper

1. Stop the docker.service

```
$ systemctl stop docker
```

2. Edit the daemon.json file inside /etc/docker/ directory and add the following lines to it

```
$ vi /etc/docker/daemon.json
```

```
{
    "storage-driver": "devicemapper"
}
```

3. Start the docker.service again

```
$ systemctl start docker
```

4. To verify that the Docker daemon is using the devicemapper storage driver use the docker info command

```
$ docker info
```

```
root@docker-2:~# docker info
Client:
 Debug Mode: false

Server:
 Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
 Images: 0
 Server Version: 19.03.12
 Storage Driver: devicemapper
  Pool Name: docker-8:1-258322-pool
```

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