# Module-7: Containerization using Docker Part - II

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# **DEMO-2: Using Volumes for Storage**

Note: All commands are executed as root.

### Creating a New Volume

1. Create a new Docker volume using the docker volume command

```
$ docker volume create <volumeName>
$ docker volume ls
```

2. To check the volume configuration use the inspect option

```
$ docker volume inspect <volumeName>
```

## Starting a container with a volume

1. To start a container with volume using -v flag

```
docker run -d \
--name <containerName> \
-v <volumeName>:<containerPath> \
imageName
```

Mounting a volume using the --mount flag

```
docker run -d \
--name <containerName> \
--mount source=<volumeName>, dst=<containerPath> \
nginx:latest
```

```
root@docker-1:~# docker run -d \
> --name nginx1 \
> -v vol1:/app \
> nginx:latest
925e3e69eab7d5bed256f0d04b4165f94800b95ce4add17d0c08ca26b906e48d
```

2. To verify the volume attached to the container we can run the inspect command and check under mounts section

```
$ docker inspect <containerName>
```