**Docker volume:**

* Docker containers are temporary whenever we removed the container all the data stored in the container will be gone.
* If we want to save the data separate from the container, we can use concept call volume this volume can be mounted on the docker container even after we remove the container also, we can be able to see the data which is stored in the volume.
* There are two types of volumes they are:

1.simple data volume:

* This can be used for only one container it is not possible to share this volume with other containers.

2.data volume:

* It can be shared between multiple containers.

Simple data volume scenario 1:

* Create a empty directory.
* Start a ubuntu container and mount / directory.
* Create few files into mounted / directory.
* Exit from the container.
* Remove the container.

Steps:

Create an empty directory.

>mkdir data2

Start a ubuntu container and mount / data as a volume.

>docker run -it –name mu -v / data2 ubuntu

In the ubuntu container create few files cd data2

>touch file1 file2

Exit from the container

>exit

To find the location where the mounted files are stored.

Json: search for mounts and copy the source path.

This is the physical location on the docker host where the files are actually stored.

Remove the container

>docker rm mu

Verify the folder in the local, machine

>ls

Cd data2

>ls (you find the zero files)

Create the container and mount the existing volume

>docker run -it --name mu -v /data2 ubuntu

Check the file

>ls

Cd data2

>ls

You will find zero files.