

DOCKER VOLUME

Mapping the volumes form Container to Container

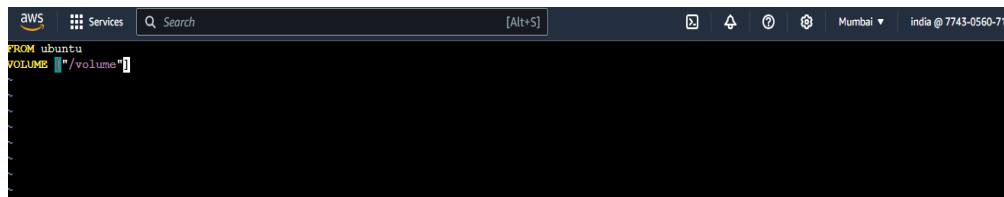
Step 1: Install Docker using the appropriate command.

- `yum install docker`
- `systemctl start docker`
- `systemctl status docker`

Step 2: Create a file named Dockerfile. Ensure the "D" is capitalized in the filename.

- Use **vi Dockerfile** to open the editor.
- **FROM** defines the base image.
- **VOLUME** specifies the volume directory name.

Step 3: Insert the instructions into the editor as demonstrated in the image below.

A screenshot of a terminal window with a dark background. The terminal shows a Dockerfile with two lines: `FROM ubuntu` and `VOLUME ["/volume"]`. The cursor is at the end of the second line. The terminal window has a title bar with 'aws', 'Services', a search bar, and a status bar with 'Mumbai' and 'India @ 7743-0560-71'.

Step 4: Build the image using the command.

- The command `'docker build -t imagec1'` is used to create the image.
- The command `'docker run -it --name cont-2 imagec1'` creates a container named cont-2 from image1, and it can be configured with a volume.
- A volume is created within the container, as illustrated in the image below.

```
aws Services Q Search [Alt+S] Mumbai india @ 7743-0560-
total 0
lrwxr-xr-x. 1 root root 21 Nov 19 07:24 ./
lrwxr-xr-x. 1 root root 21 Nov 19 07:24 ../
lrwxr-xr-x. 1 root root 0 Nov 19 07:24 .dockerenv*
lrwxrwxrwx. 1 root root 7 Apr 22 2024 bin -> usr/bin/
lrwxr-xr-x. 2 root root 6 Apr 22 2024 boot/
lrwxr-xr-x. 5 root root 360 Nov 19 07:24 dev/
lrwxr-xr-x. 1 root root 66 Nov 19 07:24 etc/
lrwxr-xr-x. 3 root root 20 Oct 16 07:00 home/
lrwxrwxrwx. 1 root root 7 Apr 22 2024 lib -> usr/lib/
lrwxrwxrwx. 1 root root 9 Apr 22 2024 lib64 -> usr/lib64/
lrwxr-xr-x. 2 root root 6 Oct 16 06:53 media/
lrwxr-xr-x. 2 root root 6 Oct 16 06:53 mnt/
lrwxr-xr-x. 2 root root 6 Oct 16 06:53 opt/
lr-xr-xr-x. 169 root root 0 Nov 19 07:24 proc/
lrwxrwxrwx. 2 root root 37 Oct 16 07:00 root/
lrwxr-xr-x. 4 root root 33 Oct 16 07:00 run/
lrwxrwxrwx. 1 root root 8 Apr 22 2024 sbin -> usr/sbin/
lrwxr-xr-x. 2 root root 6 Oct 16 06:53 srv/
lr-xr-xr-x. 13 root root 0 Nov 19 07:18 sys/
lrwxrwxrwx. 2 root root 6 Oct 16 07:00 tmp/
lrwxr-xr-x. 12 root root 133 Oct 16 06:53 usr/
lrwxr-xr-x. 11 root root 139 Oct 16 07:00 var/
lrwxr-xr-x. 2 root root 71 Nov 19 07:28 volume1/
root@df5f90a14ce6:/#
```

Step 5: We can use the following command to share the created volume between containers.

- **'docker run -it --name new cont name --volume-from cont name -privileged=true image name'**