

Docker

1. First, we launch one instance, connect the Linux.

2. Root user command **sudo su -**

3. Update the linux **yum update -y**

Next we install docker use this below command

yum install docker -y

Systemctl start docker

Systemctl status docker

sudo docker run -it ubuntu

Apt update

4. Create the container

5. **Docker run -it --name count1 ubuntu**

6. created one directory use this command **mkdir dir1**

7. just iam exist from the container **exit**

8. Check the how many containers you have in your local

docker ps

Docker ps -a

9. see the all the information in your container

docker inspect count1(container name)

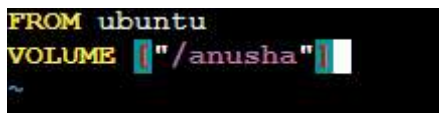
10. create volume there are two ways

a. container to container

b. host to container

Create the docker file

vi dockerfile



```
FROM ubuntu
VOLUME [\"/anusha\"]
```

11.

12. build the docker image use this command **docker build -t image .**

13. **docker run -it --name cont3 image ,ll**

14. **cd anusha**

15. **touch file1**

Show the files

```
root@ff501277978b:/anusha# ll
total 0
drwxr-xr-x. 2 root root  6 Nov  4 15:22 ./
drwxr-xr-x. 1 root root 20 Nov  4 15:22 ../
root@ff501277978b:/anusha# touch file1
root@ff501277978b:/anusha# ll
total 0
drwxr-xr-x. 2 root root 19 Nov  4 15:24 ./
drwxr-xr-x. 1 root root 20 Nov  4 15:22 ../
-rw-r--r--. 1 root root  0 Nov  4 15:24 file1
root@ff501277978b:/anusha#
```

16. Exit just give the **docker ps -a**

17. **docker run -it --name cont4 --privileged=true --volumes-from cont3 image**

Cd anusha ,ll

18. add another file **touch file2**

19. **docker attach cont3 ,ll**

Cd anusha ,ll

```
total 0
drwxr-xr-x. 2 root root 32 Nov  4 15:45 ./
drwxr-xr-x. 1 root root 32 Nov  4 15:22 ../
-rw-r--r--. 1 root root  0 Nov  4 15:24 file1
-rw-r--r--. 1 root root  0 Nov  4 15:45 file2
20. root@ff501277978b:/anusha#
```

21. **Cd ,ll, exit**

```

drwxr-xr-x. 2 root root 45 Nov  4 16:58 ./
drwxr-xr-x. 1 root root 32 Nov  4 15:22 ../
-rw-r--r--. 1 root root  0 Nov  4 15:24 file1
-rw-r--r--. 1 root root  0 Nov  4 15:45 file2
-rw-r--r--. 1 root root  0 Nov  4 16:58 file3
root@ff501277978b:/anusha# cd
root@ff501277978b:~# exit
exit
[root@ip-172-31-7-88 ~]# docker attach cont3
You cannot attach to a stopped container, start it
[root@ip-172-31-7-88 ~]# docker start cont3
cont3
[root@ip-172-31-7-88 ~]# docker attach cont3
root@ff501277978b:/#

```

Cd /

22. Delete the volume ,we cant delete the volume

23. Remove the container **mkdir dir2**

Rmkdir dir2

24. **docker run -it --name count -v/anu ubuntu ,ll**

25. **Cd anu ,ll**

26 . **touch file{1..3}**

27. **exit , docker ps -a**

28. **docker run -it --name cont6 --volumes-from count --privileged=true ubuntu ,ll**

29. To check the files are available are there

Cd anu , exit

30. create volume **docker volume create jeeva**

Docker volume ls

Docker volume inspect jeeva

31. Remove the volume

Docker volume rm jeeva

32. **cd /var/lib/docker/volumes/jeeva/_data ,ll**

touch file{1..4} ,ll

docker run -it --name cont7 --mount source=jeeva , destination=/jeevaM ubuntu,ll

34. Cd /

35. Cd jeevaM ,ll ,exit

36. docker run -it --name cont8 --privileged=true --volumes-from cont7 --privileged=true ubuntu,ll

37. cd jeevaM,ll

39. create container **volume**

docker run -it --name cont9 -v/abc ubuntu ,exit

40. Docker volume ls

41. Docker ps -a

42. Docker inspect cont9 see the info

43. Docker network ls

The default network is bridge network