



Experiment No. 2.3

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Branch: MCA–CCD

Semester: III

Subject Name: CONTAINERIZATION

WITH DOCKER

UID: 22MCC20177

Section/Group: MCD-1/A

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1. Aim/Overview of the practical:

a) Maintaining States with Docker Volumes.

2. Code for practical: (a)

Step 1: First create a volume and inspect.

```
PS C:\Users\Pinda> docker volume create state

PS C:\Users\Pinda> docker volume inspect state

{
        "CreatedAt": "2023-11-04T09:15:54Z",
        "Driver": "local",
        "Labels": null,
        "Mountpoint": "/var/lib/docker/volumes/state/_data",
        "Name": "state",
        "Options": null,
        "Scope": "local"
    }
}
```

Step 2: Create a container using image with some additional flags:

- -v for volume
- -it for interaction mode
- --name container name

PS C:\Users\Pinda> docker run -it -v state:/var/local --name linux1 ubuntu

Step 3: Container is in running state.

- Specify the path.
- Create some files or data in the running container, then exit and remove the container.

```
root@3d1ad2887030:/# cd var/local
root@3d1ad2887030:/var/local# echo "Managing States with Docker Volumes" > state.txt
root@3d1ad2887030:/var/local# ls
state.txt
```





Step 4 : After removing the previous container, Now Create another container same with -v -it or –name flag.

- Specify the path.
- List the files.

PS C:\Users\Pinda> docker run -it -v state:/var/local --name linux2 ubuntu root@cbfc43a850da:/# cd var/local root@cbfc43a850da:/var/local# ls state.txt root@cbfc43a850da:/var/local# cat state.txt Managing States with Docker Volumes

Step 5: Previous generated file is visible that means different containers are using the same volume.