

Bind Mount Commands

1: Create a Directory for the Bind Mount.

```
mkdir "$(pwd)"/target
```

```
ls
```

```
Last login: Wed Apr 24 07:33:22 2024 from 18.206.107.29
ubuntu@ip-172-31-83-79:~$ sudo mkdir $(pwd)/target
ubuntu@ip-172-31-83-79:~$ ls
backup.tar  calico.yaml  external-storage  install.sh  target
ubuntu@ip-172-31-83-79:~$
```

2: Run a Container attached to a Bind Mount.

```
docker run -d --name <name-of-container> --mount type = bind,
source = <name-of-volume>, target = <target-path><image-name>
```

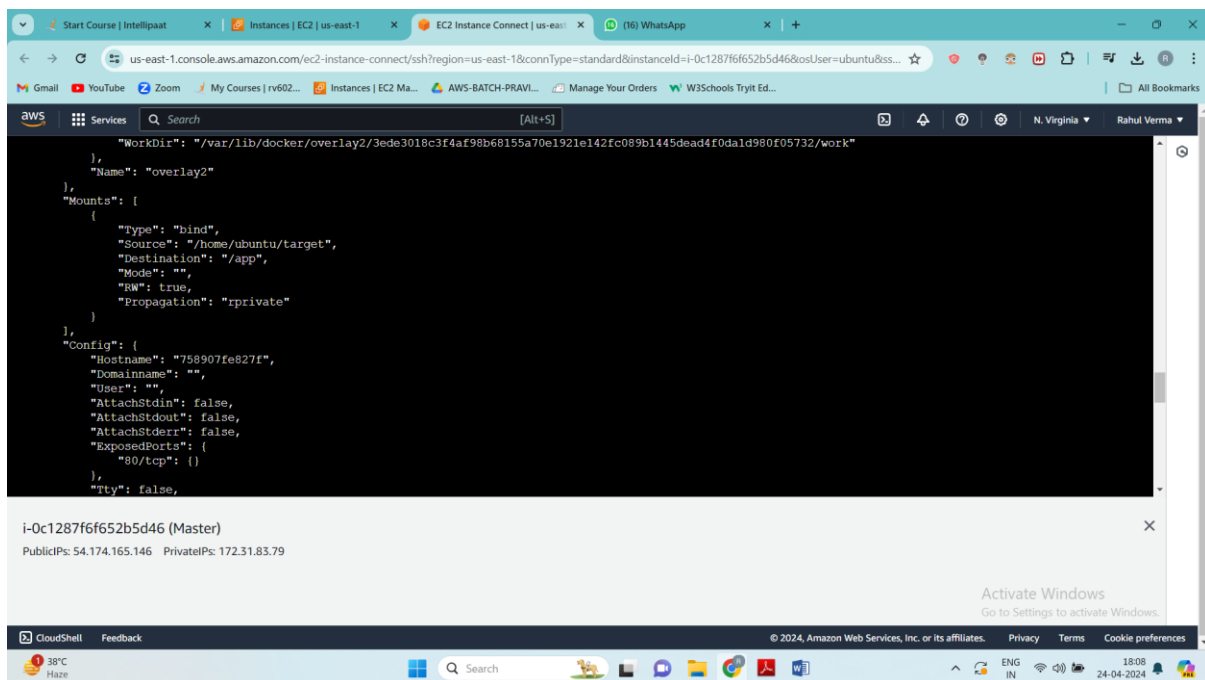
```
ubuntu@ip-172-31-83-79:~$ sudo su
root@ip-172-31-83-79:/home/ubuntu# docker run -d --name Bind-container --mount type=bind,source=$(pwd)/target,target=/app nginx:latest
758907fe827f876e4dd49baf888d117b41302f7d3d3dd7f5b5bd3e762d747680
root@ip-172-31-83-79:/home/ubuntu# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
758907fe827f	nginx:latest	"/docker-entrypoint..."	10 seconds ago	Up 8 seconds	80/tcp	Bind-container

```
root@ip-172-31-83-79:/home/ubuntu#
```

Now let's check if the bind mount is mounted to container or not

docker inspect <container_id>



3: Now let's create a read-only Bind Mount.

docker run -d --name test --mount type = bind, source = <name-of-volume>, target = <target-path>, readonly

```

root@ip-172-31-83-79:/home/ubuntu# docker run -d --name new-bind --mount type=bind,source=$(pwd)/target,target=/app,readonly nginx:latest
97f6c4e5dd285f4f8fe586431c540672614f4d5980461b4d4f5c6ba26d49b11e
root@ip-172-31-83-79:/home/ubuntu# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
97f6c4e5dd28   nginx:latest  "/docker-entrypoint..."  5 seconds ago  Up 5 seconds  80/tcp       new-bind
758907fe827f   nginx:latest  "/docker-entrypoint..."  11 minutes ago  Up 11 minutes  80/tcp       Bind-container
root@ip-172-31-83-79:/home/ubuntu#

```

And if we try to create some file in it it will show error

```

root@ip-172-31-83-79:/home/ubuntu# docker exec -it 97f6c4e5dd28 bash
root@97f6c4e5dd28:/# cd app
root@97f6c4e5dd28:/app# touch hell.txt
touch: cannot touch 'hell.txt': Read-only file system
root@97f6c4e5dd28:/app#

```