Docker Compose

- ## **Steps**

ls

mkdir compose

cd compose

vi docker-compose.yml

version: "3.9"
services:
  nginx:
    image: nginx:latest
    container_name: nginx-container
    ports:
    - 80:80

docker-compose ps

```
ubuntu@ip-172-31-27-216:~$ ls
Docker  awscliv2.zip  flask  nodejs
ubuntu@ip-172-31-27-216:~$ mkdir compose
ubuntu@ip-172-31-27-216:~$ cd compose
ubuntu@ip-172-31-27-216:~/compose$ vi docker-compose.yml
ubuntu@ip-172-31-27-216:~/compose$ docker-compose ps
Command 'docker-compose' not found, but can be installed with:
sudo snap install docker          # version 28.4.0, or
sudo apt  install docker-compose  # version 1.29.2-6
See 'snap info docker' for additional versions.
```

sudo apt update

```
ubuntu@ip-172-31-27-216:~/compose$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [378 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7312 B]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [10.5 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:13 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [71.5 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:16 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Fetched 1044 kB in 1s (1123 kB/s)
Reading package lists... Done
Building dependency tree... Done
```

apt install docker-compose -y

```
ubuntu@ip-172-31-27-216:~/compose$ sudo apt install docker-compose -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-compose python3-docker python3-dockerpty python3-docopt python3-dotenv python3-texttable python3-websocket
The following NEW packages will be installed:
  docker-compose python3-compose python3-docker python3-dockerpty python3-docopt python3-dotenv python3-texttable python3-websocket
0 upgraded, 8 newly installed, 0 to remove and 46 not upgraded.
Need to get 297 kB of archives.
After this operation, 1589 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-websocket all 1.7.0-1 [38.1 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-docker all 5.0.3-1ubuntu1.1 [89.1 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-dockerpty all 0.4.1-5 [11.4 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-docopt all 0.6.2-6 [26.1 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-dotenv all 1.0.1-1 [22.3 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-texttable all 1.6.7-1 [11.0 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-compose all 1.29.2-6ubuntu1 [84.6 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 docker-compose all 1.29.2-6ubuntu1 [14.0 kB]
Fetched 297 kB in 0s (9553 kB/s)
Selecting previously unselected package python3-websocket.
(Reading database ... 104722 files and directories currently installed.)
Preparing to unpack .../0-python3-websocket_1.7.0-1_all.deb ...
Unpacking python3-websocket (1.7.0-1) ...
Selecting previously unselected package python3-docker.
Preparing to unpack .../1-python3-docker_5.0.3-1ubuntu1.1_all.deb ...
```

docker-compose - -version

docker-compose ps

```
ubuntu@ip-172-31-27-216:~/compose$ docker-compose --version
docker-compose version 1.29.2, build unknown
ubuntu@ip-172-31-27-216:~/compose$ docker-compose ps
Name    Command    State    Ports
----------------------------
```

docker-compose up -d

docker-compose ps

```
ubuntu@ip-172-31-27-216:~/compose$ docker-compose up -d
Creating network "compose_default" with the default driver
Creating nginx-container ... done
ubuntu@ip-172-31-27-216:~/compose$ docker-compose ps -a
      Name                      Command             State                     Ports
------------------------------------------------------------------------------------
nginx-container    /docker-entrypoint.sh ngin ...    Up        0.0.0.0:80->80/tcp,:::80->80/tcp
ubuntu@ip-172-31-27-216:~/compose$ 
```

Copy public ip and paste on incognito mode and run