Docker Compose

Docker Compose: Docker Compose is a tool for defining and running multi-container applications. It is the key to unlocking a streamlined and efficient development and deployment experience.

1. The Compose file provides a way to document and configure all of the application's service dependencies (databases, queues, caches, web service APIs, etc).

2. Using the Compose command line tool you can create and start one or more containers for each dependency with a single command (docker compose up).

- To Compose the docker.

- 1st we have to install the Docker   in Linux {yum install docker}

- After the installation we have to download the docker compose[sudo curl -fsSL https://github.com/docker/compose/releases/download/v2.30.3/docker-compose-linux-x86_64 -o /home/docker-compose]. Here we can defined the path where we want to download our docker compose in place of the /home/docker-compose we can give any path.

- Now start the Docker{systemctl start docker}

- Now go to the path of docker-compose file where we downloded.

- Give the execution permmission to th docker file{chmod +x docker-compose}

- Create one file by extension *yml*{vi docker-compose.yml}.

- Add the container as showan below.

root@ip-172-31-26-39:/usr/local/bin

```
version: '3'
services:
  webapp1:
    image: nginx
    container_name: my_webapp1
    ports:
      - "8000:80"
  webapp2:
    image: nginx
    container_name: my_webapp2
    ports:
      - "8001:80"
```

- Now save and exit(:wq!).

- To the run the container at a time, Give the Command {docker-compose up -d}

- And can see the containers strart at time.(to check running Conatiners {docker ps}