Installing Docker on ubuntu

#!/bin/bash

# Add Docker's official GPG key:

sudo apt-get update

sudo apt-get install ca-certificates curl

sudo install -m 0755 -d /etc/apt/keyrings

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc

sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:

echo \

"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \

$(. /etc/os-release && echo "${UBUNTU\_CODENAME:-$VERSION\_CODENAME}") stable" | \

sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

sudo apt-get update

# Install Docker packages

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

# Adding Docker Group and User

sudo groupadd docker

sudo usermod -aG docker $USER

newgrp docker

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docker images – list available images

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docker pull nginx – pull nginx from docker hub

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docker rmi 2c849dee4ca9 // removes the docker images

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docker ps -a // list all containers including stopped ones

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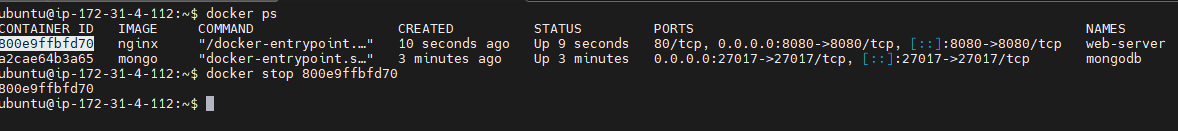
Run container

docker run -d -p 27017:27017 -e MONGO\_INITDB\_ROOT\_USERNAME=admin -e MONGO\_INITDB\_ROOT\_PASSWORD=amal.123 --network mongo-network --name mongodb mongo

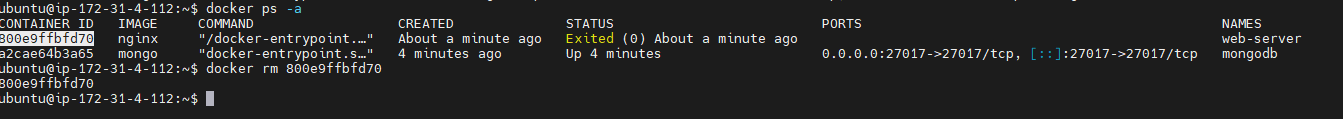
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docker stop 800e9ffbfd70 // to stop a container



docker rm 800e9ffbfd70 // to remove a container



docker network create mongo-network // to create docker network

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docker network connect mongo-network 07e159dc9b4c // connecting container to a network

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docker network rm mongo-network // to remove a network

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docker volume create mysql\_data

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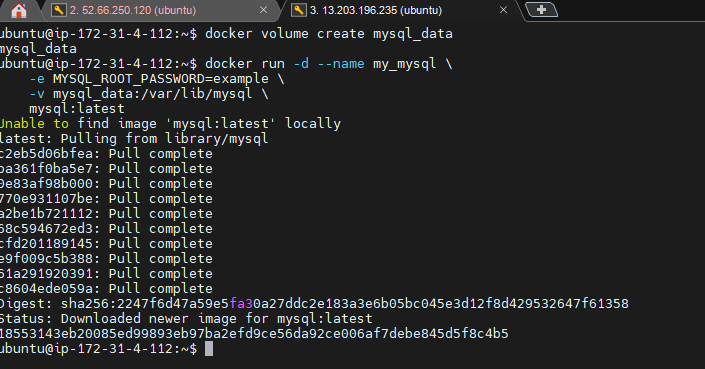
Attaching a volume to a container

docker run -d --name my\_mysql \

-e MYSQL\_ROOT\_PASSWORD=example \

-v mysql\_data:/var/lib/mysql \

mysql:latest



docker volume ls – to list all volumes

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docker volume rm mysql\_data

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