**AWS command line interface tool**

<https://awscli.amazonaws.com/AWSCLIV2.msi>

write this in cmd:- aws appwiz.cpl

**AWS User Data**

#!/bin/bash

yum update -y

yum install -y httpd

systemctl start httpd

systemctl enable httpd

yum update -y

yum install -y firewalld

systemctl start firewalld

systemctl enable firewalld

**Docker Engine Installation**

Step-1

Sudo su -

Vi instance\_name.sh

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Step-2 paste all these codes

sudo yum update -y

sudo yum search docker

sudo yum info docker

sudo yum install -y docker

sudo systemctl enable docker.service

sudo systemctl start docker.service

sudo systemctl status docker.service

docker version

sudo curl -L https://github.com/docker/compose/releases/download/1.22.0/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

docker-compose version

step-3

click on escape button

:wq

sh instance\_name.sh

q

docker info

sudo su –

docker images (Show all locally stored images)

docker ps (status to check the list of running containers)

docker pull ubuntu (pulling from registry)

docker images

docker run -it -d ubuntu

docker ps (status to check the list of running containers)

docker pull centos (pulling from registry)

docker images

docker run -it -d centos

docker ps

docker stop <continer id>

docker ps

docker ps -a

docker start <continer id>

docker ps

docker ps-a

only if you want to delete container ids

docker ps -a

Docker Compose

“Docker compose is a tool for defining and running multiple containers, we can run multiple containers as a single service”.

1. It is written in YAML language with the extension of yml

Docker compose is a tool for defining and running multi-container Docker applications. With Compose, you use a YAML file to configure your application’s services.

Vi docker-compose.yml

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paste below mentioned commands

version : '3'

services:

web:

image: nginx

ports:

- 4000:80

db:

image: redis

enter escape key

:wq

Docker-compose up -d

Docker-compose down

Docker ps

Volume

Volumes are the preferred mechanism for persisting data generate and used by docker container

1. In docker when we create a container there has to be some place to store the data. That is called volume

In volumes we have 2 types.

1. Anonymous volume
2. Named volume

Paste these commands

cd /var/lib/docker/volumes