Writeup

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1. Create 3 AWS EC2 instances with same key pair and same security group and name one has “DockerSwarm”,”swarm-w1”,”swarm-w2”. In the security group add the inbound rule All traffic with port 80 with in the security group.
2. While creating the instance under advance tab run with the following commands

**#!/bin/bash**

**sudo yum update -y** [to update the instance]

**sudo yum install -y docker git** [to install docker and git into the instance]

**sudo systemctl start docker** [to start the docker]

**sudo systemctl enable docker** [to enable the docker]

**sudo usermod -aG docker ec2-user**

**sudo docker version** [to check the installed docker version]

1. In this instance first connect to the ec2 instance connect, then check the docker version using docker -v and git version using git -v then

Git clone <https://github.com/Gopalakrishnan20/Event-management-app.git> this repo into the instance

Then goto the folder using 🡪 **cd angularimage/evntmgt**

Then build the image with command using 🡪 **“docker build -t eventmgtimage”**

Then run the image in the container using built image 🡪

**“docker container run -d –name myweb1 -p 80:80 eventmgtimage”**

Then login to the docker hub 🡪 **docker login**

Then tag the image using 🡪 **docker tag eventmgtimage sona1997/e1**

Here “sona1997” is the docker hub username

The push the image to docker hub **🡪 “docker push sona1997/e1”**

Then run the container **🡪 “docker container run -d –name sswe -p 80:80 sona1997/e1”**

1. Then take the public ip of the instance and run with port 80 to see the event management app running in the container.
2. Putty into the swarm master, swarm-w1 and swarm-w2 instnces using public ip and ppk file downloaded during the instance creation.
3. Then In the master instance run cmd

**“docker swarm init –advertise-adr <private ip of master instance>”**

We will get a master token to join to itself

Then in the swarm-w1 and swarm-w2 use the token to join using



Then we nodes will get joined.

1. Then in the master instance use the cmd to check all the nodes joined to it

**“docker node ls”**

1. Then create a service using

**“docker service create –name myapp1 –replicas 5 -p 80:80 sona1997/e1”**

We can see the all the service converged which means they are up and running

1. to see the running services

**“docker service ps myapp1”**

1. Then using the public ip and port 80 like “52.221.170.53:80” we can see event management app running in all the 3 nodes.