Mesos-Marathon

Setup a single mesos-master, marathon and mesos-slave. Try launching a docker app via marathon on the mesos-slave."

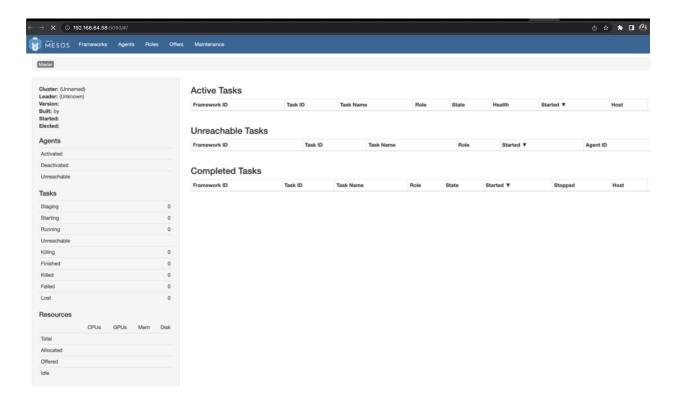
Ans:

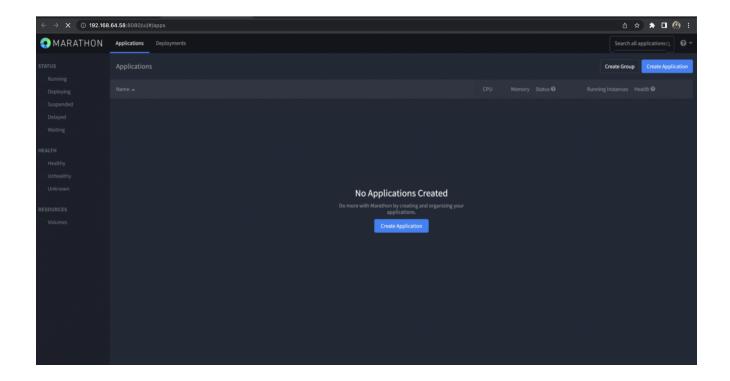
- 1. Install java 8 using the command "sudo apt-get install -y openjdk-8-jdk". This serves as a dependency of Mesos and Marathon.
- 2. Add the mesos repository in /etc/apt/sources.list.d /mesosphere.list deb http://repos.mesosphere.com/ubuntu xenial main
- 3. Install mesos by running the following command "sudo apt-get install mesos" 4. Install marathon by running the following command "sudo apt-get install marathon"
- 5. Install docker engine by running the following command "sudo apt-get install docker io"
- 6. To check the status of docker engine run the "sudo systemctl status docker" command. On the successful installation of Docker Engine, it will show the status of docker engine as Active.
- 7. Now start the Mesos-Master service by executing the following command service mesos-master start
- 8. Configure mesos and docker containerizer by creating containerizer file inside /etc/mesos-slave/containerizers

docker, mesos

- 9. Now start the Mesos-Slave service by executing the following command service mesos-slave start
- 10. Go to sudo vi /etc/default/marathon file and add these lines

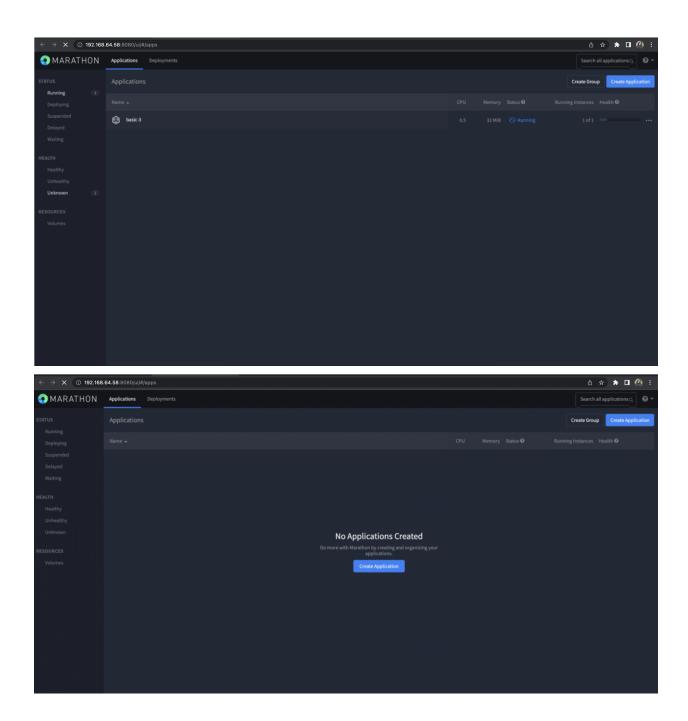
11. After following the above steps, one can access Mesos UI Dashboard at port 5050 and Marathon UI Dashboard at port 8080.





- 12. To verify all the components such as mesos-master, mesos-slave, zookeeper and marathon are active and running, run "sudo systemctl status <component>" command.
- 13. Create an app.json file.

- 14. Create an application using curl command curl -X POST http://127.0.0.1:8080/v2/apps -d @app.json -H "Content-type: application/json"
- 16. On opening the marathon UI dashboard on the browser, we can view the application is running.



17. Run "docker ps"

```
Marathon@Mesos:"$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
16edd0b24d47 alpine "/bin/sh -c 'alpine ..." 12 seconds ago Up 2 seconds 0.0.0.0:31211
p mesos-e96f7b93-a658-46d0-88b3-a0cb73ef24ef
```