## **IMPLEMENTATION BY USING DOCKER SWARM**

Step 1: Launch one instance and connect with the created instance.

• Switch to the root user by using the command "sudo su -".

Step 2: Install the docker in a terminal and start the docker and check the status by using the following commands.

- yum install docker Install docker
- **systemctl start docker** -To start docker
- systemctl status docker -To check the status of docker

Step 3:Create the docker file by using the command "vi Dockerfile" in that you may perform the following instruction as shown in the below figure.

```
FROM ubuntu
RUN apt update -y
RUN apt install apache2 -y
COPY index.html /var/www/html
LMD ["/usr/sbin/apachectl", "-D", "FOREGROUND"]
```

Step 4: Perform the command called "vi index.html". Here insert the html code in that as shown in the below figure.

Step 5: Build the image by using the command.

• "docker build -t image1 ." as shown in the below figure.

Step 6: Switch to the docker hub and create on repository.

• Switch to the terminal perform the command called "docker tag image1 haneef945/repo1".

Step 7: Perform the command "docker login".

- Here have to provide the username and password of a dockerhub account, Example.
- Username: \*\*\*\*\*\*\*
- Password:\*\*\*\*\*\*\*\*\*

Step 8: Push the image into your docker hub repository by using the following command.

• "docker tag image1 haneef945/repo1".

Step 9: Initalize the swarm docker by using the following command.

• "docker swarm init" - Used to create the Manager node and it generates the token as shown in the below figure.

```
[root@ip-172-31-4-167 ~] # docker swarm init
Swarm initialized: current node (kw364ph1k1ih0y5q5va3ege66) is now a manager.

To add a worker to this swarm, run the following command:

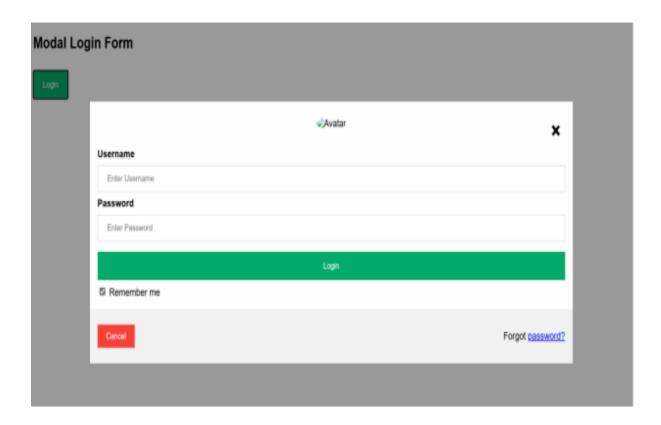
docker swarm join --token SWMTKN-1-1n3h4tjnxdsfw3qzeo9n1a9ze6bszi24poe737z17rj6yqsxlw-0ykcwbha11hgqoa50x114ve4q 172.31.4.167:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
```

Step 10: Create the service by using the following command.

- "docker service create –name cont1 –publish 8000:80 image1".
- Here the service is created as well as the container also created as shown in the given figure.

• Copy the public IP and enter in a google with the port number you can access output as shown in the figure.



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Repeat Password
By creating an account you agree to our Terms & Privacy.
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