1. Deploy a sample HTML website in any apache container, and demonstrate how we can

dynamically change content in the container by making changes on the host machine ( Bind

Mounts)

FROM ubuntu:18.04

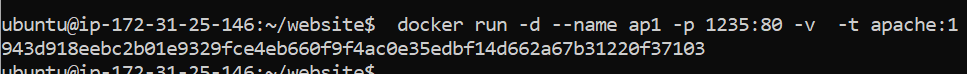
RUN apt-get update

RUN apt-get install -y apache2

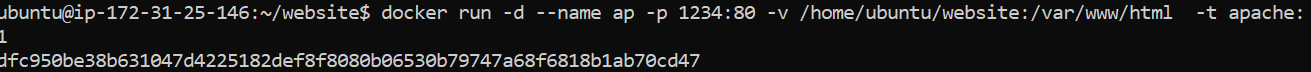
COPY index.html /var/www/html

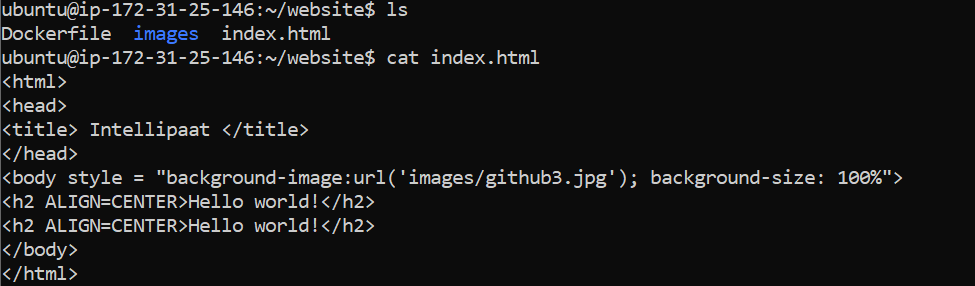
CMD apachectl -D FOREGROUND

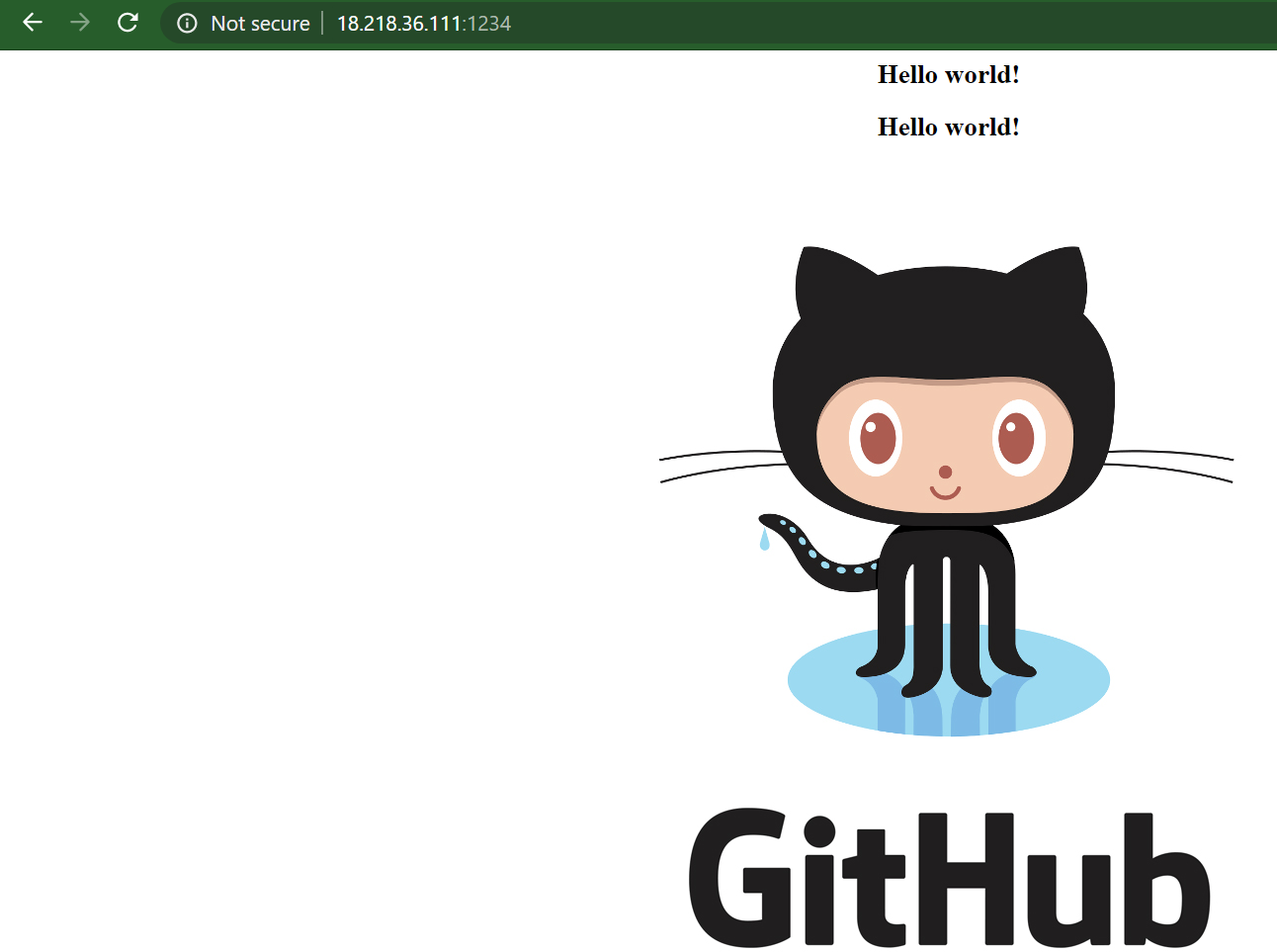
EXPOSE 80











2. Deploy apache and nginx containers using Docker Compose, Apache should be exposed onPort 91 and nginx on port 92

version: '3.3'

services:

webserver:

image: nginx

ports:

- 92:80

networks:

- app-network

apache:

image: bitnami/apache:2.4

ports:

- 91:8080

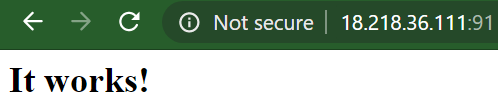
networks:

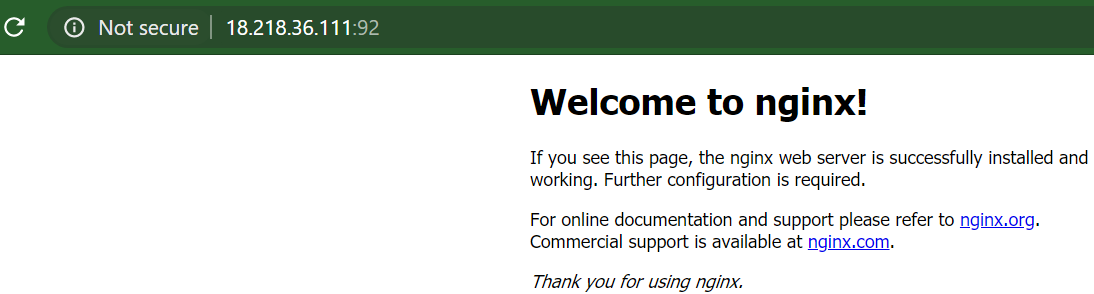
- app-network

networks:

app-network:

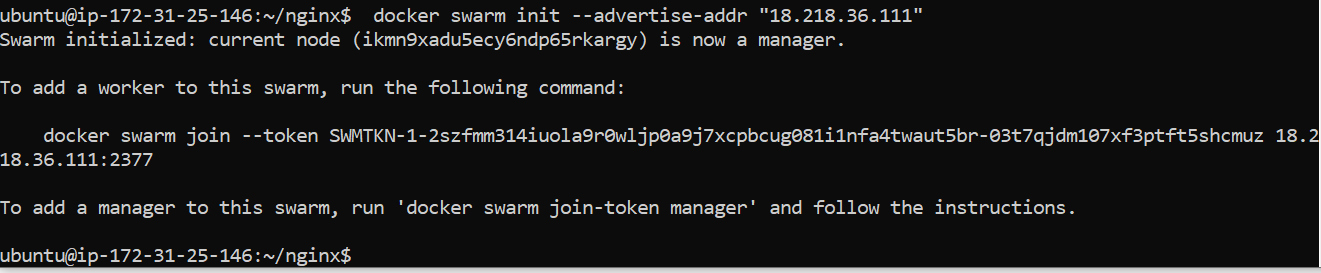
driver: overlay

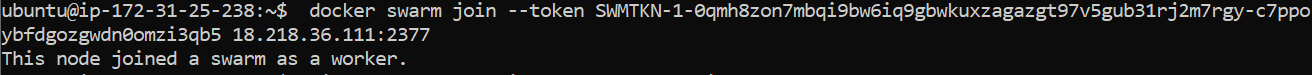




3. Initialize a Docker Swarm Cluster, and deploy two ubuntu containers in a overlay network.

Demonstrate they can communicate with each other, by pinging them

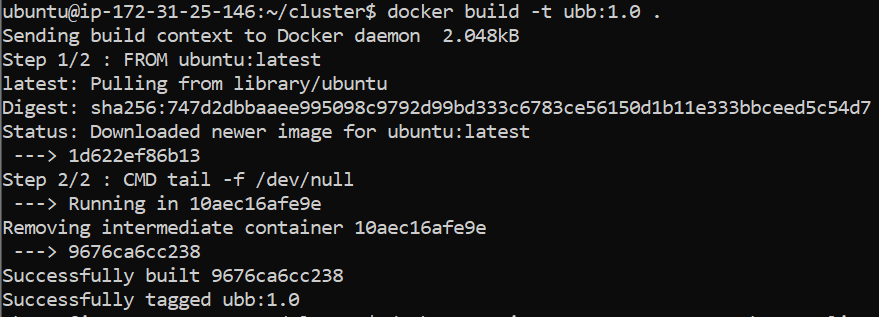


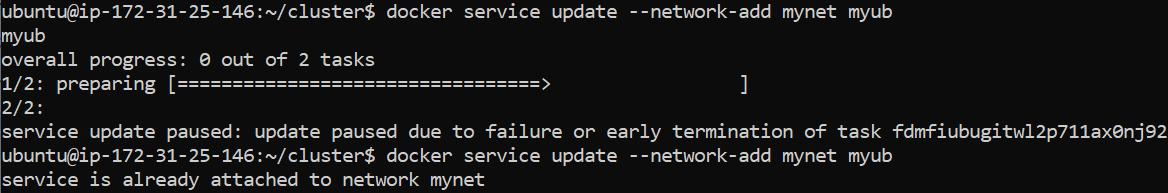


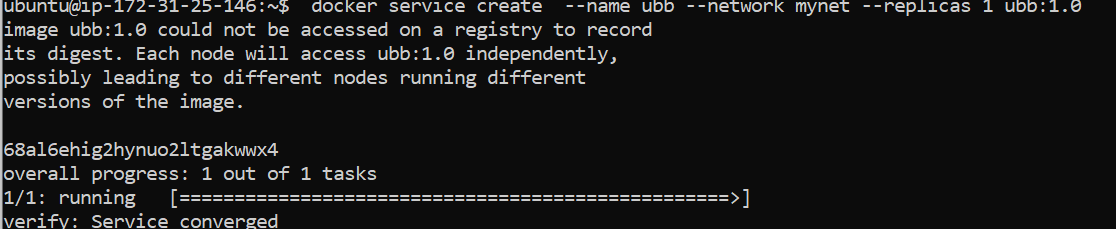
ubuntu@ip-172-31-25-146:~/cluster$ cat Dockerfile

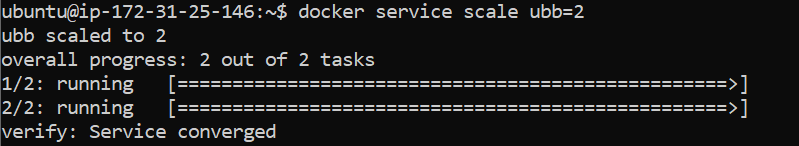
FROM ubuntu:latest

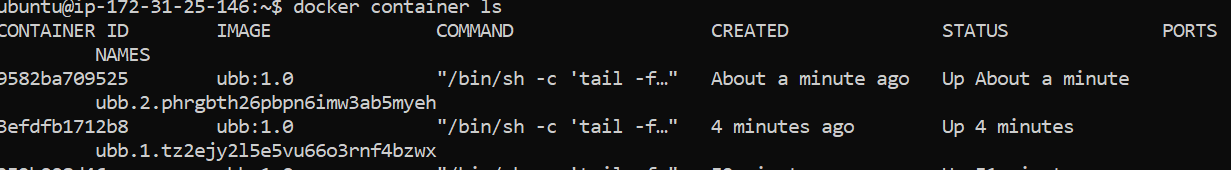
CMD tail -f /dev/null

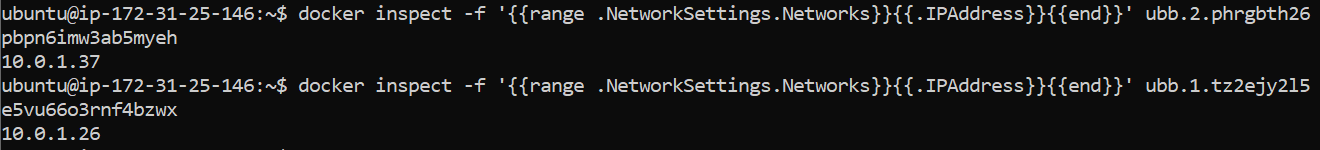












Ping works.

