NIPUN SINGAL
500069052
R171218069
DevOps-III

Application Containerization Lab

EXPERIMENT-4

Create the network and connect with the container

Step1- create the docker network using the command-
docker network create [network-name]

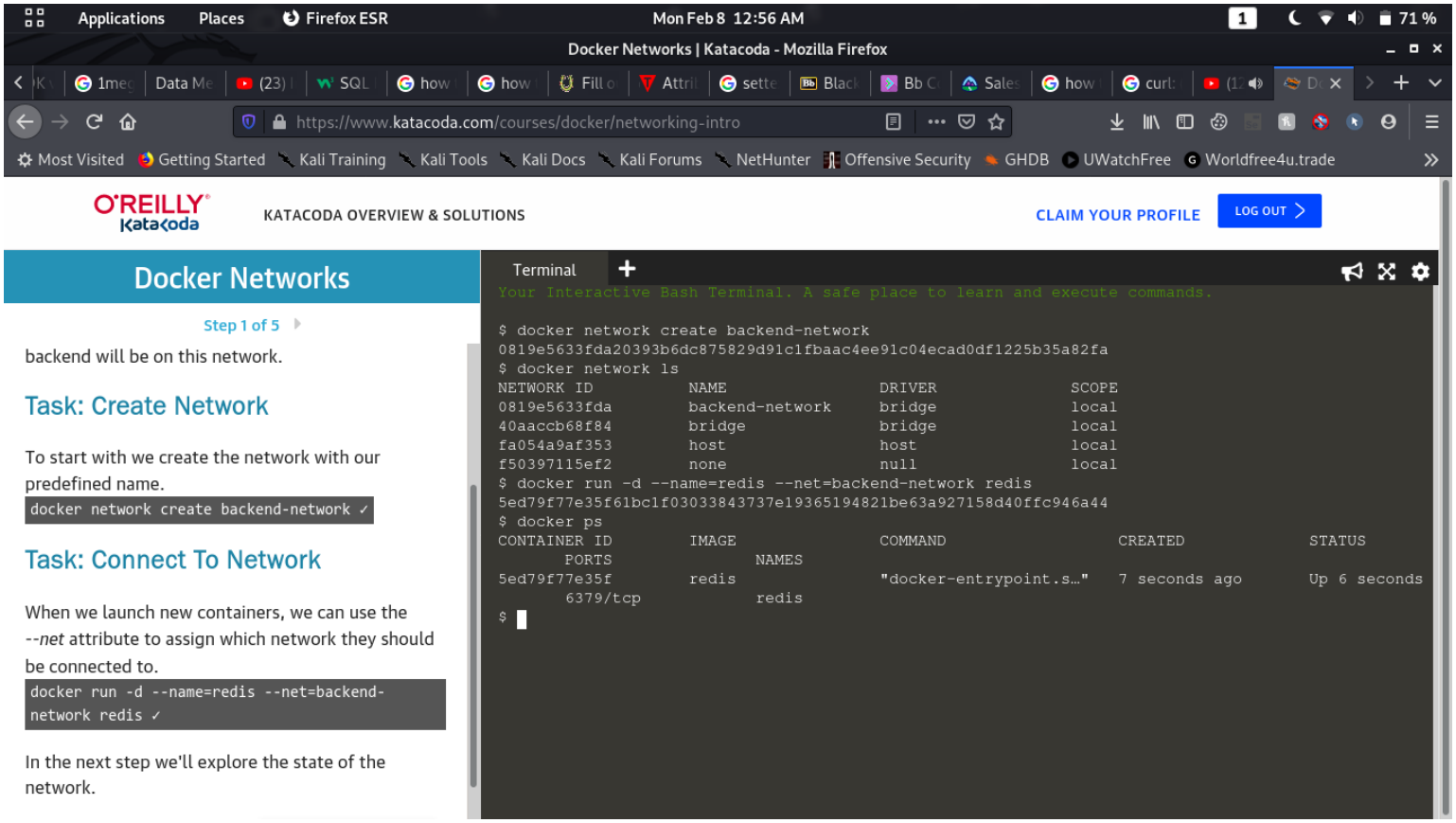
Step2- to list all the network type
docker network ls

Step3- create a container and connect it to the network we created above

docker run -d --name=[container-name] --net=[network-name] [image-name]

Step4- To check all running containers

docker ps

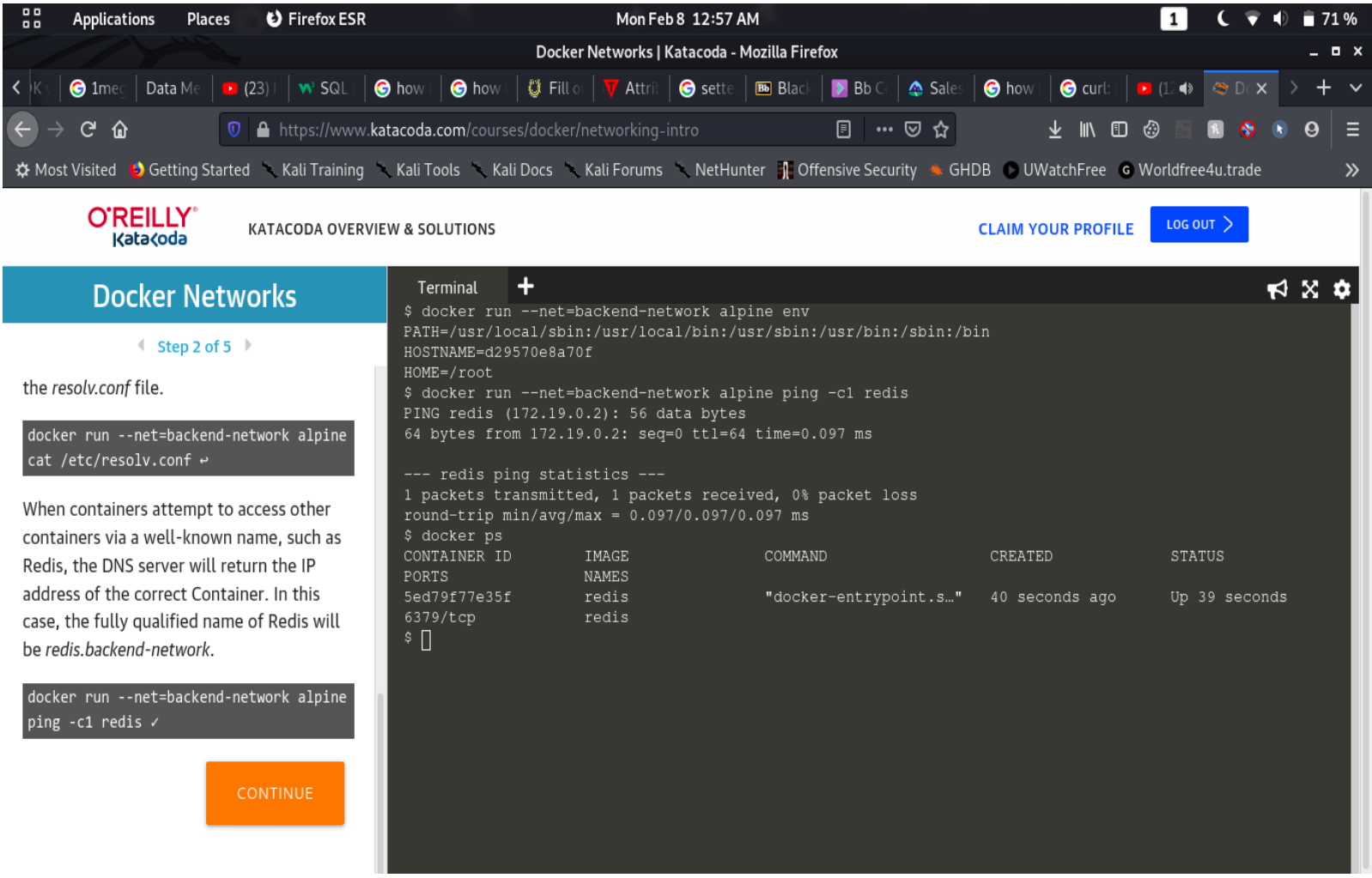


Step5- Now run another container and connect it to the same network and ping the other container we created earlier

docker run --net=[network-name] [image-name] ping c1 [already created container name]

c1, it is used to ping only once. If note used it will ping infinetly

note: do not use -d, it will not show the output if used



Step6- Create another network

docker network create [network-name]

Step7- To connect an existing container to network use the command

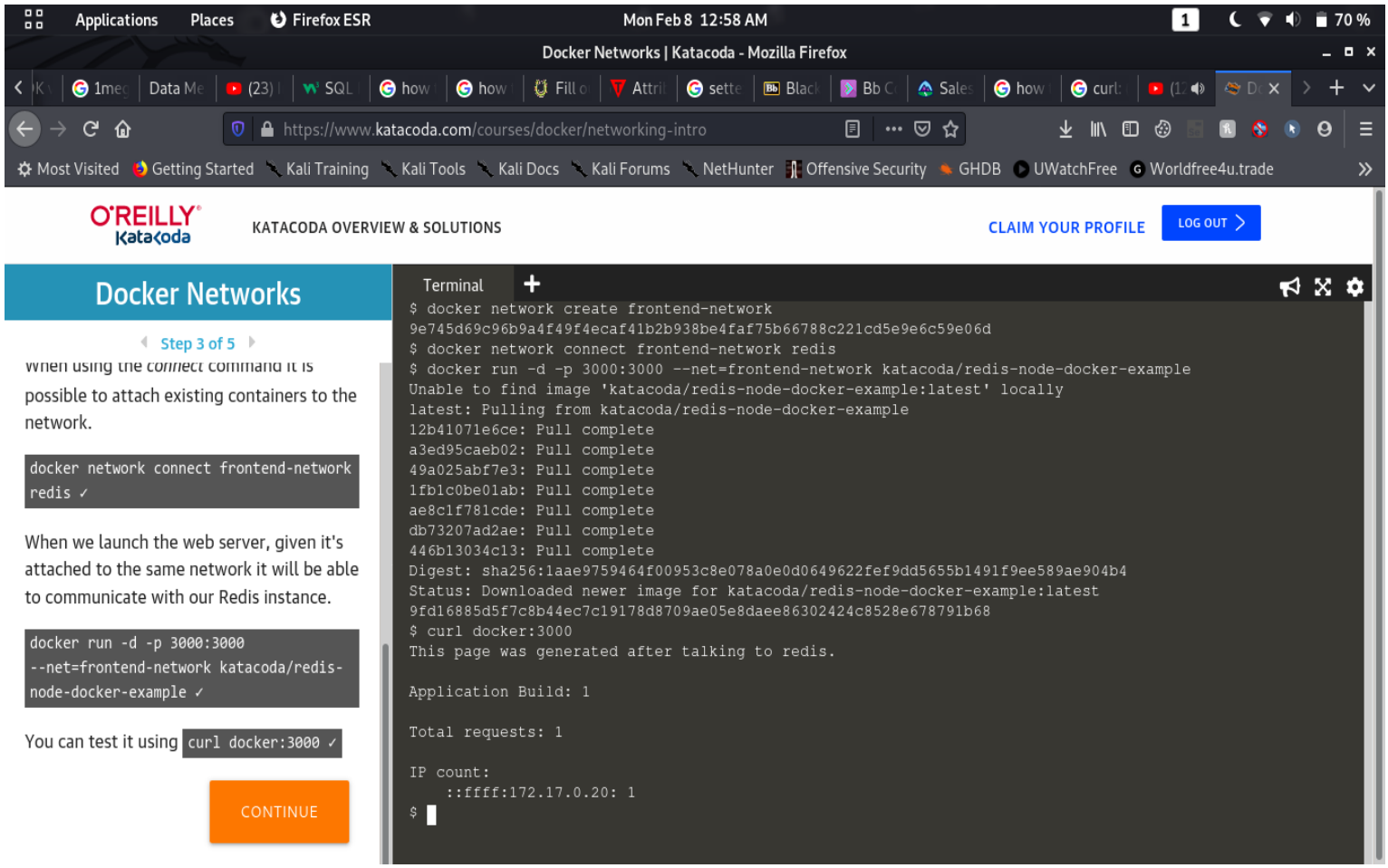
docker network connect [network-name] [image/container name]

Step8- connect the web server with the same network our container is connected. We will also use port mapping in it

docker run -d -p 3000:3000 --net=[network-name] [docker-hub repository]/[image-name]

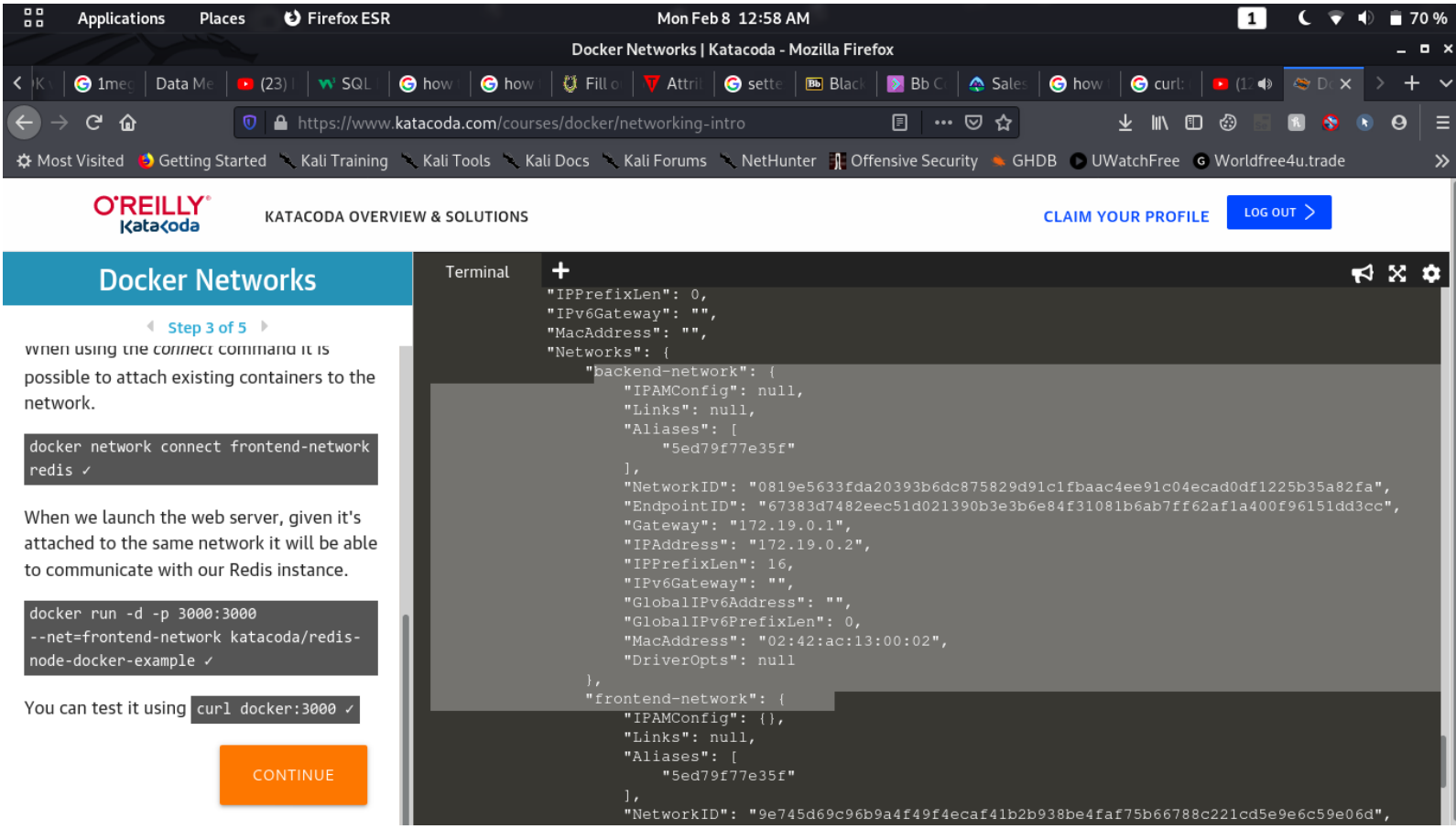
Step9- we can test the connection using curl command

curl docker:3000



Step10- to check the networks connected to a container or see the container details, we need to inspect the container

docker inspect [container-name]

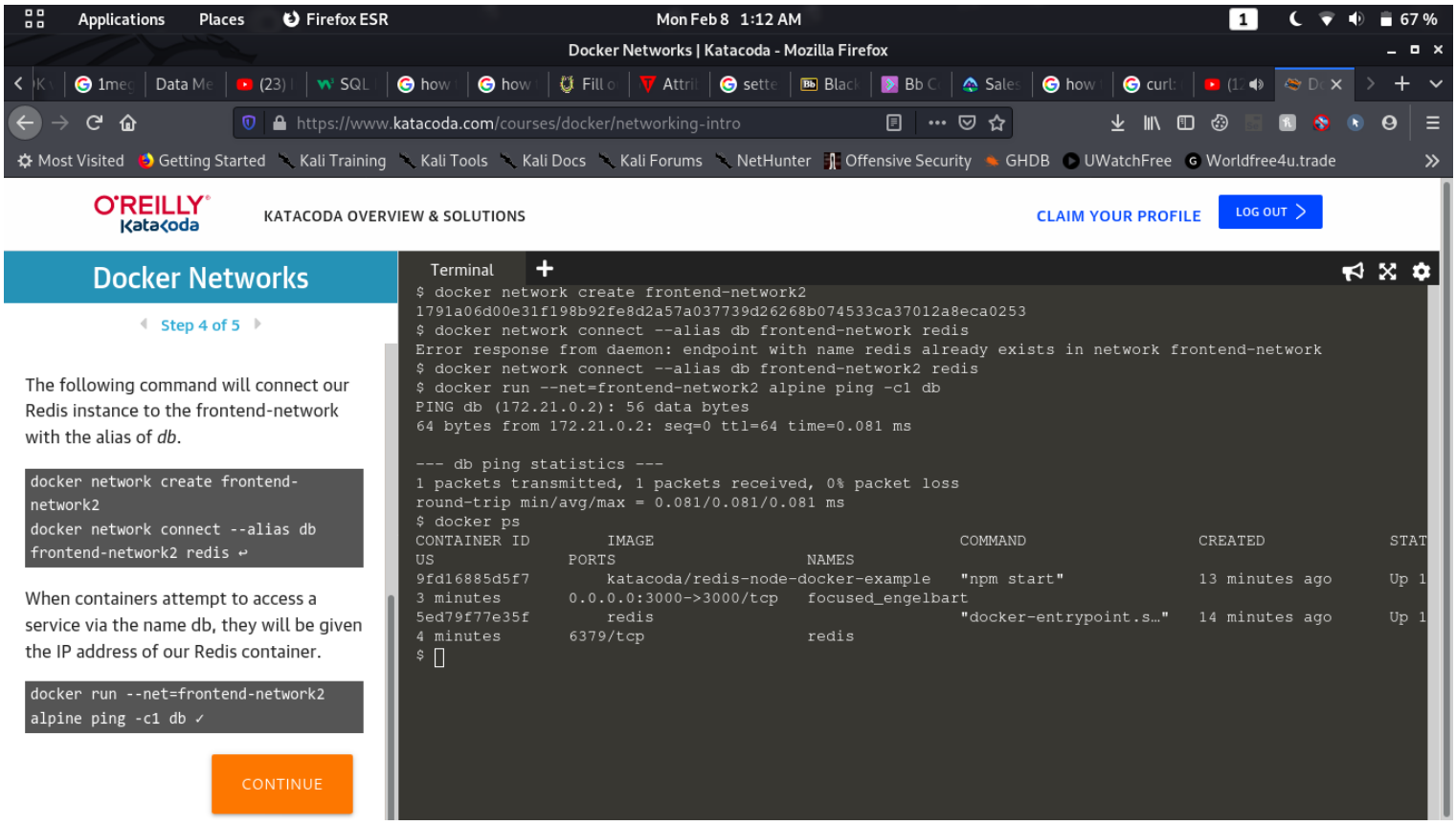


Step11- Create another network and connect that network to a container using alias option. Alias is used to give a name to the container on the network and do not reveal the real name of the container to others on network

docker network create [network-name]
docker network connect --alias [name] [network-name] [container-name]

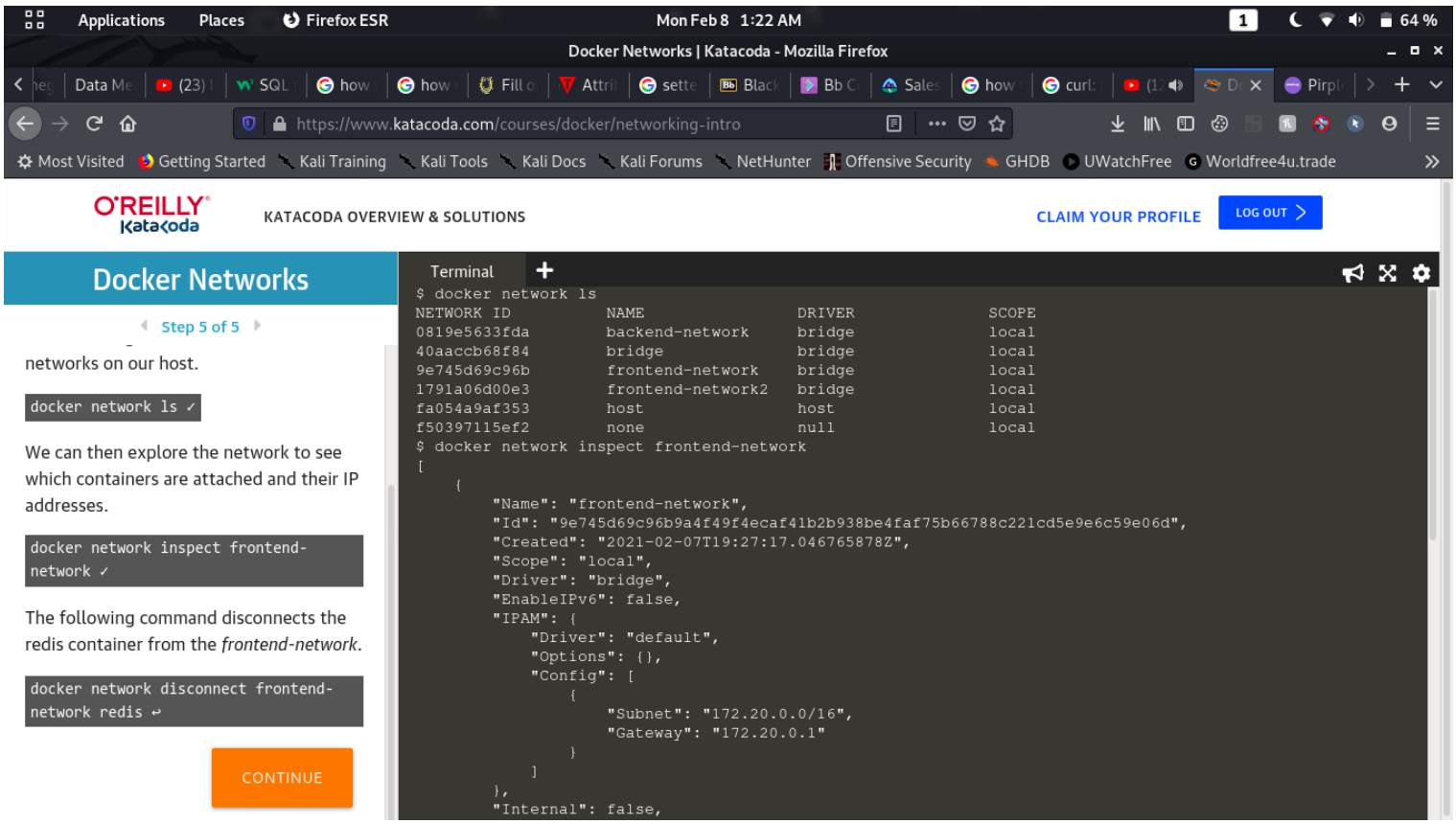
Step12- Now run a new container, connect to the network created in step11 and ping the container of step11 using alias name

docker run –net=[network-name] [image-name] ping -c1 [alias-name of another container]



Step13- we can inspect the network or see network details using

docker network inspect [network-name]



Step14- To disconnect a network from the container we use the command

docker network disconnect [network-name] [container-name]