DevOps Certification Training

Module-9: Kubernetes Assignment - 2

You have been asked to:

- Use the previous deployment
- Create a service of type NodePort for nginx deployment
- Check the nodeport service on a browser to verify

```
root@ip-172-31-25-208:~# kubectl get deployment
NAME                   READY   UP-TO-DATE   AVAILABLE   AGE
apache                 0/1     1            0           18m
apache2                0/1     1            0           26m
apache3                1/1     1            1           11m
jenkins                0/1     1            0           25h
jenkins1               1/1     1            1           25h
kubernetes-bootcamp    1/1     1            1           47h
nginx                  2/2     2            2           26h
nginx1                 3/3     3            3           25h
root@ip-172-31-25-208:~# kubectl get rs
NAME                          DESIRED   CURRENT   READY   AGE
apache-7cd4d4d49              1         1         0       18m
apache2-7bb4f968bc            1         1         0       26m
apache3-7b4964b898            1         1         1       12m
jenkins-7b4ccb558f            1         1         0       25h
jenkins1-574d8dd68            1         1         1       25h
kubernetes-bootcamp-59d54f7f6f 1        1         1       47h
nginx-74d589986c              2         2         2       26h
nginx1-7568844dcd             3         3         3       25h
root@ip-172-31-25-208:~# kubectl expose deployment nginx1 --type="LoadBalancer" --port=80
Error from server (AlreadyExists): services "nginx1" already exists
root@ip-172-31-25-208:~# kubectl get svc
NAME                  TYPE           CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
apache3               LoadBalancer   10.103.224.78    <pending>     80:30924/TCP     8m12s
jenkins1              LoadBalancer   10.98.35.154     <pending>     8080:30325/TCP   25h
kubernetes            ClusterIP      10.96.0.1        <none>        443/TCP          2d1h
kubernetes-bootcamp   LoadBalancer   10.100.84.86     <pending>     8080:30092/TCP   25h
nginx                 LoadBalancer   10.103.188.241   <pending>     8080:31101/TCP   25h
nginx1                LoadBalancer   10.101.162.192   <pending>     80:31996/TCP     25h
```
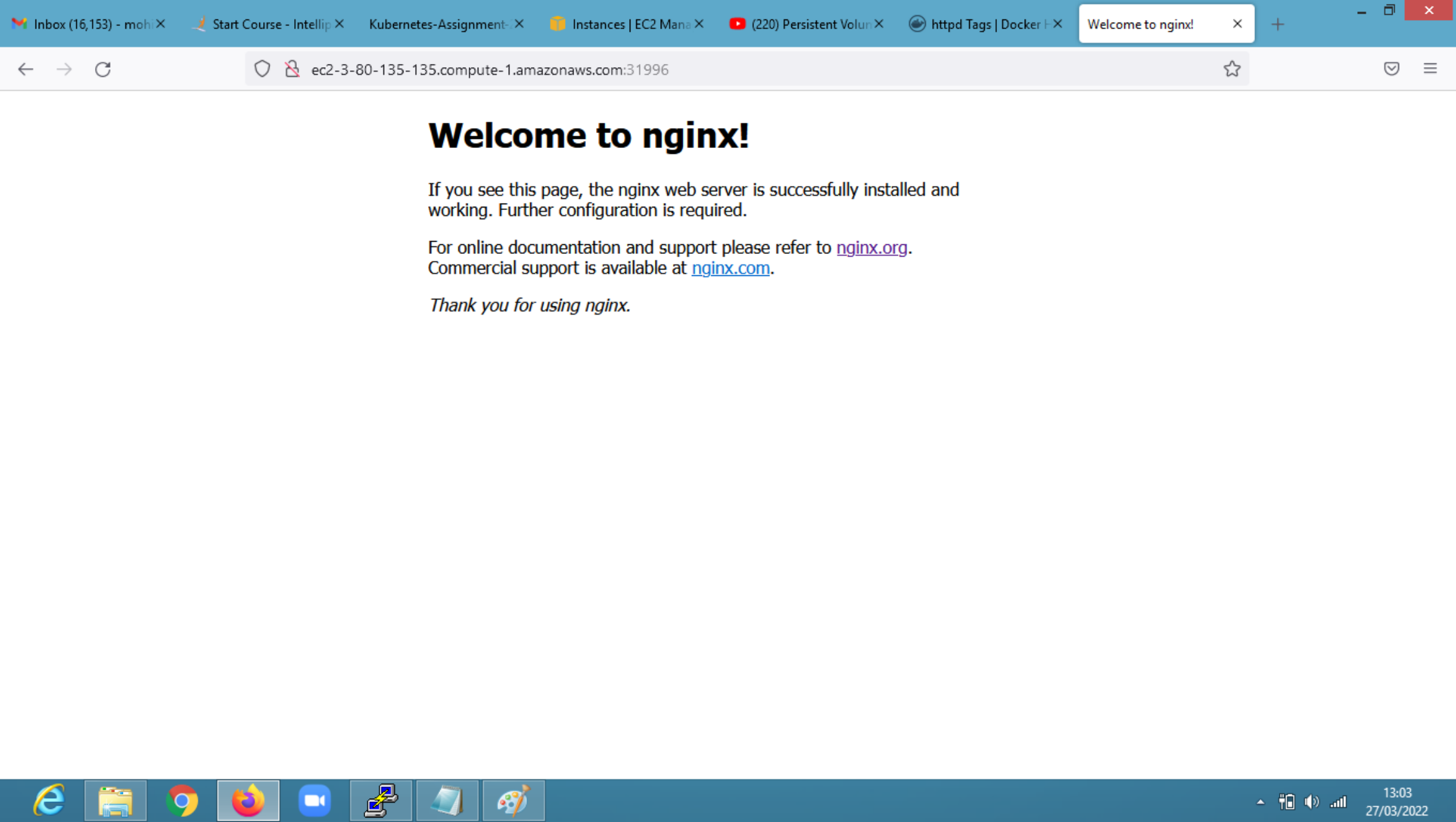
https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=instanceId

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	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
☑	Kuber-worker	i-06a83eac22b9803a2	t2.medium	us-east-1d	🟢 running	✅ 2/2 checks ...	None	🔑➕	ec2-3-80-135-135.comp...
☐	ubuntujenkins	i-0717ac4271550cb0f	t2.micro	us-east-1d	🔴 stopped		None	🔑➕	
☐	Kuber-master	i-09c6ddd37a95911c2	t2.medium	us-east-1d	🟢 running	✅ 2/2 checks ...	None	🔑➕	ec2-54-157-211-166.co...
☐	prod-server	i-09f4339ed6d4625c6	t2.micro	us-east-1c	🔴 stopped		None	🔑➕	
☐	test-server	i-0b1904a015fe862c2	t2.micro	us-east-1c	🔴 stopped		None	🔑➕	
☐	kuber-Ansi-P...	i-0bd588f2b4d79ee87	t2.micro	us-east-1c	🟢 running	✅ 2/2 checks ...	None	🔑➕	ec2-184-73-18-244.com...
☐	master-server	i-0c0d9c3d7cbb42ed7	t2.micro	us-east-1c	🔴 stopped		None	🔑➕	
☐	Ansible-Prod2	i-0c5afc682f8204b55	t2.micro	us-east-1c	🔴 stopped		None	🔑➕	
☐	Dock-Ansi-w...	i-0cafa27ef8d53ab50	t2.micro	us-east-1c	🔴 stopped		None	🔑➕	

◁ ▷

Instance: ▌i-06a83eac22b9803a2 (Kuber-worker)   Public DNS: ec2-3-80-135-135.compute-1.amazonaws.com   ▬ ▬ ▬

Description   Status Checks   Monitoring   Tags

Instance ID   i-06a83eac22b9803a2

Instance state   running

Public DNS (IPv4)   ec2-3-80-135-135.compute-1.amazonaws.com 📋

IPv4 Public IP   3.80.135.135

13:02
27/03/2022

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.