Module-9: Kubernetes Assignment - 5

You have been asked to:

- Use the previous deployment
- Deploy an nginx deployment of 3 replicas
- Create an nginx service of type clusterip
- Create an ingress service /apache to apache service /nginx to nginx service

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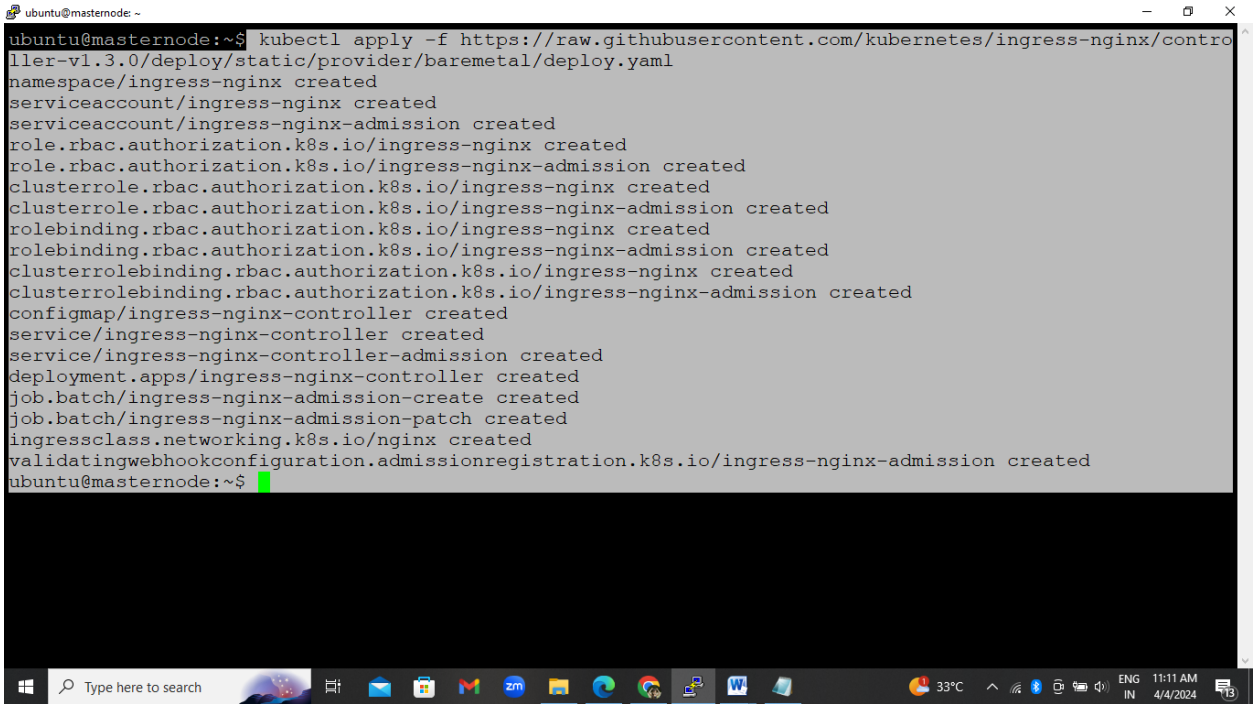
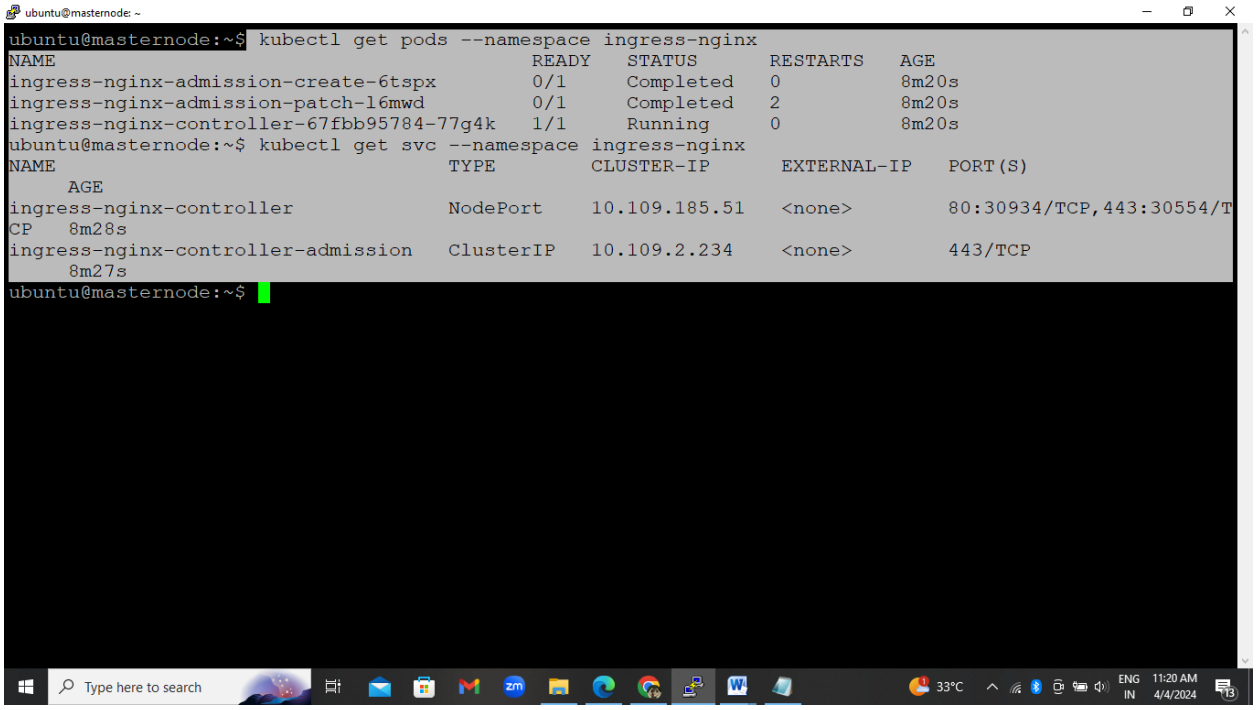
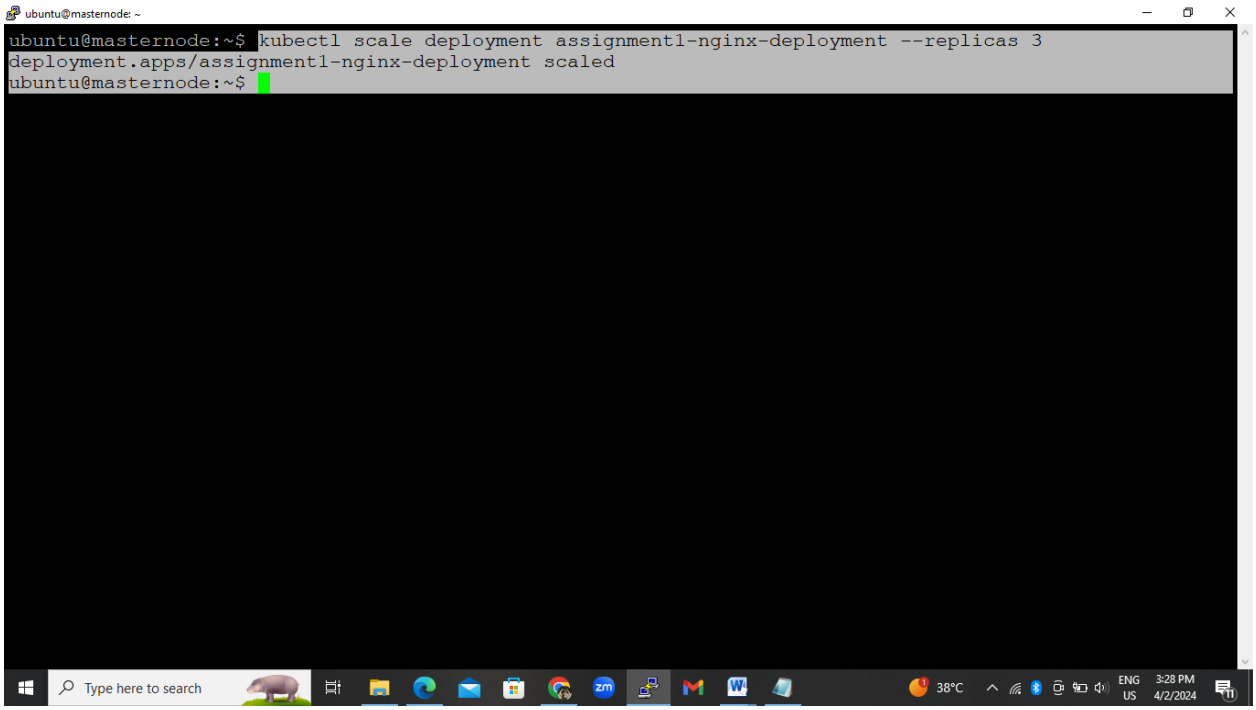
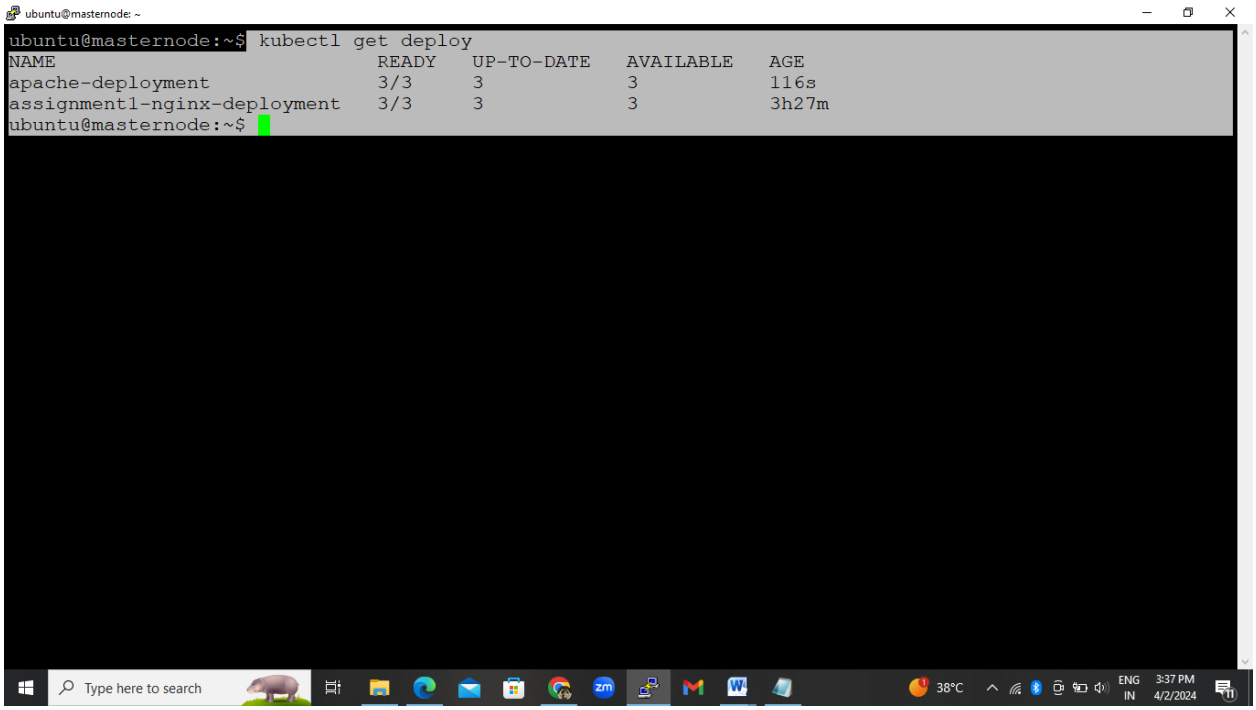
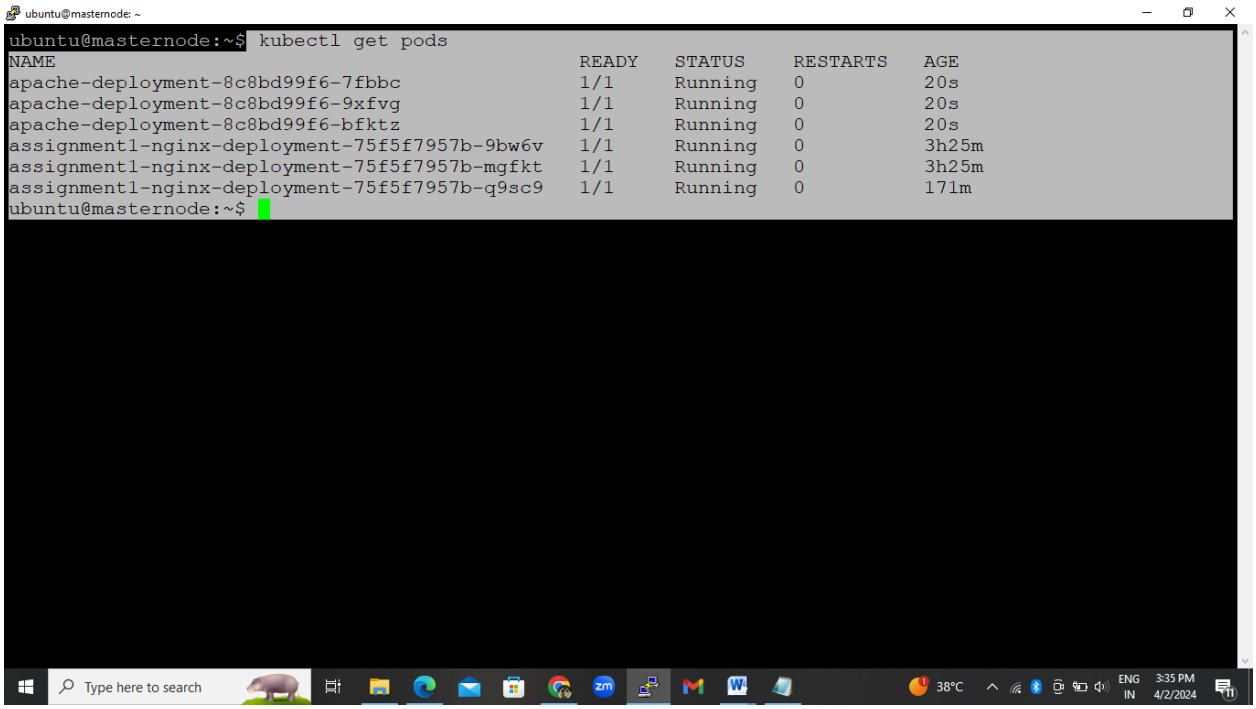
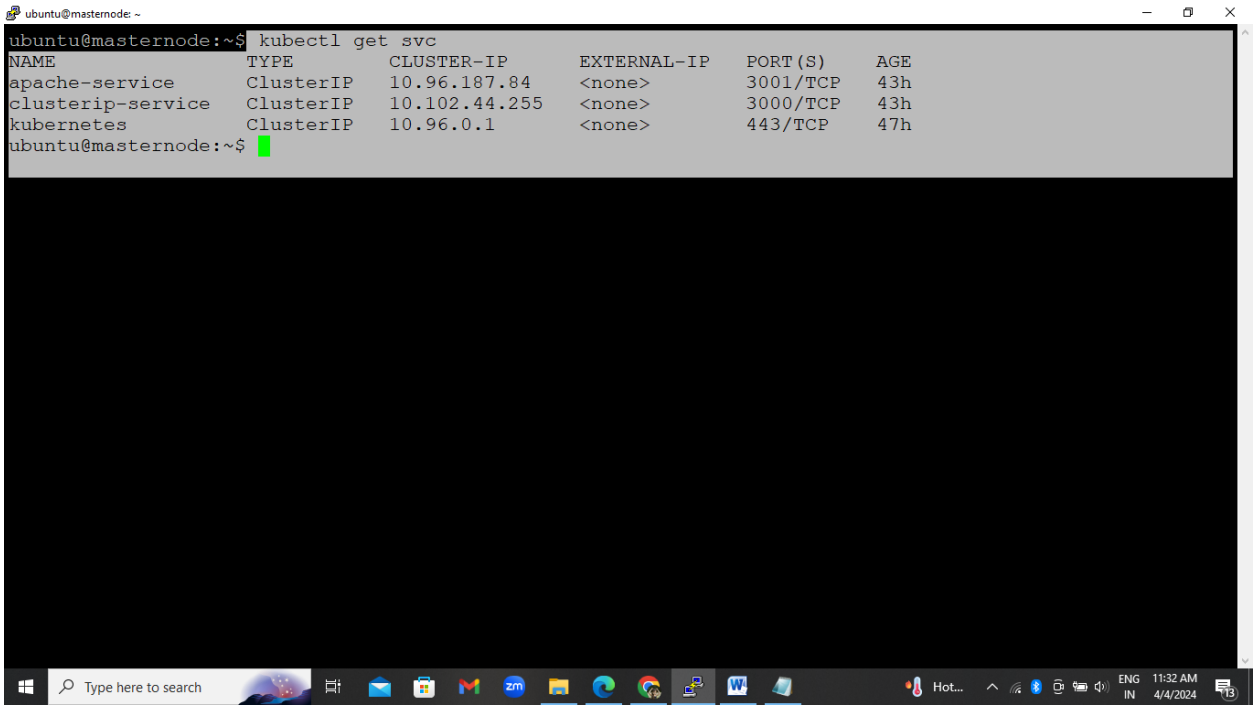


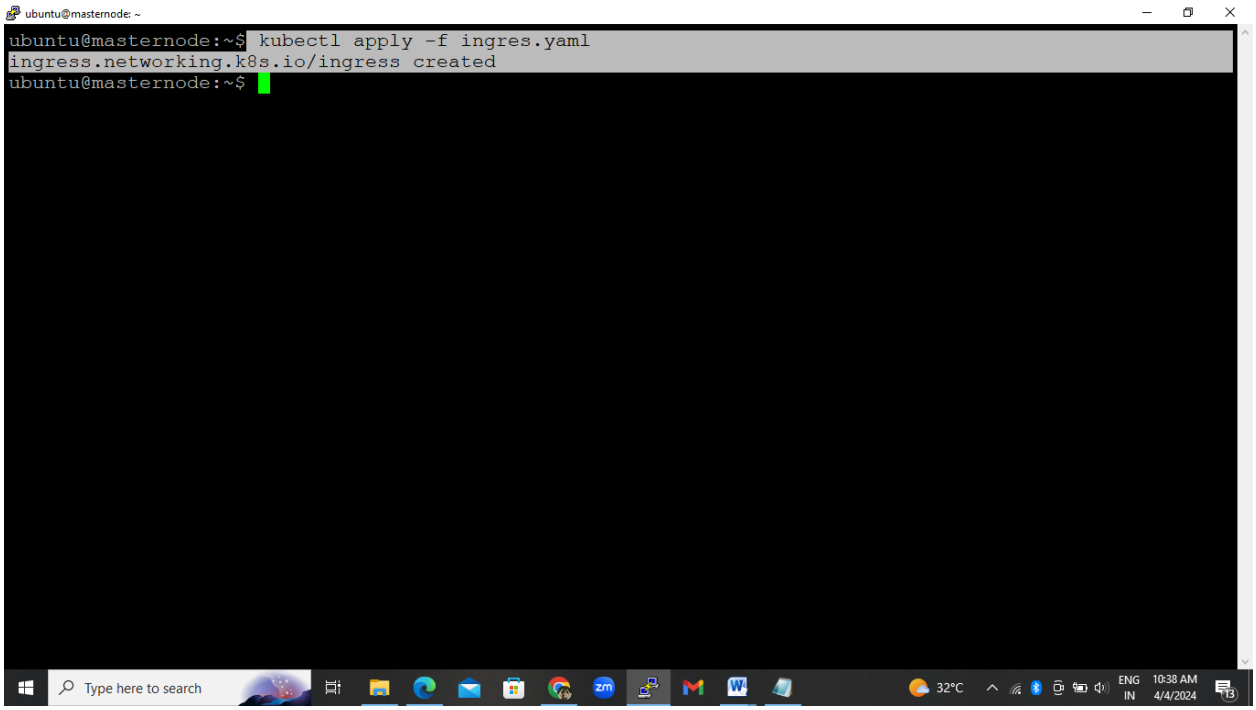

ubuntu@masternode: ~
ubuntu@masternode:~$ kubectl get pods --namespace ingress-nginx
NAME READY STATUS RESTARTS AGE
ingress-nginx-admission-create-6tspx 0/1 Completed 0 8m20s
ingress-nginx-admission-patch-l6mwd 0/1 Completed 2 8m20s
ingress-nginx-controller-67fbb95784-77g4k 1/1 Running 0 8m20s
ubuntu@masternode:~$ kubectl get svc --namespace ingress-nginx
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S)
AGE
ingress-nginx-controller NodePort 10.109.185.51 <none> 80:30934/TCP,443:30554/T
CP 8m28s
ingress-nginx-controller-admission ClusterIP 10.109.2.234 <none> 443/TCP
8m27s
ubuntu@masternode:~$
Type here to search
33°C
ENG
IN
11:20 AM
4/4/2024


ubuntu@masternode: ~
ubuntu@masternode:~$ kubectl scale deployment assignment1-nginx-deployment --replicas 3
deployment.apps/assignment1-nginx-deployment scaled
ubuntu@masternode:~$
Type here to search
38°C
ENG
US
3:28 PM
4/2/2024


ubuntu@masternode: ~
ubuntu@masternode:~$ kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
apache-deployment 3/3 3 3 116s
assignment1-nginx-deployment 3/3 3 3 3h27m
ubuntu@masternode:~$
Type here to search
38°C
ENG
IN
3:37 PM
4/2/2024

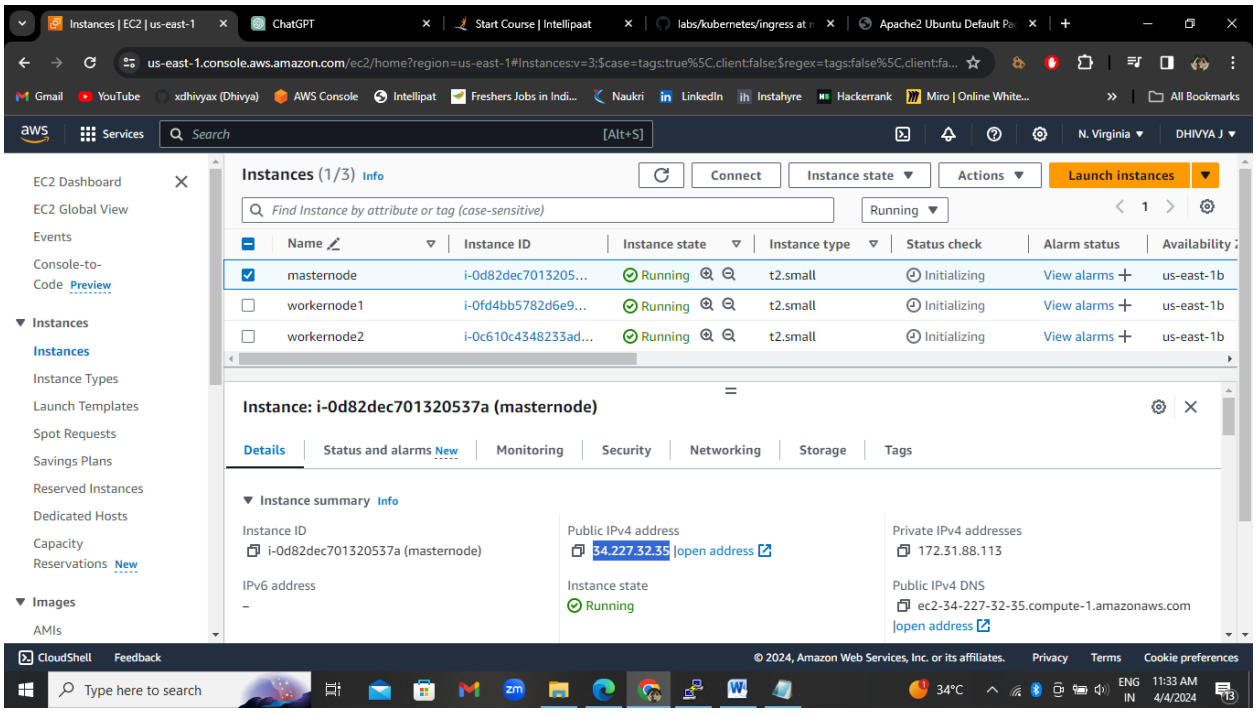

ubuntu@masternode: ~
ubuntu@masternode:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
apache-deployment-8c8bd99f6-7fbbc 1/1 Running 0 20s
apache-deployment-8c8bd99f6-9xfvg 1/1 Running 0 20s
apache-deployment-8c8bd99f6-bfktz 1/1 Running 0 20s
assignment1-nginx-deployment-75f5f7957b-9bw6v 1/1 Running 0 3h25m
assignment1-nginx-deployment-75f5f7957b-mgfkt 1/1 Running 0 3h25m
assignment1-nginx-deployment-75f5f7957b-q9sc9 1/1 Running 0 171m
ubuntu@masternode:~$
Type here to search
38°C
ENG
IN
3:35 PM
4/2/2024

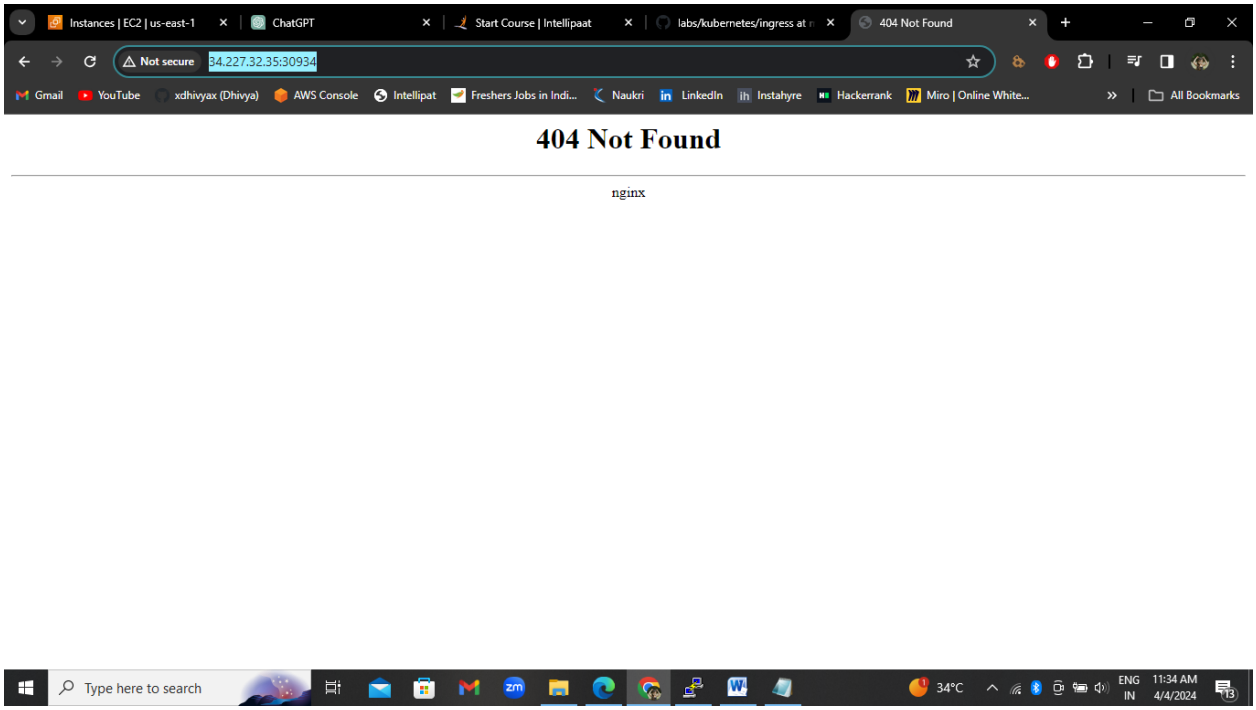

ubuntu@masternode: ~
ubuntu@masternode:~$ kubectl get svc
NAME   TYPE   CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
apache-service   ClusterIP   10.96.187.84   <none>   3001/TCP   43h
clusterip-service   ClusterIP   10.102.44.255   <none>   3000/TCP   43h
kubernetes   ClusterIP   10.96.0.1   <none>   443/TCP   47h
ubuntu@masternode:~$
Type here to search
Hot...
ENG
IN
11:32 AM
4/4/2024


ubuntu@masternode: ~
ubuntu@masternode:~$ kubectl apply -f ingres.yaml
ingress.networking.k8s.io/ingress created
ubuntu@masternode:~$
Type here to search
32°C
ENG
IN
10:38 AM
4/4/2024

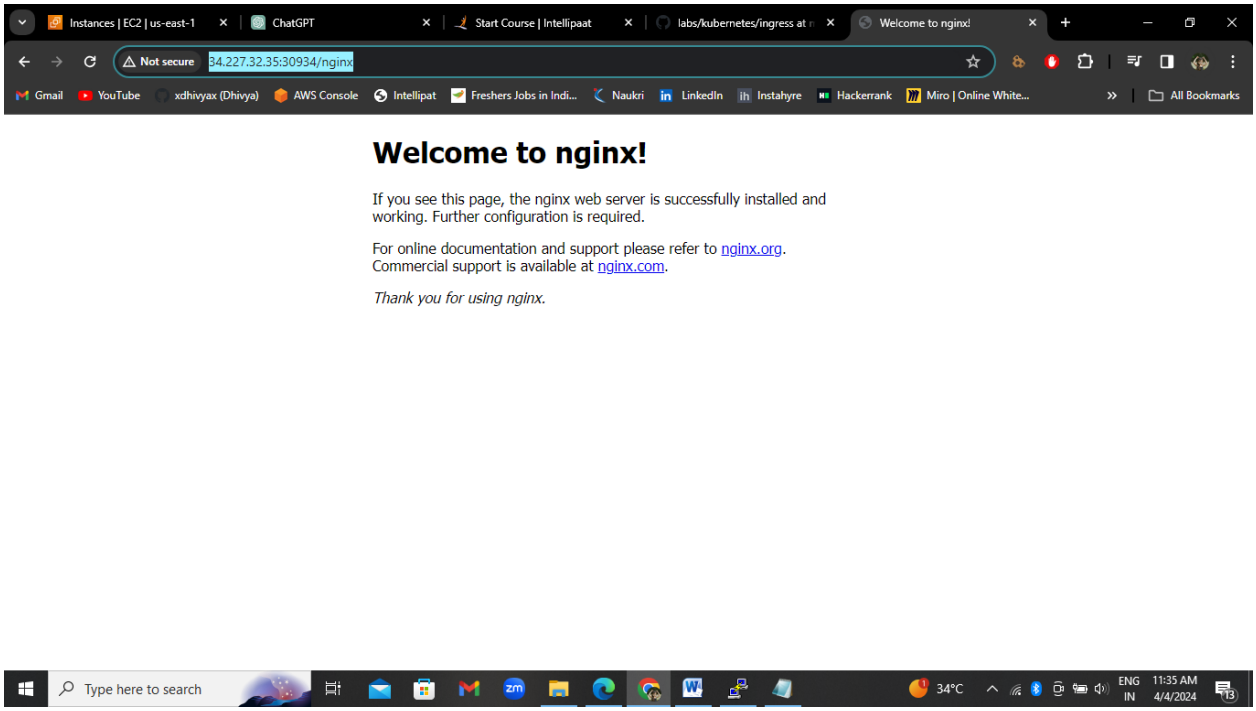
ubuntu@masternode: ~

```
ubuntu@masternode:~$ cat ingres.yaml
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
 name: ingress
 annotations:
   nginx.ingress.kubernetes.io/rewrite-target: /
spec:
 ingressClassName: nginx
 rules:
  - http:
     paths:
     - path: /nginx
       pathType: Prefix
       backend:
         service:
           name: clusterip-service
           port:
             number: 80
     - path: /apache
       pathType: Prefix
       backend:
         service:
           name: apache-service
           port:
             number: 80
ubuntu@masternode:~$
```




Instances | EC2 | us-east-1
ChatGPT
Start Course | Intellipaat
labs/kubernetes/ingress at
404 Not Found
Not secure
34.227.32.35:30934
Gmail
YouTube
xdhivyax (Dhivya)
AWS Console
Intellipat
Freshers Jobs in Indi...
Naukri
LinkedIn
Instahyre
Hackerrank
Miro | Online White...
All Bookmarks
404 Not Found
nginx
Type here to search
34°C
ENG
IN
11:34 AM
4/4/2024


Instances | EC2 | us-east-1
ChatGPT
Start Course | Intellipaat
labs/kubernetes/ingress at
Apache2 Ubuntu Default Pa
Not secure
34.227.32.35:30934/apache
Gmail
YouTube
xdhivyax (Dhivya)
AWS Console
Intellipat
Freshers Jobs in Indi...
Naukri
LinkedIn
Instahyre
Hackerrank
Miro | Online White...
All Bookmarks
Ubuntu Logo
Apache2 Default Page
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
Type here to search
34°C
ENG
IN
11:34 AM
4/4/2024


Instances | EC2 | us-east-1
ChatGPT
Start Course | Intellipaat
labs/kubernetes/ingress at
Welcome to nginx!
Not secure
34.227.32.35:30934/nginx
Gmail
YouTube
xdhivyax (Dhivya)
AWS Console
Intellipat
Freshers Jobs in Indi...
Naukri
LinkedIn
Instahyre
Hackerrank
Miro | Online White...
All Bookmarks
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.
Type here to search
34°C
ENG
IN
11:35 AM
4/4/2024