

```
ec2-user@ip-172-31-46-175:~$ kubectl get namespace
NAME                STATUS    AGE
default             Active   73m
kube-node-lease     Active   73m
kube-public         Active   73m
kube-system         Active   73m
[ec2-user@ip-172-31-46-175 ~]$ kubectl describe namespace default
Name:               default
Labels:             kubernetes.io/metadata.name=default
Annotations:        <none>
Status:             Active

No resource quota.

No LimitRange resource.
[ec2-user@ip-172-31-46-175 ~]$
```

```
Select ec2-user@ip-172-31-46-175:~$ kubectl create ns teama
namespace/teama created
[ec2-user@ip-172-31-46-175 ~]$ kubectl get namespace
NAME                STATUS    AGE
default             Active   79m
kube-node-lease     Active   79m
kube-public         Active   79m
kube-system         Active   79m
teama               Active    3s
[ec2-user@ip-172-31-46-175 ~]$
```



```
Select ec2-user@ip-172-31-46-175:~
[root@ip-172-31-46-175 ~]# cp pod_label.yml /home/ec2-user
[root@ip-172-31-46-175 ~]# sudo su - ec2-user
Last login: Mon Dec 19 11:15:20 UTC 2022 on pts/0
[ec2-user@ip-172-31-46-175 ~]$ ls
kubect1.sha256  kustomization.yaml  mysql-deployment.yaml  pod_label.yml  wordpress-deployment.yaml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_label.yml
pod/labelpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_label.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po -n
error: flag needs an argument: 'n' in -n
See 'kubectl get --help' for usage.
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po -n teama
NAME      READY   STATUS    RESTARTS   AGE
labelpod  1/1     Running   0           57s
[ec2-user@ip-172-31-46-175 ~]$
```

```
Select ec2-user@ip-172-31-46-175:~
[root@ip-172-31-46-175 ~]# cp pod_label.yml /home/ec2-user
[root@ip-172-31-46-175 ~]# sudo su - ec2-user
Last login: Mon Dec 19 11:15:20 UTC 2022 on pts/0
[ec2-user@ip-172-31-46-175 ~]$ ls
kubect1.sha256  kustomization.yaml  mysql-deployment.yaml  pod_label.yml  wordpress-deployment.yaml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_label.yml
pod/labelpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_label.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po -n
error: flag needs an argument: 'n' in -n
See 'kubectl get --help' for usage.
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po -n teama
NAME      READY   STATUS    RESTARTS   AGE
labelpod  1/1     Running   0           57s
[ec2-user@ip-172-31-46-175 ~]$ kubectl create deploy nsdeploy -n teama --image=httpd
error: unknown flag: --image
See 'kubectl create deployment --help' for usage.
[ec2-user@ip-172-31-46-175 ~]$ kubectl create deploy nsdeploy -n teama --image=httpd
deployment.apps/nsdeploy created
[ec2-user@ip-172-31-46-175 ~]$ kubectl get deploy -n teama
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
nsdeploy  1/1     1             1            9s
[ec2-user@ip-172-31-46-175 ~]$ kubectl get deploy -n teama
```

```
Select ec2-user@ip-172-31-46-175:~
[root@ip-172-31-46-175 ~]# cp pod_label.yml /home/ec2-user
[root@ip-172-31-46-175 ~]# sudo su - ec2-user
Last login: Mon Dec 19 11:15:20 UTC 2022 on pts/0
[ec2-user@ip-172-31-46-175 ~]$ ls
kubect1.sha256 kustomization.yaml mysql-deployment.yaml pod_label.yml wordpress-deployment.yaml
[ec2-user@ip-172-31-46-175 ~]$ kubect1 create -f pod_label.yml
pod/labelpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_label.yml
[ec2-user@ip-172-31-46-175 ~]$ kubect1 get po
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$ kubect1 get po
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$ kubect1 get po -n
error: flag needs an argument: 'n' in -n
See 'kubect1 get --help' for usage.
[ec2-user@ip-172-31-46-175 ~]$ kubect1 get po -n teama
NAME      READY   STATUS    RESTARTS   AGE
labelpod  1/1     Running   0           57s
[ec2-user@ip-172-31-46-175 ~]$ kubect1 create deploy nsdeploy -n teama --iamge=httpd
error: unknown flag: --iamge
See 'kubect1 create deployment --help' for usage.
[ec2-user@ip-172-31-46-175 ~]$ kubect1 create deploy nsdeploy -n teama --image=httpd
deployment.apps/nsdeploy created
[ec2-user@ip-172-31-46-175 ~]$ kubect1 get deploy -n teama
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
nsdeploy  1/1     1             1           9s
[ec2-user@ip-172-31-46-175 ~]$ kubect1 get deploy -n teama
```

```
Select ec2-user@ip-172-31-46-175:~
No resources found in default namespace.
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ kubect1 config view
apiVersion: v1
clusters:
- cluster:
  certificate-authority: /home/ec2-user/.minikube/ca.crt
  extensions:
  - extension:
    last-update: Mon, 19 Dec 2022 11:18:04 UTC
    provider: minikube.sigs.k8s.io
    version: v1.28.0
    name: cluster_info
  server: https://192.168.49.2:8443
  name: minikube
contexts:
- context:
  cluster: minikube
  extensions:
  - extension:
    last-update: Mon, 19 Dec 2022 11:18:04 UTC
    provider: minikube.sigs.k8s.io
    version: v1.28.0
    name: context_info
  namespace: default
  user: minikube
  name: minikube
current-context: minikube
kind: Config
preferences: {}
users:
- name: minikube
  user:
  client-certificate: /home/ec2-user/.minikube/profiles/minikube/client.crt
  client-key: /home/ec2-user/.minikube/profiles/minikube/client.key
[ec2-user@ip-172-31-46-175 ~]$
```

```
Select ec2-user@ip-172-31-46-175:~
[ec2-user@ip-172-31-46-175 ~]$ kubectl cluster-info
Kubernetes control plane is running at https://192.168.49.2:8443
CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
[ec2-user@ip-172-31-46-175 ~]$ kubectl config current-context
minikube
[ec2-user@ip-172-31-46-175 ~]$
```

```
Select ec2-user@ip-172-31-46-175:~
[ec2-user@ip-172-31-46-175 ~]$ kubectl config get-context
error: unknown command "get-context"
See 'kubectl config -h' for help and examples
[ec2-user@ip-172-31-46-175 ~]$ kubectl config get-contexts
CURRENT  NAME      CLUSTER  AUTHINFO  NAMESPACE
*         minikube  minikube minikube  default
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ kubectl config get-contexts
CURRENT  NAME      CLUSTER  AUTHINFO  NAMESPACE
*         minikube  minikube minikube  default
[ec2-user@ip-172-31-46-175 ~]$
```

```
name: minikube
contexts:
- context:
  cluster: minikube
  extensions:
  - extension:
    last-update: Mon, 19 Dec 2022 11:18:04 UTC
    provider: minikube.sigs.k8s.io
    version: v1.28.0
    name: context_info
    namespace: default
    user: minikube
  name: minikube
current-context: minikube
kind: Config
preferences: {}
users:
- name: minikube
  user:
    client-certificate: /home/ec2-user/.minikube/profiles/minikube/client.crt
    client-key: /home/ec2-user/.minikube/profiles/minikube/client.key
[ec2-user@ip-172-31-46-175 ~]$ kubectl config view

user:
```

EC2 Management Console | Docker Hub | EC2 Instance Connect

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...

aws Services Search [Alt+S] Mumbai The Eshwar Kanna

```
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 2 bytes 140 (140.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@ip-172-31-32-217 ~]# ping 172.31.46.175
PING 172.31.46.175 (172.31.46.175) 56(84) bytes of data:
64 bytes from 172.31.46.175: icmp_seq=1 ttl=64 time=1.111 ms
64 bytes from 172.31.46.175: icmp_seq=2 ttl=64 time=0.439 ms
64 bytes from 172.31.46.175: icmp_seq=3 ttl=64 time=0.589 ms
64 bytes from 172.31.46.175: icmp_seq=4 ttl=64 time=0.469 ms
64 bytes from 172.31.46.175: icmp_seq=5 ttl=64 time=0.462 ms
64 bytes from 172.31.46.175: icmp_seq=6 ttl=64 time=0.534 ms
64 bytes from 172.31.46.175: icmp_seq=7 ttl=64 time=0.477 ms
64 bytes from 172.31.46.175: icmp_seq=8 ttl=64 time=0.519 ms
64 bytes from 172.31.46.175: icmp_seq=9 ttl=64 time=0.463 ms
64 bytes from 172.31.46.175: icmp_seq=10 ttl=64 time=0.434 ms
64 bytes from 172.31.46.175: icmp_seq=11 ttl=64 time=0.453 ms
64 bytes from 172.31.46.175: icmp_seq=12 ttl=64 time=0.516 ms
64 bytes from 172.31.46.175: icmp_seq=13 ttl=64 time=0.430 ms
64 bytes from 172.31.46.175: icmp_seq=14 ttl=64 time=0.489 ms
```

i-0625fe8e037739f03 (webserver)  
PublicIPs: 15.207.84.171 PrivateIPs: 172.31.32.217

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EC2 Management Console x Docker Hub x EC2 Instance Connect x (3) Eshwar Lakkakula (You) x Install and Set Up kubectl x +

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance=...

aws Services Search [Alt+S] Mumbai The Eshwar Kanna

```
[root@ip-172-31-32-217 ~]#  
[root@ip-172-31-32-217 ~]#  
[root@ip-172-31-32-217 ~]# install kubectl in this os which is used as client
```

i-0625fe8e037739f03 (webserver)  
PublicIPs: 15.207.84.171 PrivateIPs: 172.31.32.217

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https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance=...

aws Services Search [Alt+S] Mumbai The Eshwar Kanna

```
138 ls  
139 cd /  
140 ls  
141 cd mynfs/  
142 ls  
143 cd ~  
144 ifconfig  
145 ping 172.31.46.175  
146 kubectl  
147 curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"  
148 curl -LO https://dl.k8s.io/release/v1.26.0/bin/linux/amd64/kubectl  
149 curl -LO "https://dl.k8s.io/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl.sha256"  
150 echo "$(cat kubectl.sha256) kubectl" | sha256sum --check  
151 sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl  
152 chmod +x kubectl  
153 mkdir -p ~/.local/bin  
154 mv ./kubectl ~/.local/bin/kubectl  
155 kubectl version --client  
156 kubectl get po  
157 history  
[root@ip-172-31-32-217 ~]#
```

i-0625fe8e037739f03 (webserver)  
PublicIPs: 15.207.84.171 PrivateIPs: 172.31.32.217

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ec2-user - ec2-user@13.233.19.83 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ec2-user@13.233.19.83 X New Session

Desktop

Upload Edit Properties New

C:\Users\jeshwar\Desktop\redhat\

Name	Size	Type	Changed
.		Parent directory	19-12-2022 19:01:03
..		Parent directory	19-12-2022 19:01:03
cpp_code		File folder	14-12-2022 10:47:12
kanna		File folder	14-12-2022 10:47:37
kubernetes		File folder	14-12-2022 11:11:38
openshift		File folder	14-12-2022 10:47:47
Pictures		File folder	14-12-2022 10:47:49
Runc		File folder	14-12-2022 11:02:18
Templates		File folder	14-12-2022 10:47:54
app.py	1 KB	PY File	25-11-2021 17:59:06
client.crt	2 KB	Security Certificate	19-12-2022 19:00:26
client.key	2 KB	KEY File	19-12-2022 19:00:26
ftar	547,207 KB	TAR File	22-02-2022 18:04:48
file.txt	1 KB	Text Document	22-11-2021 15:02:58
hi.py	1 KB	PY File	22-04-2022 10:29:51
kanna.cpp	1 KB	CPP File	23-02-2022 09:08:40
kanna.html	1 KB	Microsoft Edge HT...	19-11-2021 19:27:08
kanna.py	1 KB	PY File	23-02-2022 09:20:06
kanna.tar	279,607 KB	TAR File	22-11-2021 15:46:53
menu.py	1 KB	PY File	21-04-2022 07:52:46
my.py	1 KB	PY File	26-11-2021 10:01:41
one.txt	0 KB	Text Document	26-11-2021 23:19:29
tty3	1 KB	File	22-11-2021 14:57:21

0 B of 807 MB in 0 of 21

ec2-user

Download Edit Properties New

/home/ec2-user/

Name	Size	Changed	Rights	Owner
.		19-12-2022 15:35:13	rw-r-xr-x	root
client.crt	2 KB	19-12-2022 19:00:26	rw-r--r--	ec2-user
client.key	2 KB	19-12-2022 19:00:26	rw-r--r--	ec2-user
kubect1.sha256	1 KB	19-12-2022 16:49:09	rw-r--r--	ec2-user
kustomization.yaml	1 KB	19-12-2022 17:43:19	rw-r--r--	root
mysql-deployment.ya...	2 KB	19-12-2022 17:25:16	rw-r--r--	ec2-user
pod_label.yaml	1 KB	19-12-2022 18:14:04	rw-r--r--	root
wordpress-deployme...	2 KB	19-12-2022 17:25:30	rw-r--r--	ec2-user

0 B of 5.61 KB in 0 of 7

9 hidden

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PragnaEdge

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ENG

19:01

19-12-2022

ec2-user - ec2-user@15.207.84.171 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ec2-user@15.207.84.171 X New Session

Desktop

Upload Edit Properties New

C:\Users\jeshwar\Desktop\redhat\

Name	Size	Type	Changed
.		Parent directory	19-12-2022 19:01:03
..		Parent directory	19-12-2022 19:01:03
cpp_code		File folder	14-12-2022 10:47:12
kanna		File folder	14-12-2022 10:47:37
kubernetes		File folder	14-12-2022 11:11:38
openshift		File folder	14-12-2022 10:47:47
Pictures		File folder	14-12-2022 10:47:49
Runc		File folder	14-12-2022 11:02:18
Templates		File folder	14-12-2022 10:47:54
app.py	1 KB	PY File	25-11-2021 17:59:06
client.crt	2 KB	Security Certificate	19-12-2022 19:00:26
client.key	2 KB	KEY File	19-12-2022 19:00:26
ftar	547,207 KB	TAR File	22-02-2022 18:04:48
file.txt	1 KB	Text Document	22-11-2021 15:02:58
hi.py	1 KB	PY File	22-04-2022 10:29:51
kanna.cpp	1 KB	CPP File	23-02-2022 09:08:40
kanna.html	1 KB	Microsoft Edge HT...	19-11-2021 19:27:08
kanna.py	1 KB	PY File	23-02-2022 09:20:06
kanna.tar	279,607 KB	TAR File	22-11-2021 15:46:53
menu.py	1 KB	PY File	21-04-2022 07:52:46
my.py	1 KB	PY File	26-11-2021 10:01:41
one.txt	0 KB	Text Document	26-11-2021 23:19:29
tty3	1 KB	File	22-11-2021 14:57:21

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ec2-user

Download Edit Properties New

/home/ec2-user/

Name	Size	Changed	Rights	Owner
.		13-12-2022 11:48:10	rw-r-xr-x	root
client.crt	2 KB	19-12-2022 19:00:26	rw-r--r--	ec2-user
client.key	2 KB	19-12-2022 19:00:26	rw-r--r--	ec2-user

0 B of 2.75 KB in 0 of 2

5 hidden

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19:02

19-12-2022



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https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance=...

aws Services Search [Alt+S] Mumbai The Eshwar Kanna

```
[ec2-user@ip-172-31-32-217 ~]$ ls
client.crt client.key
[ec2-user@ip-172-31-32-217 ~]$
```

i-0625fe8e037739f03 (webserver)  
PublicIPs: 15.207.84.171 PrivateIPs: 172.31.32.217

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EC2 Management Console x Docker Hub x EC2 Instance Connect x (3) Eshwar Lakkakula (You) x Install and Set Up kubectl x + -

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance=...

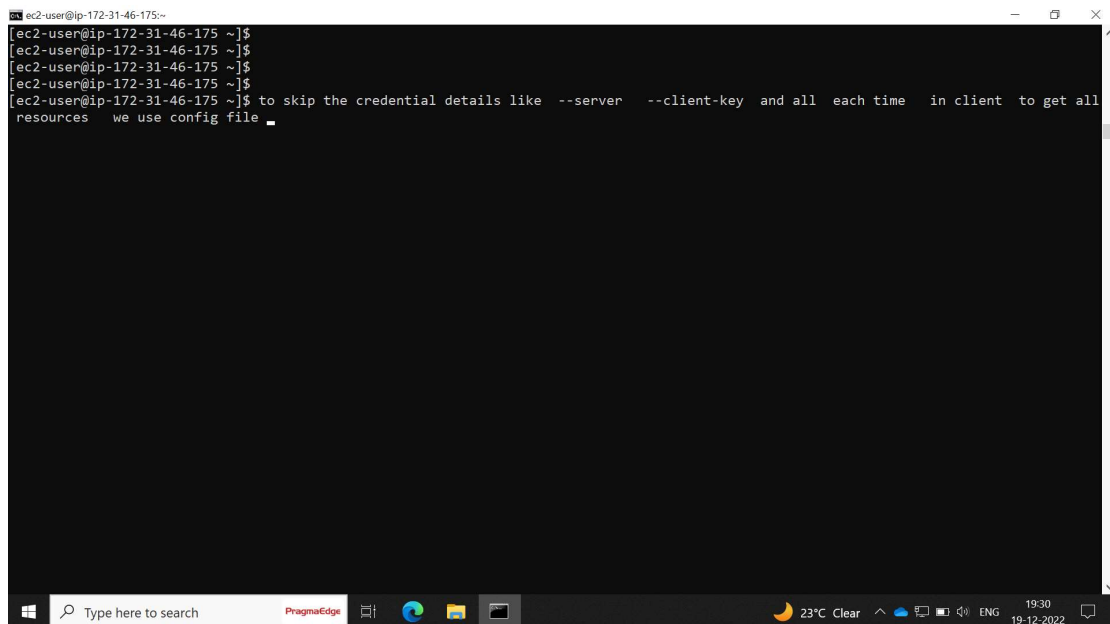
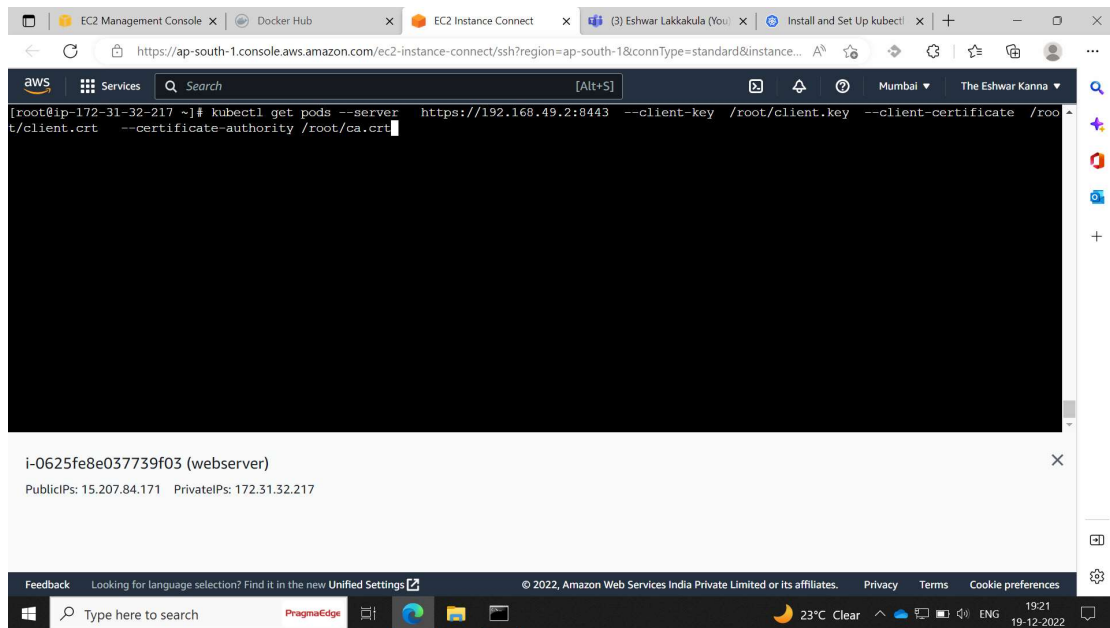
aws Services Search [Alt+S] Mumbai The Eshwar Kanna

```
[ec2-user@ip-172-31-32-217 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-32-217 ~]$
[ec2-user@ip-172-31-32-217 ~]$
[ec2-user@ip-172-31-32-217 ~]$ from the next command we get the output of pods same as in cluster
-bash: from: command not found
[ec2-user@ip-172-31-32-217 ~]$
[ec2-user@ip-172-31-32-217 ~]$ kubectl get pods --server https://192.168.49.2:8443 --client-key /home/ec2-user/client.key --client-certificate /home/ec2-user/client.crt --certificate-authority /home/ec2-user/ca.crt
```

i-0625fe8e037739f03 (webserver)  
PublicIPs: 15.207.84.171 PrivateIPs: 172.31.32.217

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```
ec2-user@ip-172-31-46-175:~$ kubectl config view > minikube.config
[ec2-user@ip-172-31-46-175 ~]$ vim minikube.config
[ec2-user@ip-172-31-46-175 ~]$
```

```
ec2-user@ip-172-31-46-175:~$ kubectl config view
apiVersion: v1
clusters:
- cluster:
    certificate-authority: /root/ca.crt
    server: https://192.168.49.2:8443
    name: minikubecluster
contexts:
- context:
    cluster: minikubecluster
    namespace: teama
    user: kanna
    name: cluster1
current-context: cluster1
kind: Config
preferences: {}
users:
- name: kanna
  user:
    client-certificate: /root/client.crt
    client-key: /root/client.key
```

```
ec2-user@ip-172-31-46-175:~$ kubectl config view > minikube.config
[ec2-user@ip-172-31-46-175 ~]$ vim minikube.config
[ec2-user@ip-172-31-46-175 ~]$ vim minikube.config
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ kubectl config view mykube.config
```

```
Select ec2-user@ip-172-31-46-175:~$ kubectl get pods --kubeconfig minikube.config
NAME          READY   STATUS    RESTARTS   AGE
labelpod      1/1     Running   0           87m
nsdeploy-67c4bf9655-htfbh 1/1     Running   0           83m
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ kubectl get pods --kubeconfig minikube.config
NAME          READY   STATUS    RESTARTS   AGE
labelpod      1/1     Running   0           87m
nsdeploy-67c4bf9655-htfbh 1/1     Running   0           83m
[ec2-user@ip-172-31-46-175 ~]$
```

```
Select ec2-user@ip-172-31-46-175:~  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$ sudo cp minikube.config /root/.kube/config  
[ec2-user@ip-172-31-46-175 ~]$
```

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```
Select ec2-user@ip-172-31-46-175:~  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$  
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[ec2-user@ip-172-31-46-175 ~]$  
[ec2-user@ip-172-31-46-175 ~]$ kubectl get pods -n teama  
NAME                                READY  STATUS   RESTARTS  AGE  
labelpod                            1/1    Running  0          89m  
nsdeploy-67c4bf9655-htfbh          1/1    Running  0          85m  
[ec2-user@ip-172-31-46-175 ~]$
```

Windows taskbar: Type here to search, PragmaEdge, 23°C Clear, 19:43 19-12-2022

```
Select root@minikube: /etc/kubernetes
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ minikube ssh
docker@minikube:~$
docker@minikube:~$
docker@minikube:~$
docker@minikube:~$ sudo su -
root@minikube:~#
root@minikube:~#
root@minikube:~# cd /etc/kubernetes/
root@minikube:/etc/kubernetes# ls
addons  admin.conf  controller-manager.conf  kubelet.conf  manifests  scheduler.conf
root@minikube:/etc/kubernetes# cat admin.conf
apiVersion: v1
clusters:
- cluster:
    certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSB0tLS0tCk1JSURCaKNQDUW2Z0F3SUJBZ0lCQVRBTkNa3Foa2lHOXcwQkFRc0ZBRE
    RWURWUVERXdwGfXNAXYTNWapVpVtKJNQjRYRFRJeU1USXhPREV4TVRjek9Wb1hEVE15TVRJeE5qRXhNVGN6T1Zvd0ZURVRNQkVHQTFVRQpBeE1YL1Y1dsdWFXdDFZb
    FTSXdEUVlKS29aSWh2Y05BUUVCQlFBRGdnRVBIBRENDQVFvQ2dnRUJBTW9EckZhbS83czFXS2paNzddOTM4Sm50eGJLclorME1FMjN3Z2w1dDBLRHc3UUFWMmXPDVdv
    ERWcTdLNCsKMnN1SVBjTnBCOEN2VZNMmQrOVlTMkVst1p1MXRva1B1VjVxYk10cWtBYkFhekjGL0NKRDZUUjFYd1h0S2p0YQpBaUVl1FWRzk3N1FNQ0IvbeE3jeSt
    TW55dnpKZThvS1Yzc2RGSmFhZkFwTDNiQ0tIR3NjOHQNeTUxckNLY2RYX0NSWGVudkPpVUZYURURURCbUhlTE1RM05JZHBGR1BFandxYnRSV0VWbGdEaw0yUVP2eU
    KcmNaOEVEUKZXR3VhdjRrNCTpOVhUL3dudDUzN0R2K1NsU1RQVnNLNhhML2s5bH1tQ095Tzk3MUJTNUNCajhnao2bStDcS9DYzYxZytxMzNOTmNFQ0F3RUFBYU5oT
    RWUjBQQVFIL0JBURBZ0trTUwR0ExVWRKUVFXck1CUUdDQ3NHQVFRk1J3TUNC22dyQmdFRk1RY0RBVEFQmdOVkhSTUJBZjhFQ1RBREFRSC9NQjBHQTZVZERnUVCk
    0tSNE55ZEZHUghlaHdLbDg4UnVKN096QU5CZ2txaGtpRz13MEJBUXNKGUFPQ0FRRUfoYlZsa3ZsbWpKMUhObmKwMkR5V29NWDFZTU5iQXdtWk1JCZkdUmi1ZHB3UVP
    Vm5MNGN1WmMwM1h1VmQrWThEMFRWckdJdJBOZ04vb0hXM2VkeK3Qk1IRmszWjV5SG4zaHRiYVtDNLQ2hHemNVSDJUM010cjCwaCt5czBpZGoraUMKSD12QU1RNW
    uTVlDbGU4TVdINjRiWXBkaEZRQnRfQWZowUpMOUpqSEE2T3E5Wj1RakZyNHZCmhdAorRDQ3YT1hdUJQaVhRZj16MFV5WddVRU55WjFMYPVZUFpN1Nwbk5hZ1Bjd
    NtZmt0Zj1kRnRDNE9sCmVkeDYrV1BRk110W9uOVAvRUhWRXDJ5VYxUTN4UXBsUHD2bW5CMS9New10bWVSVUppqW1BNMnhuejdFYMureEgKcm1QUWppV0pGM2tvOF9
    UVORCBDRVJUSUZJQ0FURSB0tLS0tCg==
    server: https://control-plane.minikube.internal:8443
    name: mk
contexts:
mOwTET1N2N7Z3VKl0hFYzBrU2NKcVFNeUFJvnlhV102dDdieDJUTXA20TAXMU5R01R3Z3UwMzZBTXpUCnAvSFY1ZGtDZ11FOXh10VpCTie1bVpGRGxLN1JzRm1TRzV
```

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    RkUURWUVERXdwGfXNAXYTNWapVpVtKJNQjRYRFRJeU1USXhPREV4TVRjek9Wb1hEVE15TVRJeE5qRXhNVGN6T1Zvd0ZURVRNQkVHQTFVRQpBeE1YL1Y1dsdWFXdDFZb
    FTSXdEUVlKS29aSWh2Y05BUUVCQlFBRGdnRVBIBRENDQVFvQ2dnRUJBTW9EckZhbS83czFXS2paNzddOTM4Sm50eGJLclorME1FMjN3Z2w1dDBLRHc3UUFWMmXPDVdv
    ERWcTdLNCsKMnN1SVBjTnBCOEN2VZNMmQrOVlTMkVst1p1MXRva1B1VjVxYk10cWtBYkFhekjGL0NKRDZUUjFYd1h0S2p0YQpBaUVl1FWRzk3N1FNQ0IvbeE3jeSt
    TW55dnpKZThvS1Yzc2RGSmFhZkFwTDNiQ0tIR3NjOHQNeTUxckNLY2RYX0NSWGVudkPpVUZYURURURCbUhlTE1RM05JZHBGR1BFandxYnRSV0VWbGdEaw0yUVP2eU
    KcmNaOEVEUKZXR3VhdjRrNCTpOVhUL3dudDUzN0R2K1NsU1RQVnNLNhhML2s5bH1tQ095Tzk3MUJTNUNCajhnao2bStDcS9DYzYxZytxMzNOTmNFQ0F3RUFBYU5oT
    RWUjBQQVFIL0JBURBZ0trTUwR0ExVWRKUVFXck1CUUdDQ3NHQVFRk1J3TUNC22dyQmdFRk1RY0RBVEFQmdOVkhSTUJBZjhFQ1RBREFRSC9NQjBHQTZVZERnUVCk
    0tSNE55ZEZHUghlaHdLbDg4UnVKN096QU5CZ2txaGtpRz13MEJBUXNKGUFPQ0FRRUfoYlZsa3ZsbWpKMUhObmKwMkR5V29NWDFZTU5iQXdtWk1JCZkdUmi1ZHB3UVP
    Vm5MNGN1WmMwM1h1VmQrWThEMFRWckdJdJBOZ04vb0hXM2VkeK3Qk1IRmszWjV5SG4zaHRiYVtDNLQ2hHemNVSDJUM010cjCwaCt5czBpZGoraUMKSD12QU1RNW
    uTVlDbGU4TVdINjRiWXBkaEZRQnRfQWZowUpMOUpqSEE2T3E5Wj1RakZyNHZCmhdAorRDQ3YT1hdUJQaVhRZj16MFV5WddVRU55WjFMYPVZUFpN1Nwbk5hZ1Bjd
    NtZmt0Zj1kRnRDNE9sCmVkeDYrV1BRk110W9uOVAvRUhWRXDJ5VYxUTN4UXBsUHD2bW5CMS9New10bWVSVUppqW1BNMnhuejdFYMureEgKcm1QUWppV0pGM2tvOF9
    UVORCBDRVJUSUZJQ0FURSB0tLS0tCg==
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mOwTET1N2N7Z3VKl0hFYzBrU2NKcVFNeUFJvnlhV102dDdieDJUTXA20TAXMU5R01R3Z3UwMzZBTXpUCnAvSFY1ZGtDZ11FOXh10VpCTie1bVpGRGxLN1JzRm1TRzV
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    RWURWUVERXKdwdGFYXAKYTNWpVTKJNQjRYRFRJeU1USXhPREV4TVRjek9Wb1hEVE15TVRJeE5qRXhNVGN6T1Zvd0ZURVRNQkVHQTFVRQpBeE1YL1dsdWFXdDFZb'
    FTsXdEUVlKS29aSh2Y0SBUUVCQlFBRGdnRVBBERNDQVFvQ2dnRUJBTW9EckZhS83czFXS2paNzdDOTM4Sm50eGJLclorME1FMjN3Z2w1dDBLRHc3UUFwMmxPVDVv'
    ERWcTdLNCsKMnN1SVBjTnBCOEN2YVZNMmQrOV1TMKVsT1p1MXRva1BIVjVxYk10cWtBYkFhekjGL0NKRDUUjFYd1h0S2p0YQpBaUV1L1FWRzk3N1FNQ0IvbEJjeSt'
    TW5SdnpKZThvS1Yzc2RGSmFhZkFwTDNiQ0tIR3NjOHhQeTUxckNLY2RXY0NSWGUJdUkPQVUzYUURURURcUUhLE1RM05JZHBGR1BFandxYnRSV0VWbGdEaW0yUWp2eU'
    KcmNaOEVEUkZXR3VhdjRxcNCTpOVhUL3dudDUzN0R2K1NsU1RQVnNLRnhML2s5bH1tQ095Tzk3MUJTNUNCajhnRAo2bStDcS9DYzYxZytxMzNOTmNFQ0F3RUFBYU5oTl'
    RWUjBQOVFILOjBUURBZ0trTUIwR0ExVWRKUVFxcK1CUUdDQ3NHQVFRk1J3TUNCZ2dyQmdFRk1RY0RBVEFQ0mdOVkhS1UjBZjhfQ1RBREFRSC9NQjBHQTFFVZERnUVCk'
    0tSNE55ZEZhUghlaHdLbDg4UnVKM096QU5CZ2txaGtpRz13MEJBUXNGQUFQ0FRRUfoY1Zsa3ZsbWpkMUhObmkmMkR5V29NMDZTU5iQXdtWk1JCZkdUUmI1ZHBjUWp'
    Vm5MNGN1WmMwM1h1VmqRwThEMFRWCKdJdJBOZ04vb0hXMT2VkekM3Qk1IRmszhjV5S64zaHRIakVuTDNLQ2hHemNVSDJUM010cjwaCt5cZpZGoraUMKSD1ZQU1RNW'
    uTV1DbGU4TVdINjRiWXBtAEZQRnFqbWZowUpMOUpqSEET23E5Wj1RakZYNHZZcmhNdAorRDQ3YTlhdUJQaVhRZj16MFV5WDDVRU55WjFMY0VpZUFPn1NwbkShZ1Bjd'
    NtZmt0ZjlkRnRDNE9sCmVkeDYrV1BRk110W9uOAVRUhWRXDJSVYxUTN4UXBsUHD2bW5CMS9New10bWVSVUpqW1BNMnhuejdFYmUreEgKcm1QUWppV0pGM2tv0FE9I'
    UVORCBDRVJUSUZJQ0FURSB0tLS0tCg==
    server: https://control-plane.minikube.internal:8443
    name: mk
contexts:
- context:
    cluster: mk
    user: kubernetes-admin
    name: kubernetes-admin@mk
current-context: kubernetes-admin@mk
kind: Config
preferences: {}
users:
- name: kubernetes-admin
  mOwTEt1N2NZ3VKl0hFYzBrU2NKcVFNeUFJvnlhV102dDdieDJUTXA20TAXMU5R01R3ZUwMZBTPxUCnAvSFY1ZGtDZ1lFOXh10VpCTie1bVpGRGxLNIJzRm1TRzV
```

```
root@minikube: /var/lib/minikube/certs

10 history
11 cd /var/lib/minikube/certs/
12 ls
13 openssl genrsa -out kanna.key 1024
14 openssl req -new -key kanna.key -out kanna.csr
15 openssl x509 -req -in kanna.csr -CA ca.crt -CAkey ca.key -CAcreateserial -out kanna.crt -days 1000
16 above steps are to create a certificate for accessing to the cluster
17 history
18 ll
19 chmod o+r kanna.key
20 history
root@minikube:/var/lib/minikube/certs#

-rw----- 1 root root 1675 Dec 19 11: 7 proxv-client.key
```