```
Listen 1234
```

```
   22  yum install httpd  -y
   23  cd /etc/httpd/conf.d/
   24  ls
   25  vim kanna.conf
   26  history
[root@ip-172-31-46-175 conf.d]#



   19  minikube start --driver=docker
```

```
 22  yum install httpd  -y
 23  cd /etc/httpd/conf.d/
 24  ls
 25  vim kanna.conf
 26  history
 27* systemctl restart httpdsystemctl status httpd.service"
 28  systemctl start httpd
 29  systemctl status httpd.service
 30  yum install httpd  -y
 31  systemctl status httpd.service
 32  systemctl start httpd
 33  journalctl -xeu httpd.service
 34  netstat -tnlp
 35  rm kanna.conf
 36  ls
 37  systemctl start httpd
 38  systemctl status httpd.service
 39  vim kanna.conf
 40  systemctl restart httpd.service
 41  setenforce 0
 42  systemctl restart httpd.service
 43  history
[root@ip-172-31-46-175 conf.d]#
```

```
 32  systemctl start httpd
 33  journalctl -xeu httpd.service
 34  netstat -tnlp
 35  rm kanna.conf
 36  ls
 37  systemctl start httpd
 38  systemctl status httpd.service
 39  vim kanna.conf
 40  systemctl restart httpd.service
 41  setenforce 0
 42  systemctl restart httpd.service
 43  history
[root@ip-172-31-46-175 conf.d]# !34
netstat -tnlp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      978/sshd: /usr/sbin
tcp6       0      0 :::80                   :::*                    LISTEN      2289/httpd
tcp6       0      0 :::22                   :::*                    LISTEN      978/sshd: /usr/sbin
tcp6       0      0 :::1234                 :::*                    LISTEN      2289/httpd
[root@ip-172-31-46-175 conf.d]#
```

```
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

[root@ip-172-31-46-175 html]# curl http://192.168.49.1/kanna.html
welcome to kanna
[root@ip-172-31-46-175 html]# curl http://192.168.49.1:80/kanna.html
welcome to kanna
[root@ip-172-31-46-175 html]# curl http://192.168.49.1:1234/kanna.html
welcome to kanna
[root@ip-172-31-46-175 html]#
```

```
[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME              DATA   AGE
kube-root-ca.crt   1      22h
[ec2-user@ip-172-31-46-175 ~]$
```

```
[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME                 DATA   AGE
kube-root-ca.crt     1      22h
[ec2-user@ip-172-31-46-175 ~]$ kubectl create deploy  mydeploy  --image=vimal13/apache-webserver-php
deployment.apps/mydeploy created
[ec2-user@ip-172-31-46-175 ~]$ kubectl get deploy
NAME        READY   UP-TO-DATE   AVAILABLE   AGE
mydeploy    0/1     1            0           6s
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
NAME                          READY   STATUS    RESTARTS   AGE
mydeploy-7696bd86cd-ftq66     1/1     Running   0          24s
[ec2-user@ip-172-31-46-175 ~]$ kubectl exec  -it  pod/mydeploy-7696bd86cd-ftq66   --  sh
sh-4.2# ^C
sh-4.2# exit
exit
command terminated with exit code 130
[ec2-user@ip-172-31-46-175 ~]$ kubectl exec  -it  pod/mydeploy-7696bd86cd-ftq66   --  bash
[root@mydeploy-7696bd86cd-ftq66 /]# cd /var/www/html/
[root@mydeploy-7696bd86cd-ftq66 html]# ls
index.php
[root@mydeploy-7696bd86cd-ftq66 html]# cd /etc/httpd/conf.d/
[root@mydeploy-7696bd86cd-ftq66 conf.d]# ls
README   autoindex.conf   php.conf   userdir.conf   welcome.conf
[root@mydeploy-7696bd86cd-ftq66 conf.d]#
```

```
Listen 2222

-- INSERT --                                              1,12         All
```
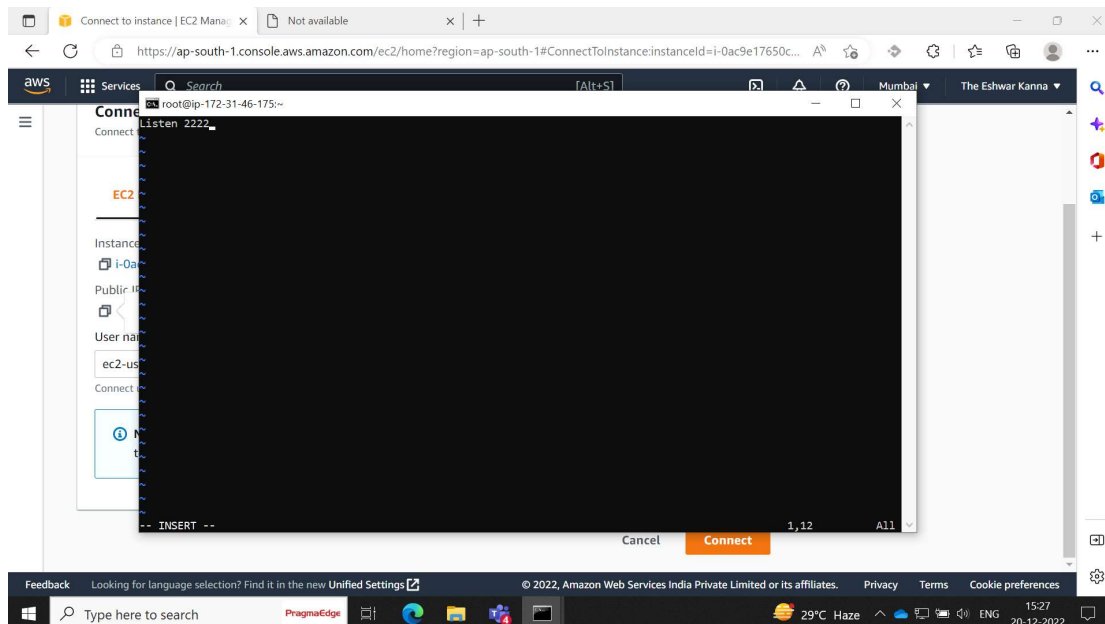
```
[ec2-user@ip-172-31-46-175 ~]$ sudo su -
Last login: Tue Dec 20 09:23:13 UTC 2022 on pts/0
[root@ip-172-31-46-175 ~]# vim myweb.txt
[root@ip-172-31-46-175 ~]#
```

```
[ec2-user@ip-172-31-46-175 ~]$ kubectl create configmap  mywebcm --from-file  myweb.txt
configmap/mywebcm created
[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME                 DATA    AGE
kube-root-ca.crt     1       22h
mywebcm              1       7s
[ec2-user@ip-172-31-46-175 ~]$
```

```
mywebcm                 1       7s
[ec2-user@ip-172-31-46-175 ~]$ kubectl describe mywebcm
error: the server doesn't have a resource type "mywebcm"
[ec2-user@ip-172-31-46-175 ~]$ kubectl describe cm  mywebcm
Name:        mywebcm
Namespace:   default
Labels:      <none>
Annotations: <none>

Data
====
myweb.txt:
----
Listen 2222


BinaryData
====

Events:  <none>
[ec2-user@ip-172-31-46-175 ~]$


[ec2-user@ip-172-31-46-175 ~]$
```

```
apiVersion: v1
kind: Pod
metadata:
  name: configpod
spec:
  containers:
    - name: "cmos"
      image: "vimal13/apache-webserver-php"
      volumeMounts:
        - mountPath: /etc/httpd/conf.d/
          name: mycm
  volumes:
  - configMap:
      name: mywebcm
    name: mycm
```

```
Select ec2-user@ip-172-31-46-175:~

[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME                 DATA    AGE
kube-root-ca.crt     1       22h
mywebcm              1       17m
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
Error from server (BadRequest): error when creating "pod_config.yml": Pod in version "v1" cannot be handl
configmap"
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
pod/configpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$
```

```
Select ec2-user@ip-172-31-46-175:~

[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME                 DATA    AGE
kube-root-ca.crt     1       22h
mywebcm              1       17m
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
Error from server (BadRequest): error when creating "pod_config.yml": Pod in version "v1" cannot be handl
configmap"
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
pod/configpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl get pods
NAME                        READY    STATUS     RESTARTS    AGE
configpod                   1/1      Running    0           33s
mydeploy-7696bd86cd-ftq66   1/1      Running    0           33m
[ec2-user@ip-172-31-46-175 ~]$
```

```
[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME                  DATA    AGE
kube-root-ca.crt      1       22h
mywebcm               1       17m
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
Error from server (BadRequest): error when creating "pod_config.yml": Pod in version "v1" cannot be handl
configmap"
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
pod/configpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl get pods
NAME                       READY    STATUS     RESTARTS    AGE
configpod                  1/1      Running    0           33s
mydeploy-7696bd86cd-ftq66  1/1      Running    0           33m
[ec2-user@ip-172-31-46-175 ~]$ kubectl exec -it pod/configpod  -- bash
[root@configpod /]# cd /etc/httpd/conf.d/
[root@configpod conf.d]# ls
myweb.txt
[root@configpod conf.d]#
```

```
Error from server (BadRequest): error when creating "pod_config.yml": Pod in version "v1" cannot be handl
configmap"
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
pod/configpod created
[ec2-user@ip-172-31-46-175 ~]$ sudo vim pod_config.yml
[ec2-user@ip-172-31-46-175 ~]$ kubectl get pods
NAME                       READY    STATUS     RESTARTS    AGE
configpod                  1/1      Running    0           33s
mydeploy-7696bd86cd-ftq66  1/1      Running    0           33m
[ec2-user@ip-172-31-46-175 ~]$ kubectl exec -it pod/configpod  -- bash
[root@configpod /]# cd /etc/httpd/conf.d/
[root@configpod conf.d]# ls
myweb.txt
[root@configpod conf.d]# cat myweb.txt
Listen 2222
[root@configpod conf.d]# this file is created in base os and it is mounted to pod using configMap
```

```
# Please edit the object below. Lines beginning with a '#' will be ignored,
# and an empty file will abort the edit. If an error occurs while saving this file will be
# reopened with the relevant failures.
#
apiVersion: v1
data:
  myweb.txt: |
    Listen 3333
kind: ConfigMap
metadata:
  creationTimestamp: "2022-12-20T10:00:24Z"
  name: mywebcm
  namespace: default
  resourceVersion: "17964"
  uid: 4cf95bea-6e6f-468c-9930-e5b0b14530ad
~
~
~
~
~
~
~
~
~
~
```

Type here to search   PragmaEdge   29°C Haze   ENG   15:56 20-12-2022

```
[root@configpod conf.d]# exit
exit
[ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ kubectl edit cm mywebcm
configmap/mywebcm edited
[ec2-user@ip-172-31-46-175 ~]$
```

Type here to search   PragmaEdge   29°C Haze   ENG   15:57 20-12-2022

```
[ec2-user@ip-172-31-46-175 ~]$ kubectl edit cm mywebcm
configmap/mywebcm edited
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
NAME                        READY    STATUS    RESTARTS    AGE
configpod                   1/1      Running   0           4m18s
mydeploy-7696bd86cd-ftq66   1/1      Running   0           37m
[ec2-user@ip-172-31-46-175 ~]$ kubectl delete po/configpod
pod "configpod" deleted
[ec2-user@ip-172-31-46-175 ~]$ kubectl get po
NAME                        READY    STATUS    RESTARTS    AGE
mydeploy-7696bd86cd-ftq66   1/1      Running   0           37m
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f pod_config.yml
pod/configpod created
[ec2-user@ip-172-31-46-175 ~]$ kubectl exec -it pod/configpod  -- bash
[root@configpod /]# cd /etc/httpd/conf.d/
[root@configpod conf.d]# ls
myweb.txt
[root@configpod conf.d]# cat myweb.txt
Listen 3333
[root@configpod conf.d]#
```

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: mycm2

data:
  lw.conf:
    listen 1234
    x 5
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

```
====

Events:   <none>
[ec2-user@ip-172-31-46-175 ~]$ kubectl describe  cm/mycm2
[ec2-user@ip-172-31-46-175 ~]$ vim configmap.yml
[ec2-user@ip-172-31-46-175 ~]$ [ec2-user@ip-172-31-46-175 ~]$
[ec2-user@ip-172-31-46-175 ~]$ kubectl create -f configmap.yml
```

```
[ec2-user@ip-172-31-46-175 ~]$ kubectl get cm
NAME              DATA    AGE
kube-root-ca.crt    1       23h
mycm2               1       85s
mywebcm             1       33m
[ec2-user@ip-172-31-46-175 ~]$ kubectl describe cm/mycm2
Name:        mycm2
Namespace:   default
Labels:      <none>
Annotations: <none>

Data
====
lw.conf:
----
listen 1234 x 5

BinaryData
====

Events:   <none>
[ec2-user@ip-172-31-46-175 ~]$
```