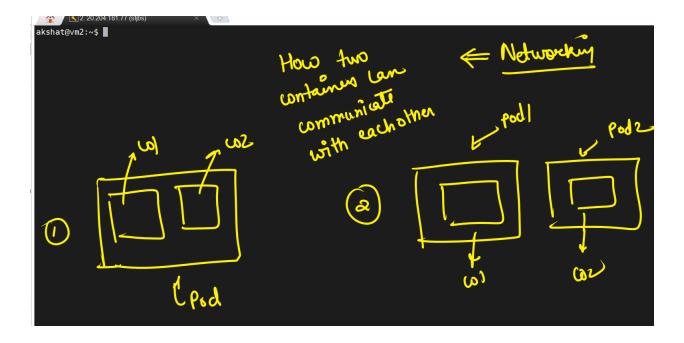
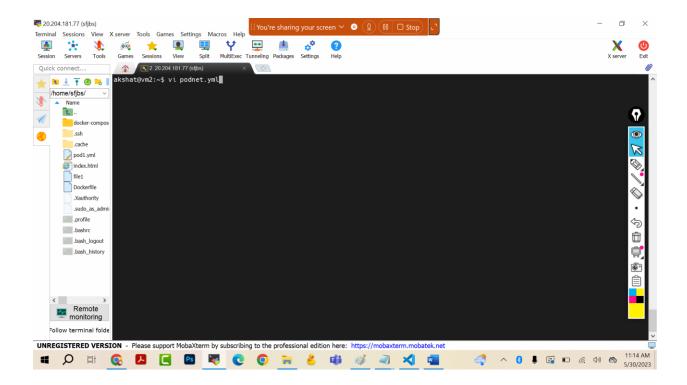
Networking and eni



Create two container in a single pod and check if they are able to communicate with each other or not



We will get inside the pod and in container c00 and check if we are able to access web server httpd via that or not

```
akshat@vm2:~$ vi podnet.yml
akshat@vm2:~$ kubectl apply -f podnet.yml
pod/testpod1 created
akshat@vm2:~$
```

```
akshat@vm2:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
testpod1 2/2 Running 0 13s
akshat@vm2:~$ ■
```

Now we will enter inside the c00 of pod testpod1 and check if we are able to access the files or not

```
*\shat@vm2:~\$ kubectl exec testpod1 -it -c c00 -- /bin/bash
```

-it: interactive terminal

- c : container

/bin/bash : bash terminal

apt update -y

apt install curl -y

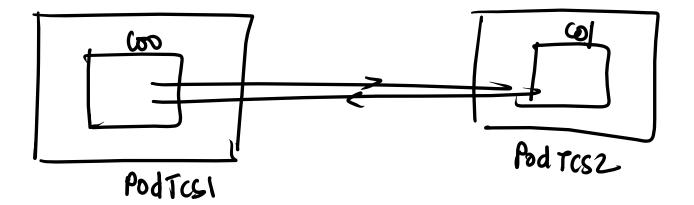
curl localhost:80

```
root@testpod1:/# curl localhost:80
<html><body><h1>It works!</h1></body></html>
root@testpod1:/#
```

exit

Two containers in the same pod can communicate with each other directly

TWO PODS HAVING TWO DIFFERENT CONTAINERS



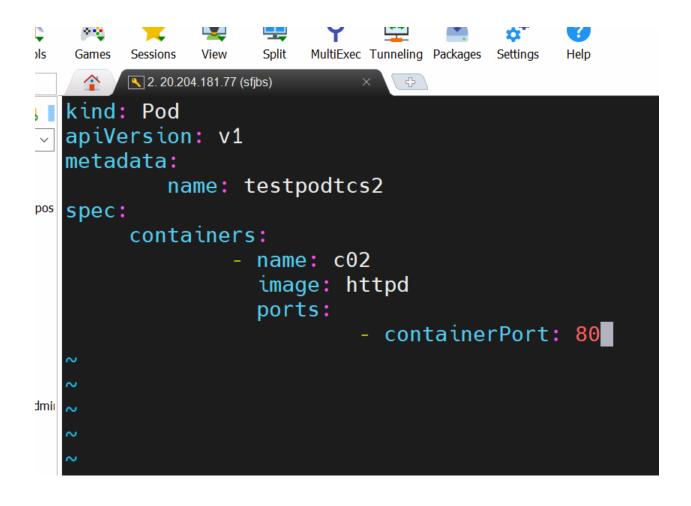
```
akshat@vm2:~$ vi podtcs1.yml

■
```

```
akshat@vm2:~$ kubectl apply -f podtcs1.yml pod/testpodtcs1 created akshat@vm2:~$ ■
```

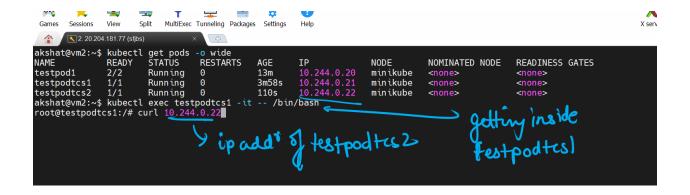
Now lets create another pod:

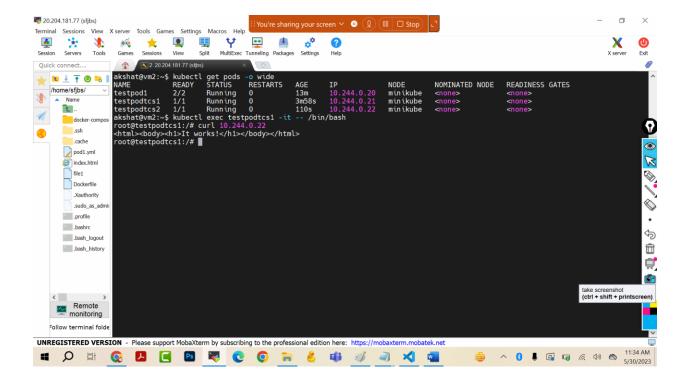
vi testpodtcs2.yml



```
pod/testpodtcs2 created
akshat@vm2:~$
akshat@vm2:~$ kubectl get pods
NAME
             READY
                     STATUS
                                          AGE
                               RESTARTS
testpod1
             2/2
                     Running
                                          11m
                               0
testpodtcs1
             1/1
                     Running
                                          2m28s
                               0
testpodtcs2
              1/1
                     Running
                               0
                                          20s
akshat@vm2:~$
```

akshat@vm2:~\$ kubectl apply -f testpodtcs.yml





exit

now lets get inside the testpodtcs2 and try to access the container webserver of testpodtcs1

kubectl exec testpodtcs2 -it -- /bin/bash

apt update -y

apt install curl -y

```
2. 20.204.181.77 (sfjbs)
    root@testpodtcs2:/usr/local/apache2# curl 10.244.0.21
    <!DOCTYPE html>
    <html>
    <head>
    <title>Welcome to nginx!</title>
mpos <style>
    html { color-scheme: light dark; }
    body { width: 35em; margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif; }
    </style>
    </head>
    <body>
    <h1>Welcome to nginx!</h1>
    If you see this page, the nginx web server is successfully instal
    working. Further configuration is required.
admin For online documentation and support please refer to
    <a href="http://nginx.org/">nginx.org</a>.<br/>
    Commercial support is available at
    <a href="http://nginx.com/">nginx.com</a>.
out
    <em>Thank you for using nginx.</em>
torv
    </body>
    </html>
    root@testpodtcs2:/usr/local/apache2#
```

exit

It proves that within the cluster the containers inside the pod can communicate with each other.