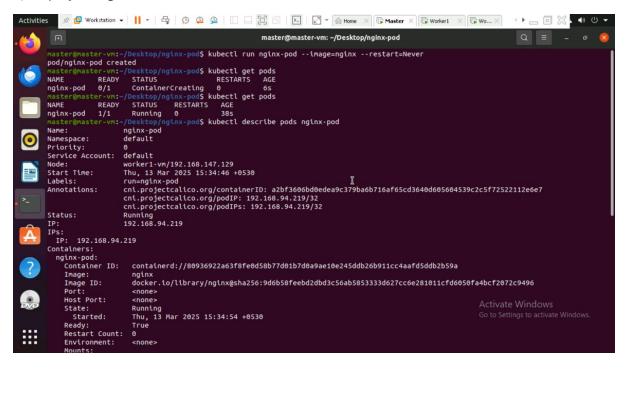## Q. Deploy an Nginx Pod

Q. Create an Nginx Deployment and scale it

Terminal 1:

```
master@master-vm:~/Desktop/nginx-pod$ kubectl create deployment nginx-deployment --image=nginx
deployment.apps/nginx-deployment created
master@master-vm:~/Desktop/nginx-pod$ kubectl get deployments
NAME               READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment   0/1     1            0           7s
master@master-vm:~/Desktop/nginx-pod$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-6d6565499c-9vz2r   1/1     Running   0          16s
master@master-vm:~/Desktop/nginx-pod$ kubectl scale deployment nginx-deployment --replicas=3
deployment.apps/nginx-deployment scaled
master@master-vm:~/Desktop/nginx-pod$ kubectl get pods
NAME                                READY   STATUS             RESTARTS   AGE
nginx-deployment-6d6565499c-5b898   0/1     ContainerCreating  0          6s
nginx-deployment-6d6565499c-9vz2r   1/1     Running            0          2m32s
nginx-deployment-6d6565499c-bq4mx   0/1     ContainerCreating  0          6s
master@master-vm:~/Desktop/nginx-pod$ kubectl get deployments
NAME               READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment   2/3     3            2           2m40s
master@master-vm:~/Desktop/nginx-pod$ kubectl get pods -o wide
NAME                                READY   STATUS          RESTARTS   AGE    IP               NODE          NOMINATED NODE   READ
INESS GATES
nginx-deployment-6d6565499c-5b898   1/1     Running         0          41s    192.168.94.221   worker1-vm    <none>           <non
e>
nginx-deployment-6d6565499c-9vz2r   1/1     Running         0          3m7s   192.168.94.220   worker1-vm    <none>           <non
e>
nginx-deployment-6d6565499c-bq4mx   0/1     ImagePullBackOff 0         41s    192.168.114.89   worker2-vm    <none>           <non
e>
master@master-vm:~/Desktop/nginx-pod$
```

Terminal 2:

```
QoS Class:         BestEffort
Node-Selectors:    <none>
Tolerations:       node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                   node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type     Reason     Age                 From                Message
  ----     ------     ----                ----                -------
  Normal   Scheduled  3m5s                default-scheduler   Successfully assigned default/nginx-deployment-6d6565499c-bq4mx to wo
rker2-vm
  Warning  Failed     2m50s               kubelet             Failed to pull image "nginx": failed to pull and unpack image "docker
.io/library/nginx:latest": failed to resolve reference "docker.io/library/nginx:latest": failed to authorize: failed to fetch oauth
token: Post "https://auth.docker.io/token": net/http: TLS handshake timeout
  Warning  Failed     2m50s               kubelet             Error: ErrImagePull
  Normal   BackOff    2m49s               kubelet             Back-off pulling image "nginx"
  Warning  Failed     2m49s               kubelet             Error: ImagePullBackOff
  Normal   Pulling    2m36s (x2 over 3m4s) kubelet            Pulling image "nginx"
  Normal   Pulled     69s                 kubelet             Successfully pulled image "nginx" in 1m26.867s (1m26.867s including w
aiting)
  Normal   Created    69s                 kubelet             Created container nginx
  Normal   Started    68s                 kubelet             Started container nginx
master@master-vm:~/Desktop/nginx-pod$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-6d6565499c-5b898   1/1     Running   0          3m28s
nginx-deployment-6d6565499c-9vz2r   1/1     Running   0          5m54s
nginx-deployment-6d6565499c-bq4mx   1/1     Running   0          3m28s
master@master-vm:~/Desktop/nginx-pod$ kubectl get deployments
NAME               READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment   3/3     3            3           6m1s
master@master-vm:~/Desktop/nginx-pod$ kubectl get pods -o wide
NAME                                READY   STATUS    RESTARTS   AGE    IP               NODE          NOMINATED NODE   READINESS GA
TES
nginx-deployment-6d6565499c-5b898   1/1     Running   0          3m41s  192.168.94.221   worker1-vm    <none>           <none>
nginx-deployment-6d6565499c-9vz2r   1/1     Running   0          6m7s   192.168.94.220   worker1-vm    <none>           <none>
nginx-deployment-6d6565499c-bq4mx   1/1     Running   0          3m41s  192.168.114.89   worker2-vm    <none>           <none>
master@master-vm:~/Desktop/nginx-pod$
```