[Guvi Task]
Day 3 - Kubernetes - Pods & Services

TASK: Pods and Services in Kubernetes Deployment

```
Initialized                      True
Ready                            True
ContainersReady                  True
PodScheduled                     True
Volumes:
  kube-api-access-8p5n9:
    Type:                        Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds:      3607
    ConfigMapName:               kube-root-ca.crt
    ConfigMapOptional:           <nil>
    DownwardAPI:                 true
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  6m40s  default-scheduler  Successfully assigned default/nginx-pod to ip-192-168-16-41.ap-south-1.compute.internal
  Normal  Pulling    6m39s  kubelet            Pulling image "nginx"
  Normal  Pulled     6m31s  kubelet            Successfully pulled image "nginx" in 8.185s (8.185s including waiting). Image size: 70985377 byt
es.
  Normal  Created    6m31s  kubelet            Created container nginx-container
  Normal  Started    6m31s  kubelet            Started container nginx-container
ubuntu@ip-172-31-15-144:~/app1$
```

i-018038ec3278ac878 (EKS-demo)   X

PublicIPs: 52.66.152.221   PrivateIPs: 172.31.15.144

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  labels:
    app: nginx
    tier: dev
spec:
  containers:
  - name: nginx-container
    image: nginx
~
~
~
~
~
~
~
~
-- INSERT --                                                        12,1            All
```

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```
  Normal  Pulling   6m39s  kubelet           Pulling image "nginx"
  Normal  Pulled    6m31s  kubelet           Successfully pulled image "nginx" in 8.185s (8.185s including waiting). Image size: 70985377 byt
es.
  Normal  Created   6m31s  kubelet           Created container nginx-container
  Normal  Started   6m31s  kubelet           Started container nginx-container
ubuntu@ip-172-31-15-144:~/appl$
ubuntu@ip-172-31-15-144:~/appl$ vi deploy.yaml
ubuntu@ip-172-31-15-144:~/appl$ kubectl create -f deploy.yaml
deployment.apps/nginx-deploy created
ubuntu@ip-172-31-15-144:~/appl$ kubectl get all
NAME                                    READY     STATUS     RESTARTS   AGE
pod/nginx-deploy-77cd89c769-vln8d       0/1       Pending    0          30s
pod/nginx-deploy-77cd89c769-w56b4       0/1       Pending    0          30s
pod/nginx-deploy-77cd89c769-xmbp2       1/1       Running    0          30s
pod/nginx-pod                           1/1       Running    0          25m

NAME                 TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
service/kubernetes   ClusterIP   10.100.0.1    <none>         443/TCP    59m

NAME                          READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/nginx-deploy  1/3     3            1           30s

NAME                                    DESIRED   CURRENT   READY   AGE
replicaset.apps/nginx-deploy-77cd89c769    3         3         1     30s
ubuntu@ip-172-31-15-144:~/appl$
```

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```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deploy
spec:
  replicas: 3
  selector:
    matchLabels:
      app: web
  template:
    metadata:
      labels:
        app: web
    spec:
      containers:
      - name: mycontainer
        image: nginx:1.7.9
        ports:
        - containerPort: 80




~
~
~
"deploy.yaml" 21L, 315B                                              1,13         All
```

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```
ubuntu@ip-172-31-15-144:~/app1$
ubuntu@ip-172-31-15-144:~/app1$
ubuntu@ip-172-31-15-144:~/app1$
ubuntu@ip-172-31-15-144:~/app1$ kubectl get deploy
NAME           READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deploy   1/3     3            1           5m36s
ubuntu@ip-172-31-15-144:~/app1$ kubectl get all
NAME                                READY   STATUS    RESTARTS   AGE
pod/nginx-deploy-77cd89c769-vln8d   0/1     Pending   0          6m36s
pod/nginx-deploy-77cd89c769-w56b4   0/1     Pending   0          6m36s
pod/nginx-deploy-77cd89c769-xmbp2   1/1     Running   0          6m36s
pod/nginx-pod                       1/1     Running   0          31m

NAME                 TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.100.0.1   <none>        443/TCP   65m

NAME                           READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/nginx-deploy   1/3     3            1           6m36s

NAME                                      DESIRED   CURRENT   READY   AGE
replicaset.apps/nginx-deploy-77cd89c769   3         3         1       6m36s
ubuntu@ip-172-31-15-144:~/app1$
ubuntu@ip-172-31-15-144:~/app1$
ubuntu@ip-172-31-15-144:~/app1$
ubuntu@ip-172-31-15-144:~/app1$
```

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