LAB₁

Q 1:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl get pods
No resources found in default namespace.
salmamyoussef@salmamyoussef-Satellite-C55-B:~$
```

Q2:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl get nodes

NAME STATUS ROLES AGE VERSION

minikube Ready control-plane 2d17h v1.25.3
```

Q3:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl run nginx --image=nginx --restart=Never pod/nginx created salmamyoussef@salmamyoussef-Satellite-C55-B:~$
```

Q4:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:-$ kubectl describe pod nginx
Name:
                  nginx
Namespace:
                  default
Priority:
Service Account: default
                  minikube/192.168.59.100
Node:
Start Time:
                  Sat, 21 Jan 2023 13:43:20 +0200
Labels:
                  run=nginx
Annotations:
                  <none>
Status:
                  Running
                  172.17.0.3
IP:
IPs:
 IP: 172.17.0.3
Containers:
  nginx:
                    docker://37bb2bad25bbaf747c5feb21d3dc78e02e3c7defcccb495d4f948435a96da9ab
   Container ID:
    Image:
    Image ID:
                    docker-pullable://nginx@sha256:b8f2383a95879e1ae064940d9a200f67a6c79e710ed82ac
42263397367e7cc4e
```

Q5:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernates/lab1$ kubectl apply -f ./webapp.y aml pod/webapp created
```

Q6:

2 containers: nginx container and agentx container.

```
nginx:
    Container ID:
                    docker://8918071f48d529b6d3367c05ed9d22fe128b4fbbad5b50aa2dac0c0a3e936232
    Image:
    Image ID:
                     docker-pullable://nginx@sha256:b8f2383a95879e1ae064940d9a200f67a6c79e710ed82ac42263397367e7
cc4e
    Port:
   Host Port:
                    <none>
    State:
                    Runnina
                     Sat, 21 Jan 2023 13:58:01 +0200
     Started:
                     Trué
    Ready:
    Restart Count:
    Environment:
                     <none>
 /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-gfp8q (ro) agentx:
    Container ID:
    Image:
                     agentx
    Image ID:
   Port:
Host Port:
                     <none>
                     <none>
                    Waiting
    State:
                     ImagePullBackOff
     Reason:
```

Q7:

images: nginx, agentx

```
Containers:
 nginx:
    Container ID:
                     docker://8918071f48d529b6d3367c05ed9d22fe128b4fbbad5b50aa2dac0c0a3e936232
    Image:
    Image ID:
                     docker-pullable://nginx@sha256:b8f2383a95879e1ae064940d9a200f67a6c79e710ed82ac42263397367e7
cc4e
    Port:
                     <none>
    Host Port:
                     <none>
    State:
                     Running
      Started:
                     Sat, 21 Jan 2023 13:58:01 +0200
   Ready:
Restart Count:
                     True
    Environment:
                     <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-gfp8q (ro)
  agentx:
    Container ID:
    Image:
                     agentx
    Image ID:
    Port:
                     <none>
    Host Port:
                     <none>
                     Waiting
    State:
     Reason:
                     ImagePullBackOff
```

Q8:

```
Container ID:
Image:
                agentx
Image ID:
Port:
                <none>
Host Port:
                Waiting
State:
                ImagePullBackOff
 Reason
                False
Ready:
Restart Count:
Environment:
                <none>
Mounts:
  /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-gfp8q
```

Q9:

```
Warning Failed 105s (x4 over 2m59s) kubelet Error: ImagePullBackOff

Normal Pulling 90s (x4 over 3m7s) kubelet Pulling image "agentx"

Warning Failed 88s (x4 over 2m59s) kubelet Failed to pull image "agentx": rpc error: code = Unknown desc = Error response from daemon: pull access denied for agentx, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
```

Q10:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernates/lab1$ kubectl delete pod webapp
pod "webapp" deleted
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernates/lab1$
```

Q11:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernates/lab1$ kubectl run redis --image=redis123
pod/redis created
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernates/lab1$
```

Q12:

```
salmamyoussef@salmamyoussef-Satellite-C55-B: ~
                                                                                     Q
# 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
kind: Pod
metadata:
  creationTimestamp: "2023-01-21T12:19:11Z"
  labels:
    run: redis
  name: redis
  namespace: default
  resourceVersion: "122296"
  uid: 08f69af1-c46a-4550-a387-0df3c9812edb
spec:
  containers:
    image: redis
imagePullPolicy: Always
    name: redis
     resources: {}
     terminationMessagePath: /dev/termination-log
     terminationMessagePolicy: File
    volumeMounts:
 '/tmp/kubectl-edit-1783734083.yaml" 102 lines, 2753 bytes
```

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl get pods redis
NAME READY STATUS RESTARTS AGE
redis 1/1 Running 0 30m
salmamyoussef@salmamyoussef-Satellite-C55-B:~$
```

Q13:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl run my-pod --image=nginx:alpine
pod/my-pod created
salmamyoussef@salmamyoussef-Satellite-C55-B:~$
```

Q14: