

## Lab Guide 2

### Pods:

Q.1 Create a Pod using httpd image and name of POD should be pod1.

Q.2 Create a Pod using nginx image and name of POD should be pod2.

Q.3 Create a Pod using yaml method, and use nginx image and name of POD should be yamlpod1.

Q.4 Create a Pod using yaml method, and use mdhack/myserver image and name of POD should be yamlpod2

Ans: 1

```
kubectl run pod1 --image httpd
```

```
kubectl get pods
```

```
root@master:~# kubectl run pod1 --image httpd
pod/pod1 created
root@master:~# kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
mayank-6c949d7dc7-64pzk	1/1	Running	0	3m11s
pod1	1/1	Running	0	28s

```
root@master:~#
```

Ans: 2

```
kubectl run pod2 --image nginx
```

```
kubectl get pods pod2
```

```
root@master:~# kubectl run pod2 --image nginx
pod/pod2 created
root@master:~# kubectl get pods pod2
```

NAME	READY	STATUS	RESTARTS	AGE
pod2	1/1	Running	0	7s

```
root@master:~#
```

```
kubectl run yamlpod1 --image nginx --dry-run -o yaml
kubectl run yamlpod1 --image nginx --dry-run -o yaml > pod1.yaml
cat pod1.yaml
kubectl create -f pod1.yaml
kubectl get pods
```

```
root@master:~# kubectl run yamlpod1 --image nginx --dry-run -o yaml
W0503 16:53:02.360955      8624 helpers.go:636] --dry-run is deprecated and can be replaced with --dry-run=client.
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: yamlpod1
  name: yamlpod1
spec:
  containers:
  - image: nginx
    name: yamlpod1
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
root@master:~# kubectl run yamlpod1 --image nginx --dry-run -o yaml > pod1.yaml
W0503 16:53:09.096610      8665 helpers.go:636] --dry-run is deprecated and can be replaced with --dry-run=client.
root@master:~# cat pod1.yaml
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: yamlpod1
  name: yamlpod1
spec:
  containers:
  - image: nginx
    name: yamlpod1
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
root@master:~# kubectl create -f pod1.yaml
pod/yamlpod1 created
```

```
root@master:~# kubectl get pods yamlpod1
```

NAME	READY	STATUS	RESTARTS	AGE
yamlpod1	1/1	Running	0	3m21s

```
root@master:~# kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
mayank-6c949d7dc7-64pzk	1/1	Running	0	10m
pod1	1/1	Running	0	7m27s
pod2	1/1	Running	0	5m44s
yamlpod1	1/1	Running	0	3m21s

Ans: 4

```
kubectl run yamlpod2 --image mdhack/myserver --dry-run -o yaml
```

```
kubectl run yamlpod2 --image mdhack/myserver --dry-run -o yaml > pod2.yaml
```

```
cat pod2.yaml
```

```
kubectl create -f pod2.yaml
```

```
kubectl get pods
```

```
root@master:~# kubectl run yamlpod2 --image mdhack/myserver --dry-run -o yaml
W0503 16:57:55.412383    9943 helpers.go:636] --dry-run is deprecated and can be replaced with --dry-run=client.
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: yamlpod2
  name: yamlpod2
spec:
  containers:
  - image: mdhack/myserver
    name: yamlpod2
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
root@master:~# kubectl run yamlpod2 --image mdhack/myserver --dry-run -o yaml > pod2.yaml
W0503 16:58:00.262563    9980 helpers.go:636] --dry-run is deprecated and can be replaced with --dry-run=client.
root@master:~# cat pod2.yaml
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: yamlpod2
  name: yamlpod2
spec:
  containers:
  - image: mdhack/myserver
    name: yamlpod2
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
root@master:~# kubectl create -f pod2.yaml
pod/yamlpod2 created
```

```

root@master:~# kubectl get pods
NAME                                READY    STATUS    RESTARTS    AGE
mayank-6c949d7dc7-64pzk            1/1      Running   0            12m
pod1                                1/1      Running   0            9m48s
pod2                                1/1      Running   0            8m5s
yamlpod1                            1/1      Running   0            5m42s
yamlpod2                            1/1      Running   0            51s
root@master:~# kubectl get pods yamlpod2
NAME            READY    STATUS    RESTARTS    AGE
yamlpod2        1/1      Running   0            53s
root@master:~# █

```

### Clean up your Environment

kubectl delete all --all --force

kubectl get pods

```

root@master:~# kubectl delete all --all --force
warning: Immediate deletion does not wait for confirmation that the running resource has been terminated. The resource may continue to run on the cluster indefinitely.
pod "mayank-6c949d7dc7-64pzk" force deleted
pod "pod1" force deleted
pod "pod2" force deleted
pod "yamlpod1" force deleted
pod "yamlpod2" force deleted
service "mayank" force deleted
deployment.apps "mayank" force deleted
replicaset.apps "mayank-6c949d7dc7" force deleted
root@master:~# kubectl get pods
No resources found in learning namespace.
root@master:~# █

```