Namespace lab:

```
kubectl get namespaces
```

```
root@ubuntu20:~# kubectl get namespaces
NAME              STATUS   AGE
default           Active   18h
kube-flannel      Active   17h
kube-node-lease   Active   18h
kube-public       Active   18h
kube-system       Active   18h
root@ubuntu20:~#
```

```
kubectl describe namespaces default
```

```
root@ubuntu20:~# kubectl describe namespaces default
Name:         default
Labels:       kubernetes.io/metadata.name=default
Annotations:  <none>
Status:       Active

No resource quota.

No LimitRange resource.
root@ubuntu20:~#
```

```
kubectl create namespace test
```

```
kubectl describe namespace test
```

```
root@ubuntu20:~# kubectl create namespace test
namespace/test created
root@ubuntu20:~# kubectl describe namespace test
Name:         test
Labels:       kubernetes.io/metadata.name=test
Annotations:  <none>
Status:       Active

No resource quota.

No LimitRange resource.
root@ubuntu20:~#
```

Create namespace using yaml

apiVersion: v1

kind: Namespace

metadata:

 name: amit

```
root@ubuntu20:~# kubectl create -f amit.yaml
namespace/amit created
root@ubuntu20:~# kubectl describe namespace amit
Name:         amit
Labels:       kubernetes.io/metadata.name=amit
Annotations:  <none>
Status:       Active

No resource quota.

No LimitRange resource.
root@ubuntu20:~# cat amit.yaml
apiVersion: v1
kind: Namespace
metadata:
  name: amit
root@ubuntu20:~#
```

Create ResourceQuota object for namespace, create yaml file

apiVersion: v1

kind: ResourceQuota

metadata:

  name: mem-cpu-demo

spec:

  hard:

    requests.cpu: "1"

    requests.memory: 1Gi

    limits.cpu: "2"

    limits.memory: 2Gi

kubectl create -f mem-cpu-quota.yaml --namespace=test

kubectl describe namespace test

```
root@ubuntu20:~# kubectl describe namespace test
Name:           test
Labels:         kubernetes.io/metadata.name=test
Annotations:    <none>
Status:         Active

Resource Quotas
  Name:          mem-cpu-demo
  Resource       Used  Hard
  --------       ---   ---
  limits.cpu     0     2
  limits.memory  0     2Gi
  requests.cpu   0     1
  requests.memory 0    1Gi
```