NameSpace:

```
controlplane:~$ kubectl get ns
NAME                STATUS   AGE
default             Active   21d
kube-node-lease     Active   21d
kube-public         Active   21d
kube-system         Active   21d
local-path-storage  Active   21d
controlplane:~$ kubectl create ns ns1
namespace/ns1 created
controlplane:~$ kubectl get pods
No resources found in default namespace.
controlplane:~$ kubectl get ns
NAME                STATUS   AGE
default             Active   21d
kube-node-lease     Active   21d
kube-public         Active   21d
kube-system         Active   21d
local-path-storage  Active   21d
ns1                 Active   15s
controlplane:~$ kubectl describe ns ns1
Name:         ns1
Labels:       kubernetes.io/metadata.name=ns1
Annotations:  <none>
Status:       Active

No resource quota.

No LimitRange resource.
controlplane:~$ vi pod.yaml
controlplane:~$ kubectl apply -f pod.yaml
pod/nginx created
controlplane:~$ kubectl get pods -n ns1
NAME    READY   STATUS    RESTARTS   AGE
nginx   1/1     Running   0          17s
```

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: nginx
  namespace: ns1
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

~
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~

```
controlplane:~$ kubectl config set-context --current --namespace=ns1
Context "kubernetes-admin@kubernetes" modified.
controlplane:~$ kubectl config view | grep -i namespace
    namespace: ns1
controlplane:~$ vi pod.yaml
controlplane:~$ kubectl apply -f pod.yaml
pod/nginx1 created
controlplane:~$ kuebctl get pods
kuebctl: command not found
controlplane:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx     1/1     Running   0          3m42s
nginx1    1/1     Running   0          20s
controlplane:~$
```

```yaml
apiVersion: v1
kind: ResourceQuota
metadata:
  name: mem-cpu-demo
spec:
  hard:
    pods: 10
    requests.cpu: "1"
    requests.memory: 1Gi
    limits.cpu: "2"
    limits.memory: 2Gi
```

```
controlplane:~$ vi resourcequotes.yaml
controlplane:~$ kubectl apply -f resourcequotes.yaml --namespace=ns1
resourcequota/mem-cpu-demo created
controlplane:~$ kubectl describe ns ns1
Name:         ns1
Labels:       kubernetes.io/metadata.name=ns1
Annotations:  <none>
Status:       Active

Resource Quotas
  Name:             mem-cpu-demo
  Resource          Used  Hard
  --------          ---   ---
  limits.cpu        0     2
  limits.memory     0     2Gi
  pods              2     10
  requests.cpu      0     1
  requests.memory   0     1Gi

No LimitRange resource.
controlplane:~$ vi deploy.yaml
controlplane:~$ kubectl apply -f deploy.yaml
deployment.apps/nginx-deployment created
controlplane:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx     1/1     Running   0          20m
nginx1    1/1     Running   0          16m
controlplane:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx     1/1     Running   0          20m
nginx1    1/1     Running   0          17m
controlplane:~$ kubectl get deploy
NAME               READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment   0/20    0            0           27s
```

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  namespace: ns1
  labels:
    app: nginx
spec:
  replicas: 8
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:1.14.2
        resources:
         requests:
           memory: "64Mi"
           cpu: "250m"
         limits:
           memory: "128Mi"
           cpu: "500m"
        ports:
        - containerPort: 80
```

~
~
~
~
"deploy.yaml" 30L, 514B

```
controlplane:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx                               1/1     Running   0          46m
nginx-deployment-59cf44d54c-4xkrk   1/1     Running   0          4m
nginx-deployment-59cf44d54c-cmslb   0/1     Pending   0          4m
nginx-deployment-59cf44d54c-hzrb8   1/1     Running   0          4m
nginx-deployment-59cf44d54c-pdr98   1/1     Running   0          4m
nginx1                              1/1     Running   0          42m
controlplane:~$ kubectl get ns
NAME              STATUS   AGE
default           Active   21d
kube-node-lease   Active   21d
kube-public       Active   21d
kube-system       Active   21d
local-path-storage Active  21d
ns1               Active   47m
controlplane:~$ kubectl describe ns ns1
Name:         ns1
Labels:       kubernetes.io/metadata.name=ns1
Annotations:  <none>
Status:       Active

Resource Quotas
  Name:            mem-cpu-demo
  Resource         Used    Hard
  --------         ---     ---
  limits.cpu       2       2
  limits.memory    512Mi   2Gi
  pods             6       10
  requests.cpu     1       1
  requests.memory  256Mi   1Gi

No LimitRange resource.
```