```
root@master:~# kubectl create ns iti-43 namespace/iti-43 created root@master:~#
```

```
root@master:~# kubectl get ns
                  STATUS
NAME
                            AGE
kube-system
                  Active
                            3d10h
kube-public
                  Active
                            3d10h
kube-node-lease
                  Active
                            3d10h
                  Active
default
                            3d10h
iti-43
                  Active
                            76s
root@master:~#
```

```
apiVersion: v1
clusters:
cluster:
    certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUJlRENDQVIyZ0F3SUJBZ0lCQURB
S0JnZ3Foa2pPUFFRREFqQWpNU0V3SHdZRFZRUUREQmhyTTNNdGMyVnkKZG1WeUxXTmhRREUzTURVNU9UVTNPRFF3SGhjTk1qUXdN
VEL6TURjME16QTBXaGNOTXpRd01USXdNRGMwTXpBMApXakFqTVNFd0h3WURWUVFEREJock0zTXRjMLZ5ZG1WeUxXTmhRREUzTURV
NU9UVTNPRFF3V1RBVEJnY3Foa2pPClBRSUJCZ2dxaGtqT1BrTUJCd05DQUFSVkN5NG1rL1VCaEdFM1BIb05ibm9PMGF5SFJIM0V3
OFdzbWVKSW1MLzUKUitlMllLS3NoMEYzeVozM1BLMlRsZC81ZkwyOHFrSXlsSzh5ZnplcnRDRkpvMEl3UURBT0JnTlZIUThCQWY4
RQpCQU1DQXFRd0R3WURWUjBUQVFIL0JBVXdBd0VCL3pBZEJnTlZIUTRFRmdRVUJ2L09ka1B1YUNHTWZPZDg0MlJuCnZiUmJxQUV3
Q2dZSUtvWkl6ajBFQXdJRFNRQXdSZ0loQU9XdzJVUksrTTVXRVpuWEhSVzYydU84cXF5UHFC0EYKN3ZHbmĨrNnN2MkVjQWlFQTdT
d3JlYkZHY3g3U09Dc2JTaEtjYnZJbjdTeHpyK283ODRST1REZUhKVUU9Ci0tLS0tRU5EIENFUlRJRklDQVRFLS0tLS0K
    server: https://127.0.0.1:6443
  name: k3s
contexts:
context:
    cluster: k3s
    user: default
    namespace: iti-43
  name: default
```

```
root@master:~# kubectl create deployment k3s --image httpd:latest --replicas=2 --namespace iti-43
deployment.apps/k3s created
root@master:~# kubectl get pods
                       READY
                                          RESTARTS
NAME
                               STATUS
                                                     AGE
k3s-57477fbdb5-8xvb2
                       1/1
                               Running
                                                     41s
                       1/1
k3s-57477fbdb5-lcn5r
                               Running
                                                     41s
root@master:~#
```

```
2
```

```
root@master:~# vim kubectl-hostnames
root@master:~# chmod a+x kubectl-hostnames
root@master:~# echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/sbin:/shin:/snap/bin
root@master:~# cp kubectl-hostnames /usr/local/sbin
root@master:~# kubectl hostnames
NAME
master
```

```
root@master:~# cat kubectl-hostnames
#!/bin/bash
kubectl get nodes -o custom-columns=NAME:.metadata.name
root@master:~#
```

3.

```
root@master:~# kubectl create deployment nginx --image=nginx:alpine --replicas=3 --dry-run=client -o yaml > nginx.yaml root@master:~# vim nginx.yaml
```

```
root@master:~# cat
                    nginx.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: nginx
  name: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
    spec:
      containers:
      - image: nginx:alpine
        name: nginx
        env:
          - name: FOO
            value: ITI
```

```
root@master:~# vim nginx.yaml
root@master:~# kubectl apply -f nginx.yaml
deployment.apps/nginx created
```

nginx-8f47944d4-vpl6x	1/1	Running	0	2m40s
nginx-8f47944d4-zcwcq	1/1	Running	0	2m40s
nginx-8f47944d4-pht9z	1/1	Running	0	2m40s
root@master:~#		_		