2.nginx deployment

1.deployment creation...

-Ng-dep deployment created and deployment ready"

Using command: **kubectl apply -f deployment.yaml**


```
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl create deployment ng-dep --image=nginx --dry-run=client -o yaml >deploy.yaml
root@kubemaster-vm:/home/kubemaster/kubeexm# ls
deploy.yaml
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl apply -f deploy.yaml
deployment.apps/ng-dep created
```



```
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl get deploy
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
ng-dep    1/1     1            1           51s
root@kubemaster-vm:/home/kubemaster/kubeexm#
```



```
  GNU nano 4.8                              deploy.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: ng-dep
  name: ng-dep
spec:
  replicas: 1
  selector:
    matchLabels:
      app: ng-dep
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: ng-dep
    spec:
      containers:
      - image: nginx
        name: nginx
        resources: {}
status: {}
```

Service creation :

-service created:

Using command : **kubectl apply -f service.yaml**


```
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl expose deployment ng-dep --port=80 --target-port=8080 --type=NodePo
rt --dry-run=client -o yaml >service.yaml
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl apply -f service.yaml
service/ng-dep created
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl get svc
NAME            TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
kubernetes      ClusterIP   10.96.0.1       <none>        443/TCP        6d16h
ng-dep          NodePort    10.111.10.190   <none>        80:31957/TCP   6s
vilaspod        ClusterIP   10.105.152.65   <none>        80/TCP         4d17h
root@kubemaster-vm:/home/kubemaster/kubeexm#
```



```
  GNU nano 4.8                                         service.yaml
apiVersion: v1
kind: Service
metadata:
  creationTimestamp: null
  labels:
    app: ng-dep
  name: ng-dep
spec:
  ports:
  - port: 80
    protocol: TCP
    targetPort: 8080
  selector:
    app: ng-dep
  type: NodePort
status:
  loadBalancer: {}
```

Verification and externel access:

```
root@kubemaster-vm:/home/kubemaster/kubeexm# kubectl get svc
NAME          TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)         AGE
kubernetes    ClusterIP   10.96.0.1        <none>        443/TCP         6d16h
ng-dep        NodePort    10.111.10.190    <none>        80:31957/TCP    26m
vilaspod      ClusterIP   10.105.152.65    <none>        80/TCP          4d17h
root@kubemaster-vm:/home/kubemaster/kubeexm# curl 10.111.10.190
```

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
root@kubemaster-vm:/home/kubemaster/kubeexm#
```