

- TASK4:
- `kubectl create deployment --image=nginx --port=80`
- `kubectl create deployment webapp --image=nginx --port=80`
- `kubectl expose webapp --type=Nodeport --port=80 --target=--port=80`
- `kubectl expose deployment webapp --type=Nodeport --port=80 --target=--port=80`
- `kubectl expose deployment webapp --type=NodePort --port=80 --target-port=80`
- `kubectl get pods`
- `kubectl get svc`
- `minikube service webapp`

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root@ubuntu: /home/minikubeuser
> kubeadm.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubectl: 54.67 MiB / 54.67 MiB [-----] 100.00% 1.41 MiB p/s 39s
> kubeadm: 67.66 MiB / 67.66 MiB [-----] 100.00% 1.61 MiB p/s 42s
> kubelet: 73.81 MiB / 73.81 MiB [-----] 100.00% 1.74 MiB p/s 43s
■ Generating certificates and keys ...
■ Booting up control plane ...
■ Configuring RBAC rules ...
Configuring bridge CNI (Container Networking Interface) ...
Verifying Kubernetes components...
■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: storage-provisioner, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
root@ubuntu:/home/minikubeuser# minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

root@ubuntu:/home/minikubeuser# kubectl create deployment --image=nginx --port=80
error: exactly one NAME is required, got 0
See 'kubectl create deployment -h' for help and examples
root@ubuntu:/home/minikubeuser# kubectl create deployment webapp --image=nginx --port=80
deployment.apps/webapp created
root@ubuntu:/home/minikubeuser# kubectl create deployment webapp --image=nginx --port=80
error: failed to create deployment: deployments.apps "webapp" already exists
root@ubuntu:/home/minikubeuser# kubectl expose webapp --type=Nodeport --port=80 --target=port=80
error: unknown flag: --target
See 'kubectl expose --help' for usage.
root@ubuntu:/home/minikubeuser# kubectl expose deployment webapp --type=NodePort --port=80 --target
-port=80
service/webapp exposed
root@ubuntu:/home/minikubeuser# kubectl get pods
NAME                READY   STATUS    RESTARTS   AGE
webapp-869b646d9f-2zmn5 1/1     Running   0           2m53s
root@ubuntu:/home/minikubeuser# kubectl expose deployment webapp --type=NodePort --port=80 --target
-port=80
Error from server (AlreadyExists): services "webapp" already exists

```

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root@ubuntu: /home/minikubeuser
root@ubuntu:/home/minikubeuser# kubectl expose deployment webapp --type=NodePort --port=80 --target-port=80
Error from server (AlreadyExists): services "webapp" already exists
root@ubuntu:/home/minikubeuser# kubectl expose deployment webapp --name=webapp-new --type=NodePort --port=80 --target-port=80
service/webapp-new exposed
root@ubuntu:/home/minikubeuser# kubectl get pods
NAME READY STATUS RESTARTS AGE
webapp-869b646d9f-2zmn5 1/1 Running 0 4m55s
root@ubuntu:/home/minikubeuser# kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 7m22s
webapp NodePort 10.99.251.89 <none> 80:30839/TCP 2m33s
webapp-new NodePort 10.110.6.50 <none> 80:32487/TCP 20s
root@ubuntu:/home/minikubeuser# kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 7m34s
webapp NodePort 10.99.251.89 <none> 80:30839/TCP 2m45s
webapp-new NodePort 10.110.6.50 <none> 80:32487/TCP 32s
root@ubuntu:/home/minikubeuser# kubectl get pods
NAME READY STATUS RESTARTS AGE
webapp-869b646d9f-2zmn5 1/1 Running 0 5m27s
root@ubuntu:/home/minikubeuser# kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
webapp 1/1 1 1 5m37s
root@ubuntu:/home/minikubeuser# minikube service webapp
-----|-----|-----|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|-----|-----|-----|
| default | webapp | 80 | http://192.168.49.2:30839 |
|-----|-----|-----|-----|
🔗 Opening service default/webapp in default browser...
/usr/bin/xdg-open: 882: www-browser: not found
/usr/bin/xdg-open: 882: links2: not found
/usr/bin/xdg-open: 882: elinks: not found
/usr/bin/xdg-open: 882: links: not found
/usr/bin/xdg-open: 882: lynx: not found
/usr/bin/xdg-open: 882: w3m: not found
xdg-open: no method available for opening 'http://192.168.49.2:30839'
```

