

MINIKUBE + KUBERNETES COMPLETE COMMAND LIST

1. Check kubectl version

```
kubectl version --client
```

2. Start Minikube

```
minikube start
```

3. Create Deployment

```
kubectl create deployment mynginx --image=nginx
```

4. Expose Deployment as a Service

```
kubectl expose deployment mynginx --type=NodePort --port=80 --target-port=80
```

5. Scale Deployment

```
kubectl scale deployment mynginx --replicas=4
```

6. Check Services (Incorrect command used first)

```
kubectl get service myngnix (wrong)
```

```
kubectl get service mynginx (correct)
```

7. Check All Services

```
kubectl get svc
```

8. Check NodePort Assigned

```
kubectl get service mynginx
```

9. Port-Forward Attempt (8081 blocked)

```
kubectl port-forward svc/mynginx 8081:80 (failed)
```

10. Check which process uses port 8081

```
netstat -ano | findstr :8081
```

11. Attempt to kill process (failed)

```
taskkill /PID 7704 /F
```

12. Wrong port-forward attempts

```
kubectrl port-forward svc/mynginx 8082:81
```

```
kubectrl port-forward svc/mynginx 8082:82
```

13. Successful port-forward using 9090

```
kubectrl port-forward svc/mynginx 9090:80
```

Access in browser: <http://localhost:9090>

BONUS USEFUL COMMANDS

- Open Minikube dashboard:

```
minikube dashboard
```

- View pods:

```
kubectrl get pods
```

- Describe pod:

```
kubectrl describe pod
```

- Get service external URL:

```
minikube service mynginx --url
```