

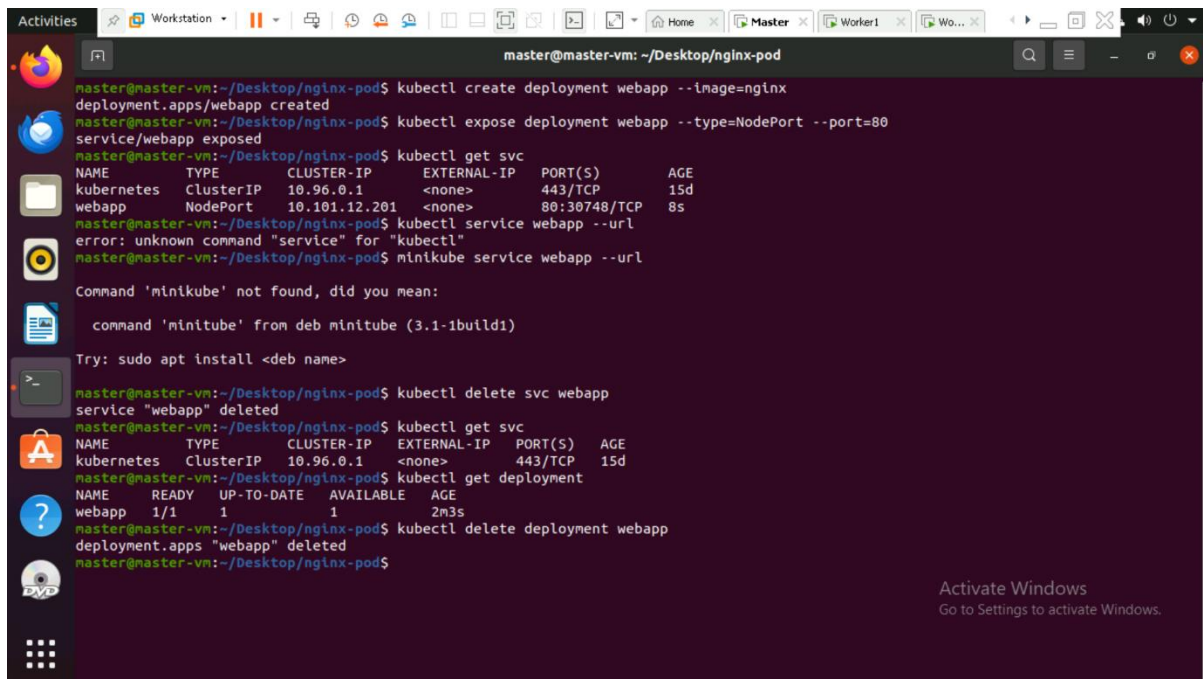
Q. Create and Use a Secret

```
master@master-vm: ~/Desktop/nginx-pod
master@master-vm:~/Desktop/nginx-pod$ kubectl create secret generic db-secret --from-literal=DB_USER=admin
secret/db-secret created
master@master-vm:~/Desktop/nginx-pod$ --from-literal=DB_PASS=password123: command not found
master@master-vm:~/Desktop/nginx-pod$ kubectl get secrets
NAME          TYPE          DATA      AGE
db-secret      Opaque        1          23s
docker-secret  kubernetes.io/dockerconfigjson 1      7h41m
master@master-vm:~/Desktop/nginx-pod$ kubectl delete secret db-secret
secret "db-secret" deleted
master@master-vm:~/Desktop/nginx-pod$ kubectl get secrets
NAME          TYPE          DATA      AGE
docker-secret  kubernetes.io/dockerconfigjson 1      7h41m
master@master-vm:~/Desktop/nginx-pod$ kubectl create secret generic db-secret --from-literal=DB_USER=admin --from-literal=DB_PASS=password123
secret/db-secret created
master@master-vm:~/Desktop/nginx-pod$ kubectl get secrets
NAME          TYPE          DATA      AGE
db-secret      Opaque        2          3s
docker-secret  kubernetes.io/dockerconfigjson 1      7h42m
master@master-vm:~/Desktop/nginx-pod$ kubectl describe secrets db-secret
Name:         db-secret
Namespace:    default
Labels:       <none>
Annotations:  <none>
Type:         Opaque

Data
====
DB_PASS: 11 bytes
DB_USER: 5 bytes
master@master-vm:~/Desktop/nginx-pod$ nano nginx-secret-pod.yaml
master@master-vm:~/Desktop/nginx-pod$ kubectl apply -f nginx-secret-pod.yaml
pod/nginx-secret-pod created
master@master-vm:~/Desktop/nginx-pod$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-secret-pod 1/1     Running   0          5s
master@master-vm:~/Desktop/nginx-pod$ kubectl logs nginx-secret-pod
error: unknown command "logs" for "kubectl"

Did you mean this?
logs
master@master-vm:~/Desktop/nginx-pod$ kubectl logs nginx-secret-pod
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/03/13 12:06:17 [notice] 1#1: using the "epoll" event method
2025/03/13 12:06:17 [notice] 1#1: nginx/1.27.4
2025/03/13 12:06:17 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/03/13 12:06:17 [notice] 1#1: OS: Linux 5.15.0-131-generic
2025/03/13 12:06:17 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/03/13 12:06:17 [notice] 1#1: start worker processes
2025/03/13 12:06:17 [notice] 1#1: start worker process 29
2025/03/13 12:06:17 [notice] 1#1: start worker process 30
master@master-vm:~/Desktop/nginx-pod$ kubectl delete -f nginx-secret-pod.yaml
pod "nginx-secret-pod" deleted
master@master-vm:~/Desktop/nginx-pod$ kubectl delete secret db-secret
secret "db-secret" deleted
master@master-vm:~/Desktop/nginx-pod$
```

Q. Create and Expose a Service



```
master@master-vm: ~/Desktop/nginx-pod
master@master-vm:~/Desktop/nginx-pod$ kubectl create deployment webapp --image=nginx
deployment.apps/webapp created
master@master-vm:~/Desktop/nginx-pod$ kubectl expose deployment webapp --type=NodePort --port=80
service/webapp exposed
master@master-vm:~/Desktop/nginx-pod$ kubectl get svc
NAME      TYPE          CLUSTER-IP   EXTERNAL-IP   PORT(S)          AGE
kubernetes ClusterIP   10.96.0.1     <none>        443/TCP          15d
webapp    NodePort      10.101.12.201 <none>        80:30748/TCP     8s
master@master-vm:~/Desktop/nginx-pod$ kubectl service webapp --url
error: unknown command "service" for "kubectl"
master@master-vm:~/Desktop/nginx-pod$ minikube service webapp --url
Command 'minikube' not found, did you mean:
  command 'minitube' from deb minitube (3.1-1build1)
Try: sudo apt install <deb name>
master@master-vm:~/Desktop/nginx-pod$ kubectl delete svc webapp
service "webapp" deleted
master@master-vm:~/Desktop/nginx-pod$ kubectl get svc
NAME      TYPE          CLUSTER-IP   EXTERNAL-IP   PORT(S)          AGE
kubernetes ClusterIP   10.96.0.1     <none>        443/TCP          15d
master@master-vm:~/Desktop/nginx-pod$ kubectl get deployment
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
webapp    1/1     1            1           2m3s
master@master-vm:~/Desktop/nginx-pod$ kubectl delete deployment webapp
deployment.apps "webapp" deleted
master@master-vm:~/Desktop/nginx-pod$
```

Activate Windows
Go to Settings to activate Windows.