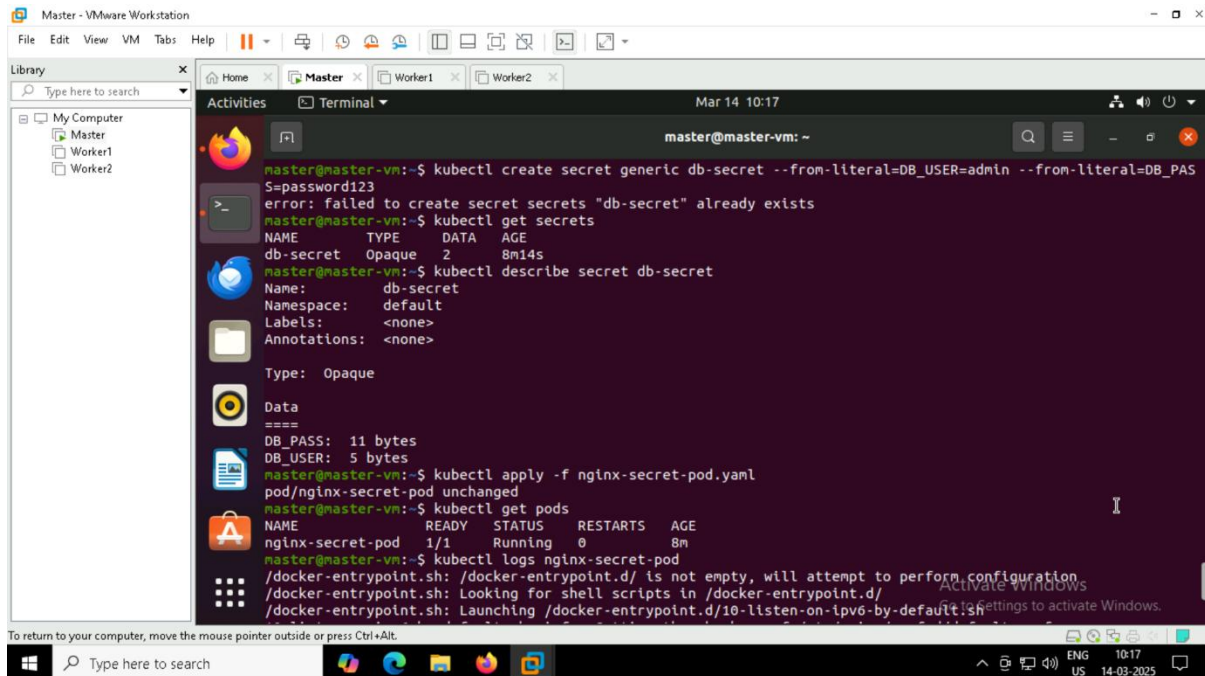


KUBERNETES ASSIGNMENTS 3

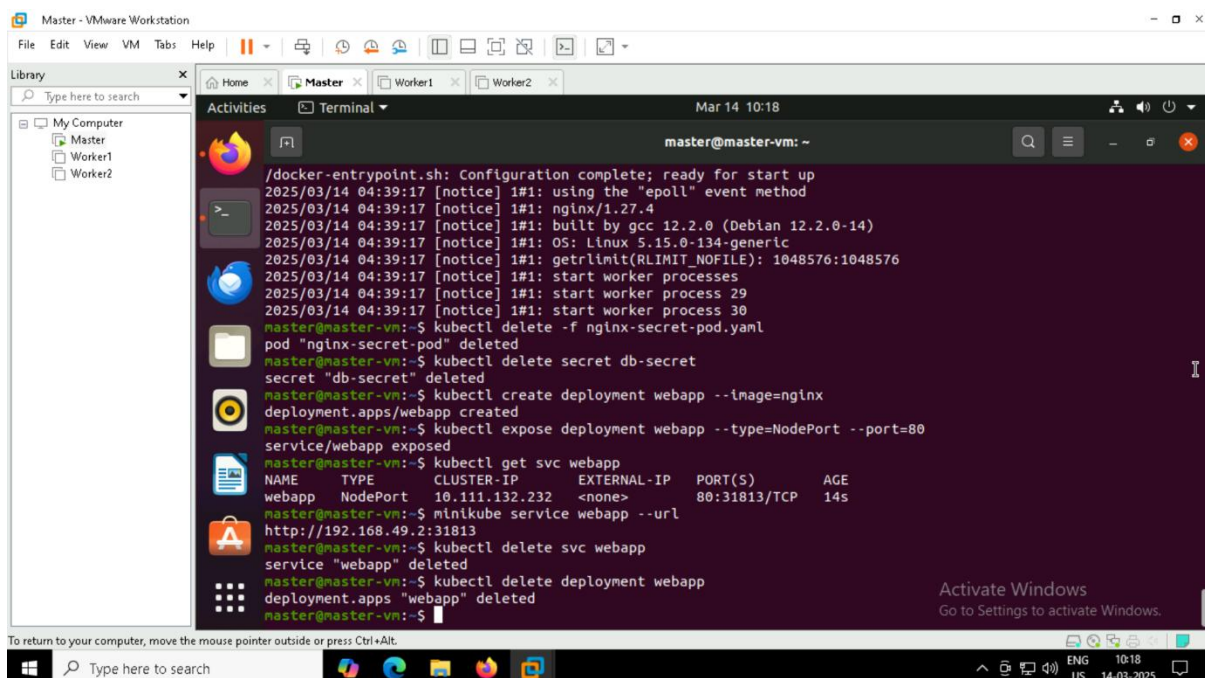
Exercise 5: Create and Use a Secret



The screenshot shows a terminal window titled "master@master-vm: ~" with the following commands and output:

```
master@master-vm:~$ kubectl create secret generic db-secret --from-literal=DB_USER=admin --from-literal=DB_PASS=password123
error: failed to create secret secrets "db-secret" already exists
master@master-vm:~$ kubectl get secrets
NAME      TYPE      DATA      AGE
db-secret  Opaque    2          8m14s
master@master-vm:~$ kubectl describe secret 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:~$ kubectl apply -f nginx-secret-pod.yaml
pod/nginx-secret-pod unchanged
master@master-vm:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-secret-pod 1/1     Running   0          8m
master@master-vm:~$ 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
```

Exercise 6: Create and Expose a Service



The screenshot shows a terminal window titled "master@master-vm: ~" with the following commands and output:

```
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/03/14 04:39:17 [notice] 1#1: using the "epoll" event method
2025/03/14 04:39:17 [notice] 1#1: nginx/1.27.4
2025/03/14 04:39:17 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/03/14 04:39:17 [notice] 1#1: OS: Linux 5.15.0-134-generic
2025/03/14 04:39:17 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/03/14 04:39:17 [notice] 1#1: start worker processes
2025/03/14 04:39:17 [notice] 1#1: start worker process 29
2025/03/14 04:39:17 [notice] 1#1: start worker process 30
master@master-vm:~$ kubectl delete -f nginx-secret-pod.yaml
pod "nginx-secret-pod" deleted
master@master-vm:~$ kubectl delete secret db-secret
secret "db-secret" deleted
master@master-vm:~$ kubectl create deployment webapp --image=nginx
deployment.apps/webapp created
master@master-vm:~$ kubectl expose deployment webapp --type=NodePort --port=80
service/webapp exposed
master@master-vm:~$ kubectl get svc webapp
NAME      TYPE        CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
webapp    NodePort    10.111.132.232   <none>            80:31813/TCP     14s
master@master-vm:~$ minikube service webapp --url
http://192.168.49.2:31813
master@master-vm:~$ kubectl delete svc webapp
service "webapp" deleted
master@master-vm:~$ kubectl delete deployment webapp
deployment.apps "webapp" deleted
master@master-vm:~$
```

