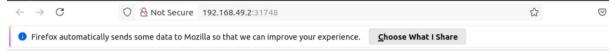
## **Kubernetes Assignment – 3**

## 1. Create and use a Secret

```
master@master-vm:~/Desktop$ nano nginx-secret-pod.yaml
master@master-vm:~/Desktop$ kubectl apply -f nginx-secret-pod.yaml
pod/nginx-secret-pod created
 master@master-vm:~/Desktop$ kubectl get pods
                                     READY
                                                     STATUS
                                                                           RESTARTS
                                                                                                            AGE
                                     1/1
nginx-pod
                                                                            1 (4m26s ago)
                                                     Running
                                                                                                            18h
                                                                           0
0
nginx-secret-pod
                                     1/1
                                                     Running
                                                                                                            20s
nginxpod
                                     0/1
                                                     Completed
                                                                                                            18h
 master@master-vm:~/Desktop$ 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: Launching /docker-entrypoint.d/30-tune-worker-pro//docker-entrypoint.sh: Configuration complete; ready for start up 2025/03/14 04:35:54 [notice] 1#1: using the "epoll" event method 2025/03/14 04:35:54 [notice] 1#1: nginx/1.27.4 2025/03/14 04:35:54 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14) 2025/03/14 04:35:54 [notice] 1#1: 05: Linux 5.15.0-134-generic
2025/03/14 04:35:54 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/03/14 04:35:54 [notice] 1#1: start worker processes
2025/03/14 04:35:54 [notice] 1#1: start worker process 29
2025/03/14 04:35:54 [notice] 1#1: start worker process 30
master@master-vm:~/Desktop$ kubectl delete -f nginx-secret-pod.yaml
pod "nginx-secret-pod" deleted
 master@master-vm:~/Desktop$ kubectl delete secret db-secret
secret "db-secret" deleted
master@master-vm:~/Desktop$
```

## 2. Create and expose a Service

```
master@master-vm:~/Desktop$ kubectl create deployment webapp --image=nginx
deployment.apps/webapp created
master@master-vm:~/Desktop$ kubectl expose deployment webapp --type=NodePort --port=80
service/webapp exposed
master@master-vm:~/Desktop$ kubectl get svc webapp
        TYPE
                   CLUSTER-IP
                                    EXTERNAL-IP
                                                 PORT(S)
NAME
                                                                 AGE
        NodePort 10.106.23.128
                                                  80:31391/TCP
webapp
                                   <none>
                                                                 145
     @master-vm:~/Desktop$ minikube service webapp --url
http://192.168.49.2:31391
master@master-vm:~/Desktop$ kubectl delete svc webapp
service "webapp" deleted
master@master-vm:~/Desktop$ kubectl delete deployment webapp
deployment.apps "webapp" del¶ted
master@master-vm:~/Desktop$
```



## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.