

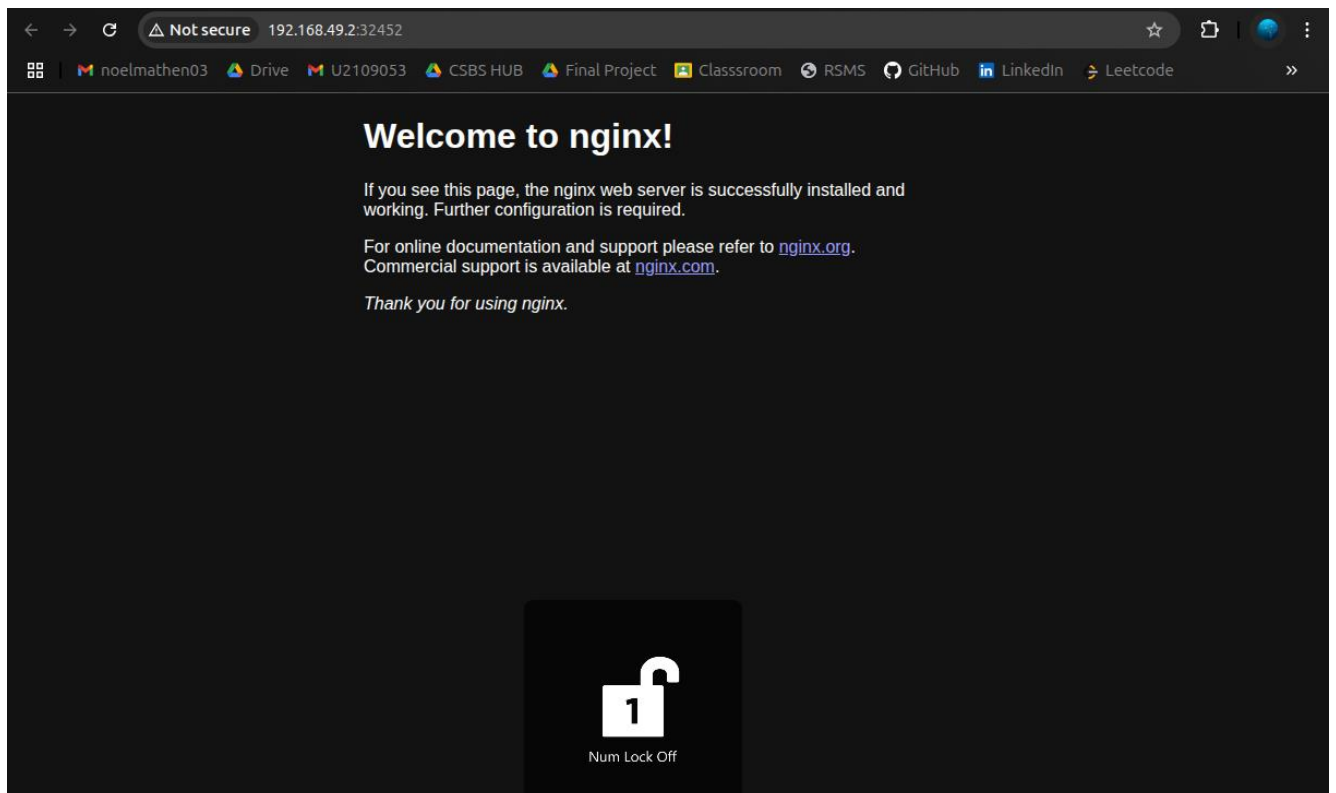
```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

noelmathen@noelmathen-VirtualBox: ~
commit: f8f52f5de11fc6ad8244afac475e1d0f96841df1-dirty
noelmathen@noelmathen-VirtualBox:~$ minikube start --driver=docker
minikube v1.36.0 on Ubuntu 24.04 (vbox/amd64)
Using the docker driver based on user configuration
Using Docker driver with root privileges
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.47 ...
Downloading Kubernetes v1.33.1 preload ...
> gcr.io/k8s-minikube/kicbase...: 176.35 MiB / 5 > preloaded-images-k8s-v18-v1...
...: 27.11 MiB / 34 > gcr.io/k8s-minikube/kicbase...: 179.14 MiB / 5 > preloaded
-images-k8s-v18-v1...: 27.64 MiB / 34 > gcr.io/k8s-minikube/kicbase...: 180.60 MiB
/ 5 > preloaded-images-k8s-v18-v1...: 28.08 MiB / 34 > gcr.io/k8s-minikube/kicb
ase...: 181.96 MiB / 5 > preloaded-images-k8s-v18-v1...: 28.51 MiB / 34 > gcr.i
o/k8s-minikube/kicbase...: 184.01 MiB / 5 > preloaded-images-k8s-v18-v1...: 28.83
MiB / 34 > gcr.io/k8s-minikube/kicbase...: 184.95 MiB / 5 > preloaded-images-k8s
-v18-v1...: 29.17 MiB / 34 > gcr.io/k8s-minikube/kicbase...: 187.29 MiB / 5 > p
reloaded-images-k8s-v18-v1...: 29.39 MiB / 34 > gcr.io/k8s-minikube/kicbase...: 18
8.64 MiB / 5 > preloaded-images-k8s-v18-v1...: 29.64 MiB / 34 > gcr.io/k8s-minik
ube/kicbase...: 189.39 MiB / 5 > preloaded-images-k8s-v18-v1...: 29.80 MiB / 34
> gcr.io/k8s-minikube/kicbase...: 192.25 MiB / 5 > preloaded-images-k8s-v18-v1...:
29.98 MiB / 34 > gcr.io/k8s-minikube/kicbase...: 193.73 MiB / 5 > preloaded-im
ages-k8s-v18-v1...: 30.17 MiB / 34 > gcr.io/k8s-minikube/kicbase...: 195.45 MiB /
5 > preloaded-images-k8s-v18-v1...: 30.33 MiB / 34 > gcr.io/k8s-minikube/kicbase
...: 197.60 MiB / 5 > preloaded-images-k8s-v18-v1...: 30.55 MiB / 34 > gcr.io/k
8s-minikube/kicbase...: 198.84 MiB / 5 > preloaded-images-k8s-v18-v1...: 30.89 MiB
/ 34 > gcr.io/k8s-minikube/kicbase...: 201.25 MiB / 5 > preloaded-images-k8s-v1
```

```
noelmathen@noelmathen-VirtualBox: ~
> preloaded-images-k8s-v18-v1...: 338.17 MiB / 347.04 MiB 97.45% > preloaded-image
s-k8s-v18-v1...: 339.86 MiB / 347.04 MiB 97.93% > preloaded-images-k8s-v18-v1...:
341.86 MiB / 347.04 MiB 98.51% > preloaded-images-k8s-v18-v1...: 343.23 MiB / 347
.04 MiB 98.90% > preloaded-images-k8s-v18-v1...: 344.42 MiB / 347.04 MiB 99.25%
> preloaded-images-k8s-v18-v1...: 345.45 MiB / 347.04 MiB 99.54% > preloaded-ima
ges-k8s-v18-v1...: 346.39 MiB / 347.04 MiB 99.81% > preloaded-images-k8s-v18-v1...
: 346.86 MiB / 347.04 MiB 99.95% > preloaded-images-k8s-v18-v1...: 347.04 MiB / 3
47.04 MiB 100.00% 3.05 Mi

kubectl get nodes
🔥 Creating docker container (CPUs=2, Memory=2200MB) ...
🐳 Preparing Kubernetes v1.33.1 on Docker 28.1.1 ...
  ■ 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 b
y default
noelmathen@noelmathen-VirtualBox:~$
noelmathen@noelmathen-VirtualBox:~$ kubectl get nodes
NAME          STATUS    ROLES          AGE    VERSION
minikube      Ready    control-plane  21s    v1.33.1
noelmathen@noelmathen-VirtualBox:~$
```

```
noelmathen@noelmathen-VirtualBox: ~  
noelmathen@noelmathen-VirtualBox:~$ kubectl create deployment hello-nginx --image=nginx  
error: failed to create deployment: deployments.apps "hello-nginx" already exists  
noelmathen@noelmathen-VirtualBox:~$ kubectl expose deployment hello-nginx --type=NodePort --port=80  
Error from server (AlreadyExists): services "hello-nginx" already exists  
noelmathen@noelmathen-VirtualBox:~$ minikube service hello-nginx --url  
http://192.168.49.2:32452  
noelmathen@noelmathen-VirtualBox:~$
```



```
noelmathen@noelmathen-VirtualBox:~$ minikube dashboard
🔧 Enabling dashboard ...
  ■ Using image docker.io/kubernetesui/dashboard:v2.7.0
  ■ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
💡 Some dashboard features require the metrics-server addon. To enable all features please run:

    minikube addons enable metrics-server

😄 Verifying dashboard health ...
🚀 Launching proxy ...
😄 Verifying proxy health ...
🌐 Opening http://127.0.0.1:34675/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
Opening in existing browser session.
```

