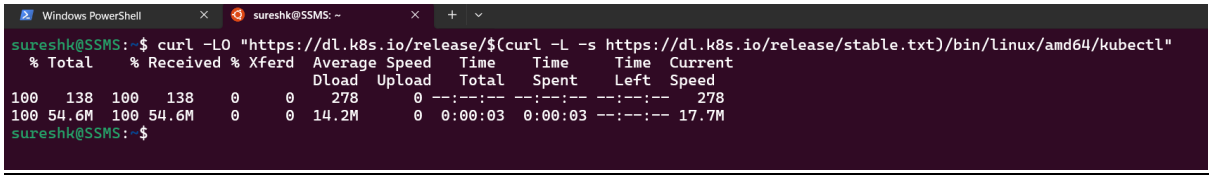
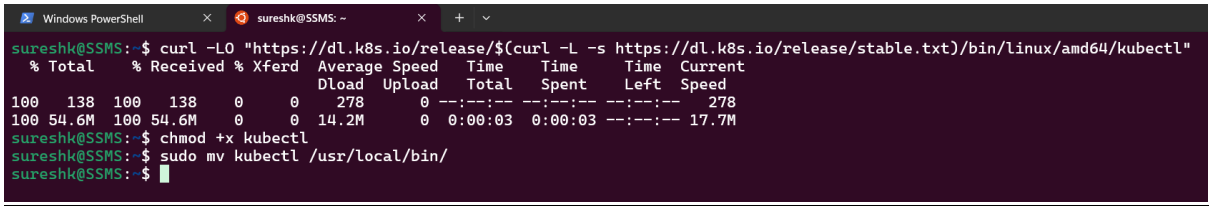
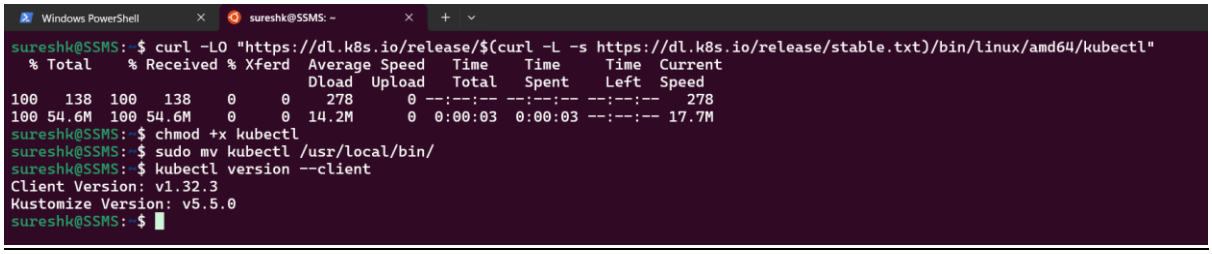
Kubernetes Task

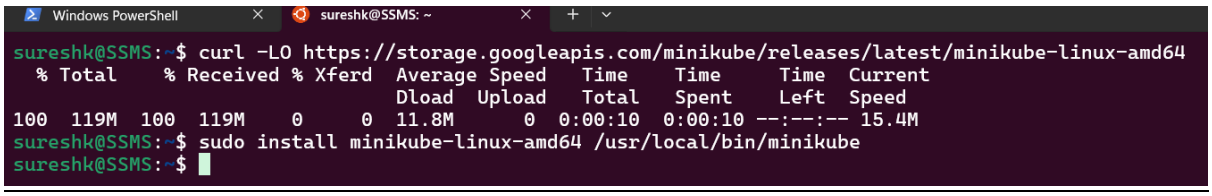
Installing Kubectl:



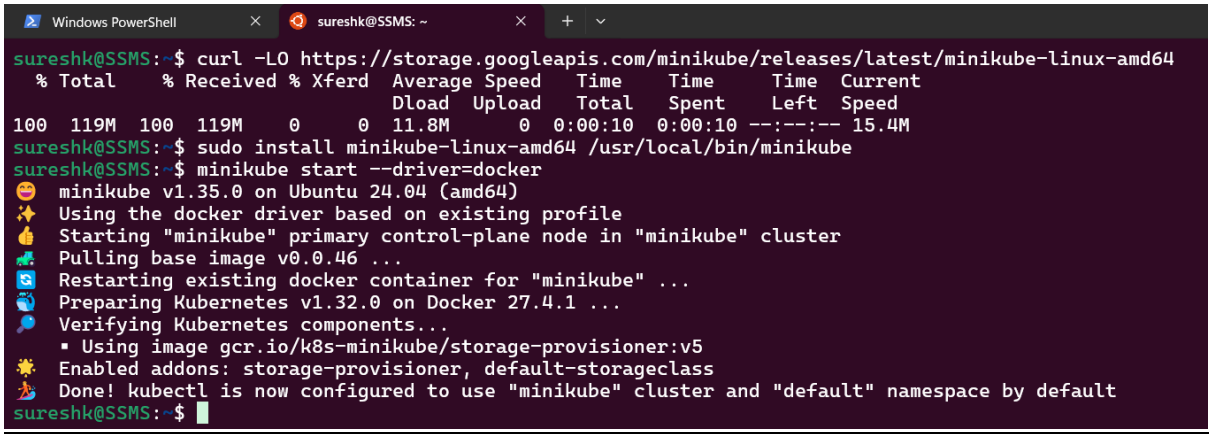




Install and Start Minikube:



Starting Minikube Using Docker:

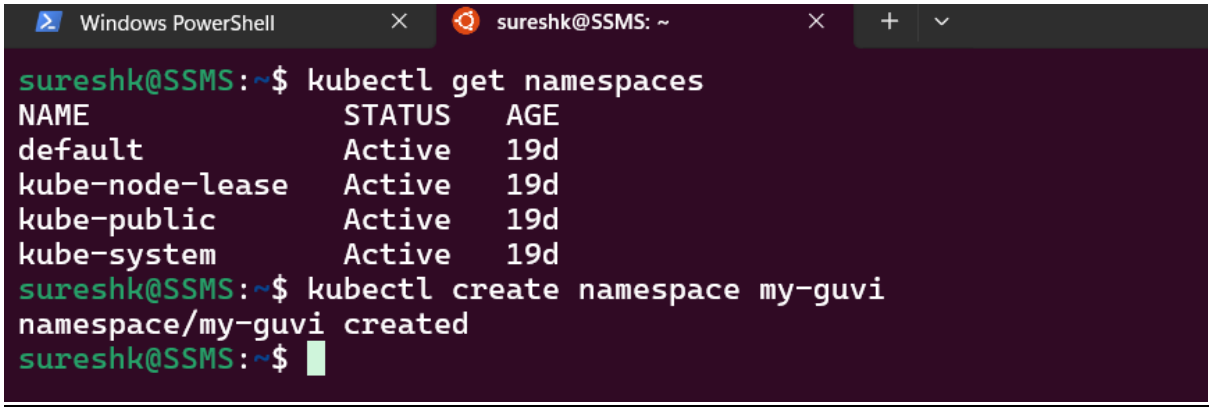


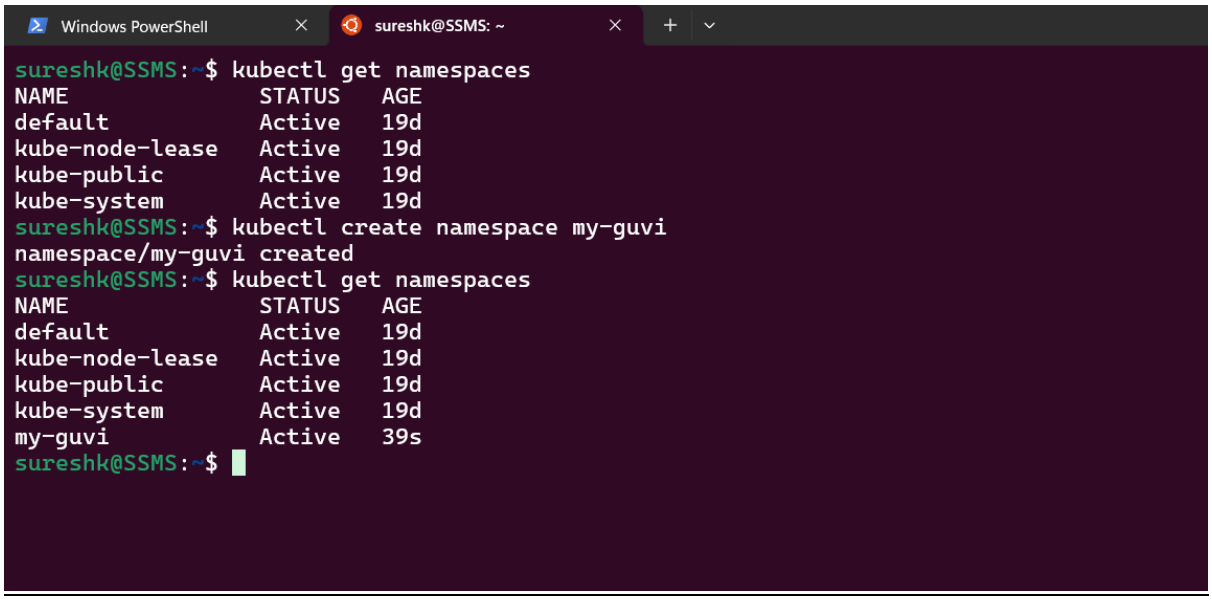
```
Windows PowerShell   sureshk@SSMS: ~
sureshk@SSMS:~$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  119M  100  119M    0     0  11.8M      0  0:00:10  0:00:10 --:--:-- 15.4M
sureshk@SSMS:~$ sudo install minikube-linux-amd64 /usr/local/bin/minikube
sureshk@SSMS:~$ minikube start --driver=docker
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Using the docker driver based on existing profile
👍  Starting "minikube" primary control-plane node in "minikube" cluster
🚜  Pulling base image v0.0.46 ...
🔄  Restarting existing docker container for "minikube" ...
🐳  Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔎  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 by default
sureshk@SSMS:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

sureshk@SSMS:~$
```

```
Windows PowerShell   sureshk@SSMS: ~
sureshk@SSMS:~$ kubectl get nodes
NAME       STATUS   ROLES           AGE   VERSION
minikube   Ready    control-plane   19d   v1.32.0
sureshk@SSMS:~$
```

Creating Namespace:

```
sureshk@SSMS:~$ kubectl get namespaces
NAME              STATUS   AGE
default           Active   19d
kube-node-lease   Active   19d
kube-public       Active   19d
kube-system       Active   19d
sureshk@SSMS:~$
```





Deploying sample pod in the new namespace: