```
sandhiya@ITP-CC16-03: ~/.ku × + ×
sandhiya@ITP-CC16-03:**$ sudo systemctl start ssh
sandhiya@ITP-CC16-03:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh
Created symlink /etc/systemd/system/sshd.service → /usr/lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /usr/lib/systemd/system/ssh.service.
sandhiya@ITP-CC16-03:~$ systemctl status ssh

    ssh.service - OpenBSD Secure Shell server

     Loaded: loaded (/usr/lib/system/system/ssh.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-03-21 08:28:17 UTC; 23s ago
TriggeredBy: • ssh.socket
       Docs: man:sshd(8)
             man:sshd_config(5)
   Main PID: 7854 (sshd)
      Tasks: 1 (limit: 4572)
     Memory: 1.2M ()
     CGroup: /system.slice/ssh.service
              └─7854 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Mar 21 08:28:17 ITP-CC16-03 systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Mar 21 08:28:17 ITP-CC16-03 sshd[7854]: Server listening on :: port 22.
Mar 21 08:28:17 ITP-CC16-03 systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
sandhiya@ITP-CC16-03:~$ sudo systemctl restart ssh
sandhiya@ITP-CC16-03:~$ sudo systemctl restart ssh.service
sandhiya@ITP-CC16-03:~$ sudo systemctl restart sshd.service
sandhiya@ITP-CC16-03:~$ ls
minikube-linux-amd64
sandhiya@ITP-CC16-03:~$ sudo systemctl daemon-reload
sandhiya@ITP-CC16-03:~$ sudo systemctl status ssh

    ssh.service - OpenBSD Secure Shell server

     Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-03-21 08:29:41 UTC; 5min ago
TriggeredBy: • ssh.socket
       Docs: man:sshd(8)
             man:sshd_config(5)
   Main PID: 8289 (sshd)
     Tasks: 1 (limit: 4572)
     Memory: 1.2M ()
     CGroup: /system.slice/ssh.service
               -8289 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Mar 21 08:29:41 ITP-CC16-03 systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
```

```
sandhiya@ITP-CC16-03: ~/.ku × + ×
sandhiya@ITP-CC16-03:~/.kube$ kubectl get node
Command 'kubectl' not found, but can be installed with:
sudo snap install kubectl
sandhiya@ITP-CC16-03:~/.kube$ sudo snap install kubectl
error: This revision of snap "kubectl" was published using classic confinement and thus may perform
       arbitrary system changes outside of the security sandbox that snaps are usually confined to,
       which may put your system at risk.
       If you understand and want to proceed repeat the command including --classic.
sandhiya@ITP-CC16-03:~/.kube$ chmod +x kubectl
mkdir -p ~/.local/bin
mv ./kubectl ~/.local/bin/kubectl
chmod: cannot access 'kubectl': No such file or directory
mv: cannot stat './kubectl': No such file or directory
sandhiya@ITP-CC16-03:~/.kube$ cd ..
sandhiya@ITP-CC16-03:~$ chmod +x kubectl
mkdir -p ~/.local/bin
mv ./kubectl ~/.local/bin/kubectl
chmod: cannot access 'kubectl': No such file or directory
mv: cannot stat './kubectl': No such file or directory
sandhiya@ITP-CC16-03:~$ curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
                                                                   Time Current
Left Speed
  % Total
             % Received % Xferd Average Speed
                                                  Time
                                                          Time
                                  Dload Upload
                                                  Total
                                                          Spent
100 138 100 138
                        Θ
                                  216
                                             0 --:---
                                                                            216
                               0
100 54.6M 100 54.6M
                               0 1414k
                                             0 0:00:39 0:00:39 --:-- 1374k
                        Θ
sandhiya@ITP-CC16-03:~$ chmod +x kubectl
mkdir -p ~/.local/bin
mv ./kubectl ~/.local/bin/kubectl
sandhiya@ITP-CC16-03:~$ kubectl get node
           STATUS ROLES
                                           VERSION
                    control-plane
minikube
           Ready
                                     40m
                                           v1.32.0
sandhiya@ITP-CC16-03:~$ cd ~/.kube
sandhiya@ITP-CC16-03:~/.kube$ kubectl get node
           STATUS ROLES
                                           VERSION
                                     AGE
minikube Ready
                    control-plane
                                     44m
                                           v1.32.0
sandhiya@ITP-CC16-03:~/.kube$
```

```
Eniding dependency tree... Done
Reading state information... Done
Se packages can be upgraded. Run 'apt list --upgradable' to see them.
sandhiyagHT-CLG-03:-S sudo apt install -y docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Reading state information..
```

```
sandhiya@ITP-CC16-03: ~/.ku X
 Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for dbus (1.14.10-4ubuntu4.1) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Processing triggers for tibc-bin (2.39-Bubuntu8.4) ...
sandhiya@ITP-CC16-03:-$ sudo systemctl enable --now docker
sandhiya@ITP-CC16-03:-$ sudo usermod -aG docker $USER
sandhiya@ITP-CC16-03:-$ newgrp docker
sandhiya@ITP-CC16-03:-$ docker run hello-world
Unable to find image 'hello-world:latest' locally latest: Pulling from library/hello-world e6590344b1a5: Pull complete
Digest: sha256:7elade2d1le2ac7a8c3f768d4166c2defeb09d2a750b0l0412b6ea13delefb19 Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
  2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
       (amd64)
       The Docker daemon created a new container from that image which runs the
  executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
       to your terminal.
To try something more ambitious, you can run an Ubuntu container with: \mbox{$\mbox{$}$ docker run -it ubuntu bash}
Share images, automate workflows, and more with a free Docker ID: https://hub.docker.com/
 For more examples and ideas, visit:
  https://docs.docker.com/get-started/
              @ITP-CC16-03:<mark>~$ minikube start</mark> -
     minikube v1.35.0 on Ubuntu 24.04 (amd64)
Using the docker driver based on user configuration
 0 *
      Using Docker driver based on user configuration
Using Docker driver with root privileges
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Downloading Kubernetes v1.32.0 preload ...
       > preloaded-images-k8s-v18-v1...: 333.57 MiB / 333.57 MiB 100.00% 4.22 Mi
```

```
sandhiya@ITP-CC16-03: ~/.ku ×
Provisioning the new WSL instance Ubuntu
This might take a while...
Create a default Unix user account: Sandhiya
Invalid username. A valid username must start with a lowercase letter or underscore, and can contain lowercase letters, digits
Create a default Unix user account: sandhiya
New password:
Retype new password:
passwd: password updated successfully
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)
* Documentation: https://help.ubuntu.com
 * Management:
                    https://landscape.canonical.com
 * Support:
                    https://ubuntu.com/pro
System information as of Fri Mar 21 08:09:56 UTC 2025
  System load: 0.07
                                       Processes:
                                                                 31
 Usage of /: 0.1% of 1006.85GB
                                       Users logged in:
 Memory usage: 19%
                                       IPv4 address for eth0: 192.168.224.138
  Swap usage: 0%
This message is shown once a day. To disable it please create the
/home/sandhiya/.hushlogin file.
sandhiya@ITP-CC16-03:~$ sudo apt update
[sudo] password for sandhiya:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [671 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Ign:6 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages
Get:7 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [130 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8960 B]
Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [6936 B]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [820 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
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