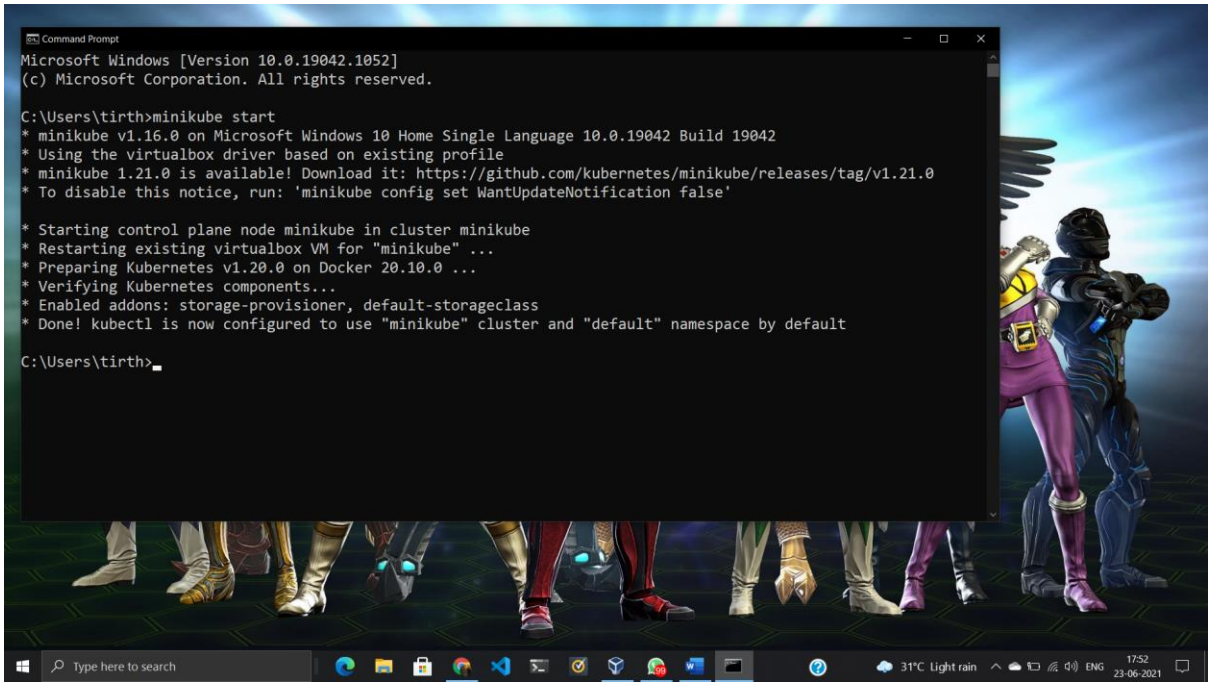
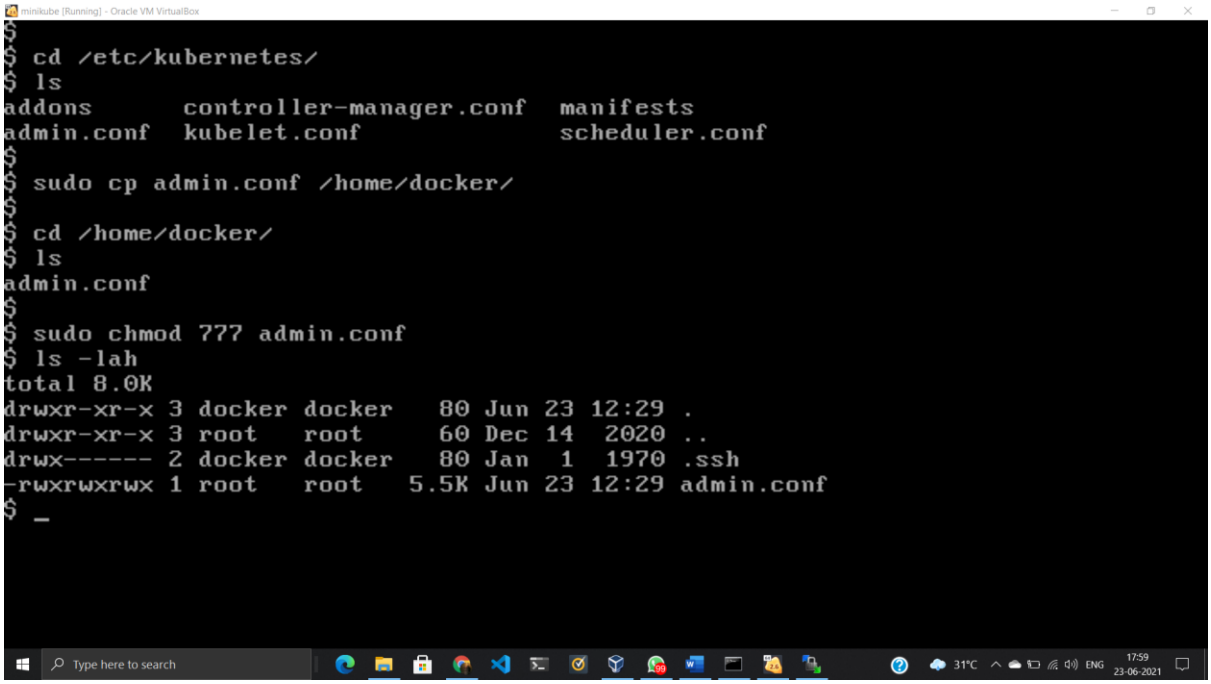


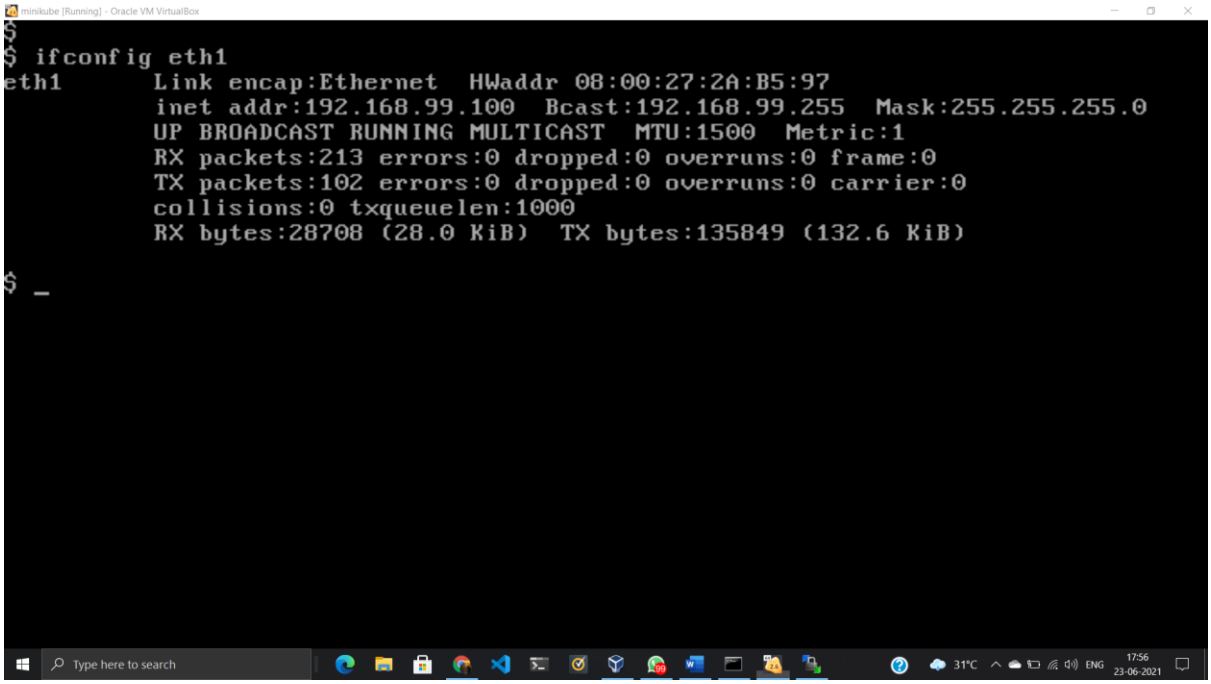
Login to Minikube VM.

User Name: **docker**

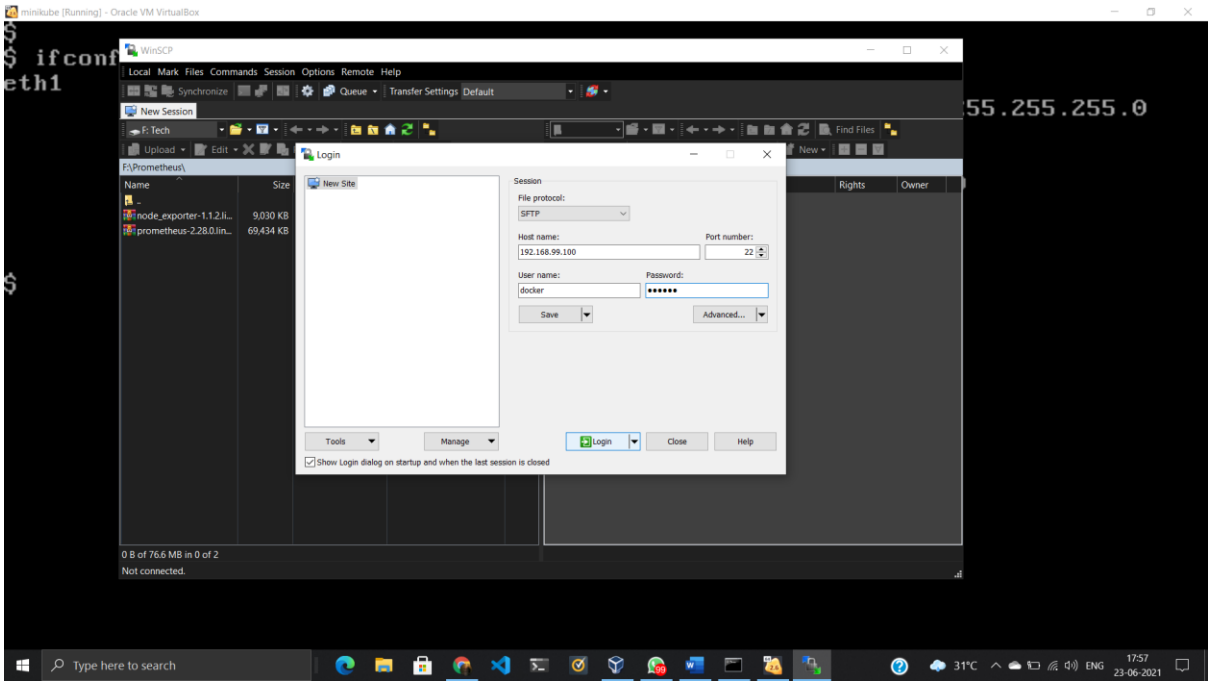
Password: **tcuser**

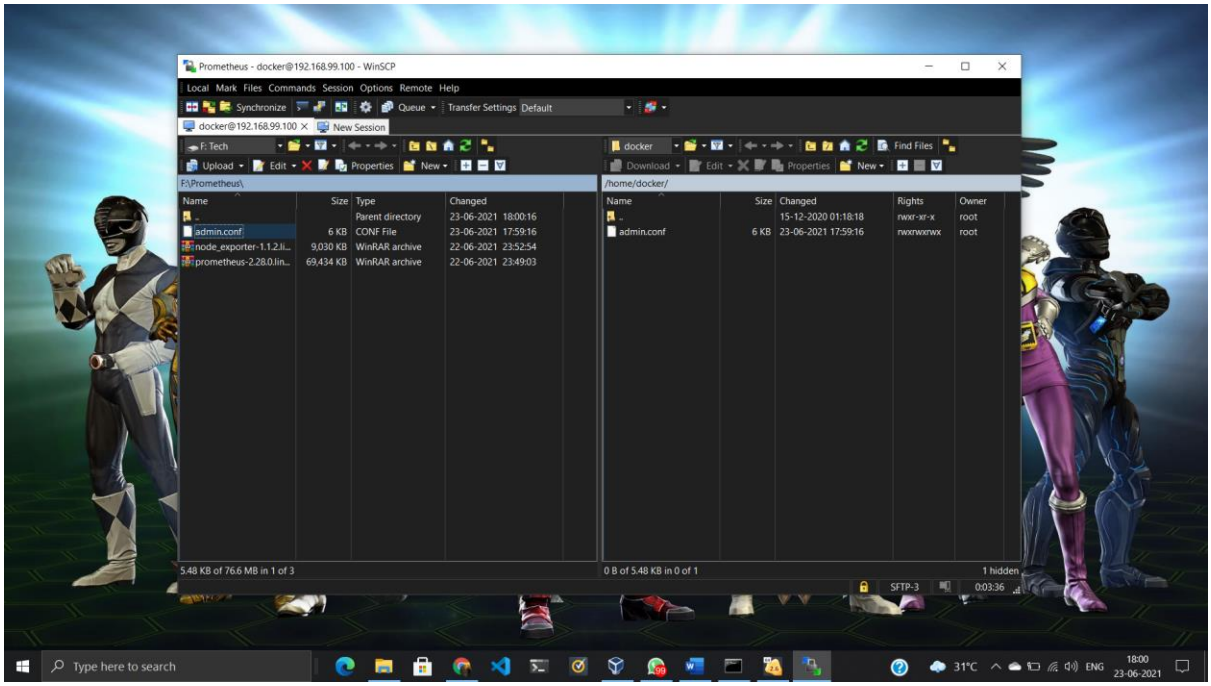


We change the permissions of admin.conf file so that we can copy this file from here to Windows Machine. And afterwards we need to transfer this file to RHEL8 VM.

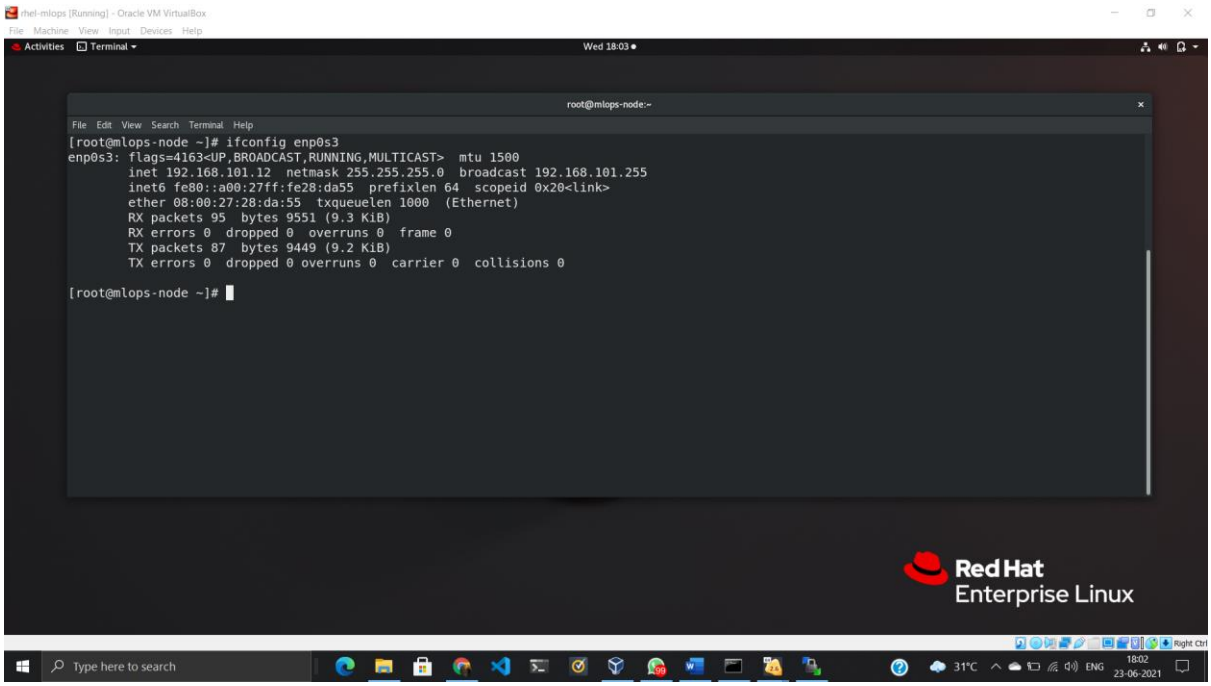


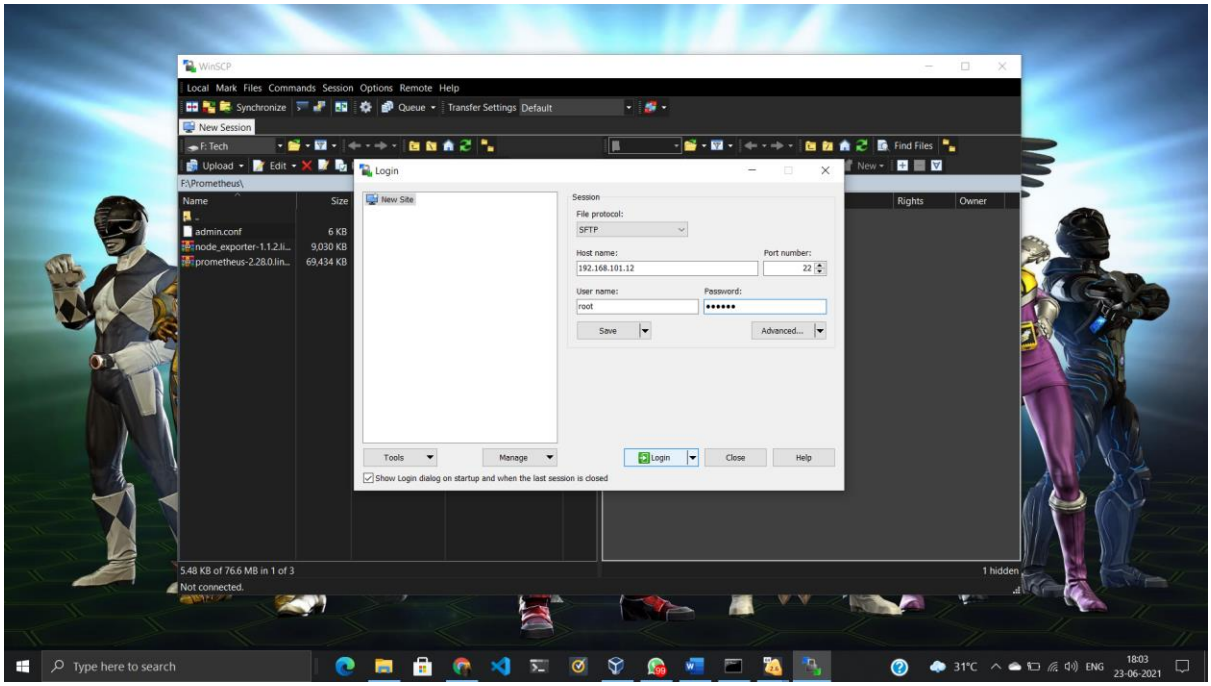
Using WinScp we can transfer file from remote machines or VM's.

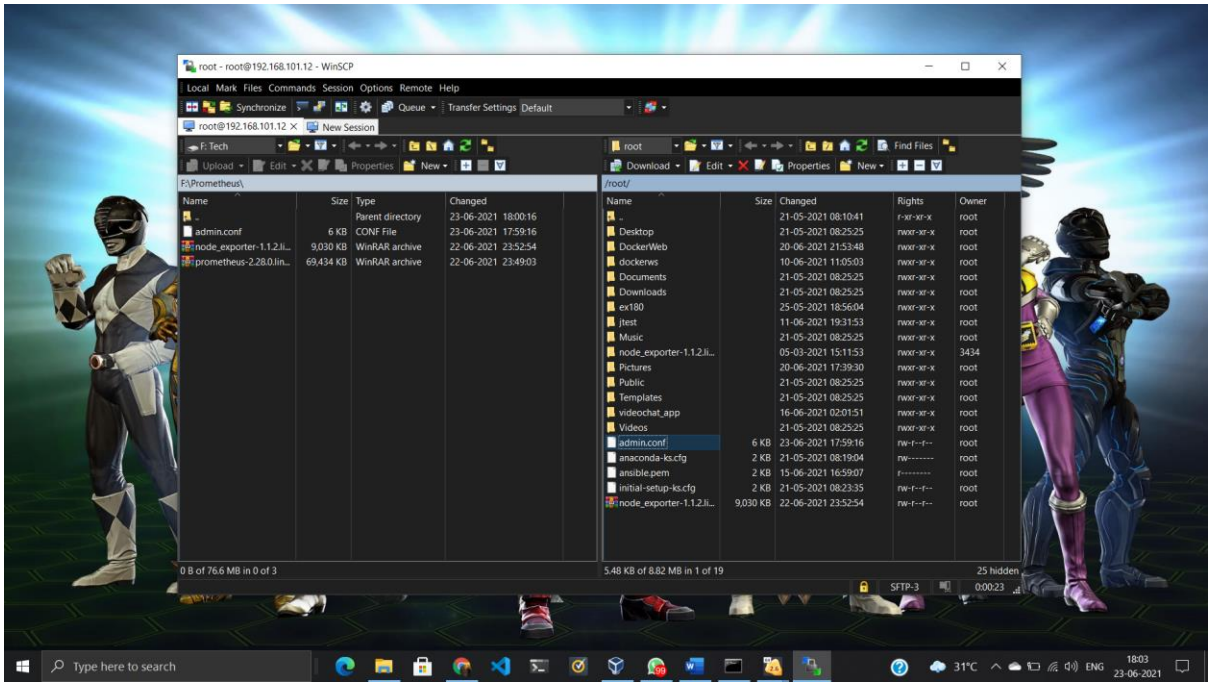


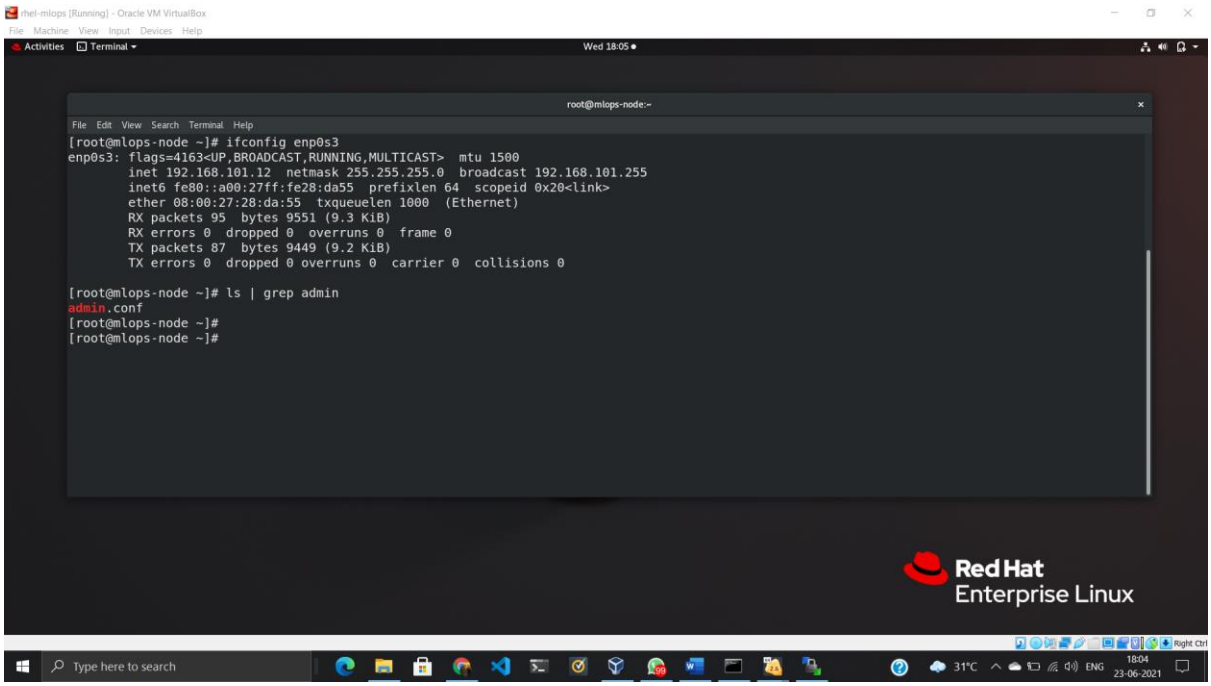


Launch the RHEL8 VM. Check the IP Address of system and again using WinSCP we can transfer admin.conf file from Windows to here i.e RHEL8 VM.




WinSCP
Local Mark Files Commands Session Options Remote Help
Synchronize
Queue
Transfer Settings Default
New Session
F: Tech
Upload
Edit
Find Files
F:\Prometheus\
Name
Size
admin.conf
6 KB
node_exporter-1.1.2.li...
9,030 KB
prometheus-2.28.0.lin...
69,434 KB
Rights
Owner
Login
New Site
Session
File protocol:
SFTP
Host name:
192.168.101.12
Port number:
22
User name:
root
Password:
Save
Advanced...
Tools
Manage
Login
Close
Help
Show Login dialog on startup and when the last session is closed
5.48 KB of 76.6 MB in 1 of 3
1 hidden
Not connected.
Type here to search
31°C
ENG
18:03
23-06-2021

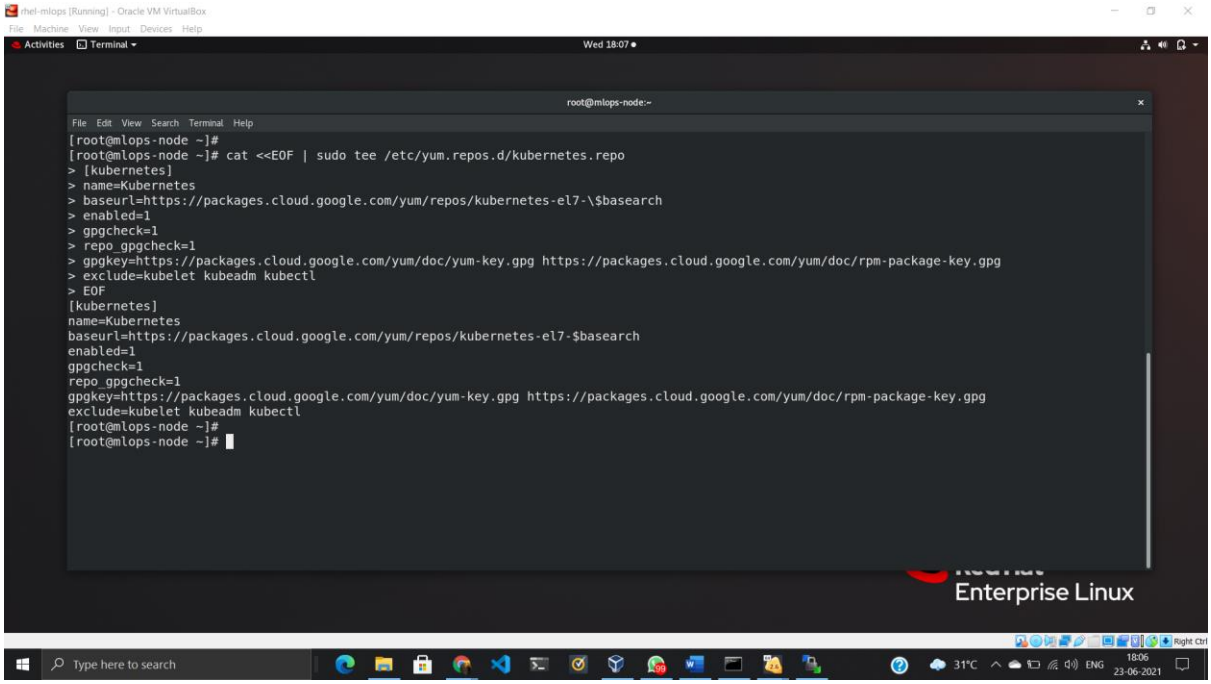

root - root@192.168.101.12 - WinSCP
Local Mark Files Commands Session Options Remote Help
Synchronize
Queue
Transfer Settings Default
root@192.168.101.12
New Session
F: Tech
Upload
Edit
Properties
New
F:\Prometheus\
Name
Size
Type
Changed
Parent directory
23-06-2021 18:00:16
admin.conf
6 KB
CONF File
23-06-2021 17:59:16
node_exporter-1.1.2.li...
9,030 KB
WinRAR archive
22-06-2021 23:52:54
prometheus-2.28.0.lin...
69,434 KB
WinRAR archive
22-06-2021 23:49:03
root
Download
Edit
Properties
New
Find Files
/root/
Rights
Owner
Desktop
DockerWeb
dockerws
Documents
Downloads
ex180
jtest
Music
node_exporter-1.1.2.li...
Pictures
Public
Templates
videochat_app
Videos
admin.conf
6 KB
anaconda-ks.cfg
2 KB
ansible.pem
2 KB
initial-setup-ks.cfg
2 KB
node_exporter-1.1.2.li...
9,030 KB
0 B of 76.6 MB in 0 of 3
5.48 KB of 8.82 MB in 1 of 19
25 hidden
SFTP-3
0:00:23
Type here to search
31°C
ENG
18:03
23-06-2021



Now, we need kubectl software which acts as a client for k8s cluster. Copy below code in terminal and it will create a Kubernetes repo from which we can install kubectl.

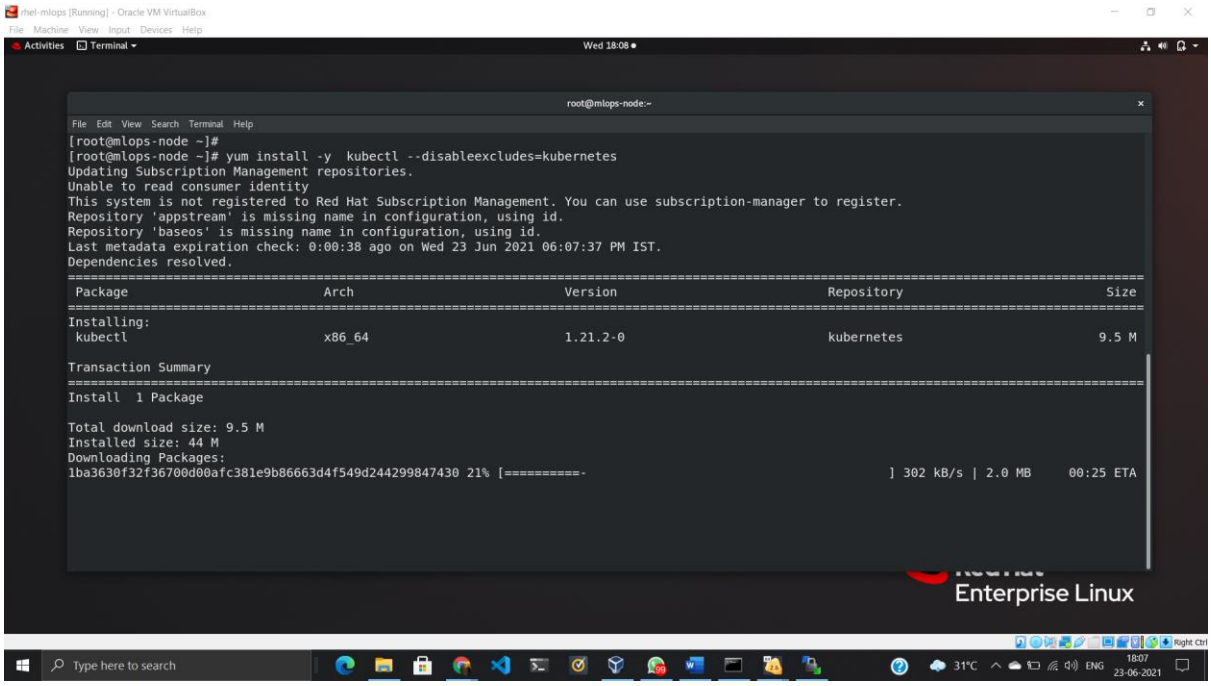
https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/install-kubeadm/

```
cat <<EOF | sudo tee /etc/yum.repos.d/kubernetes.repo
[kubernetes]
name=Kubernetes
baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-\$basearch
enabled=1
gpgcheck=1
repo_gpgcheck=1
gpgkey=https://packages.cloud.google.com/yum/doc/yum-key.gpg
https://packages.cloud.google.com/yum/doc/rpm-package-key.gpg
exclude=kubelet kubeadm kubectl
EOF
```

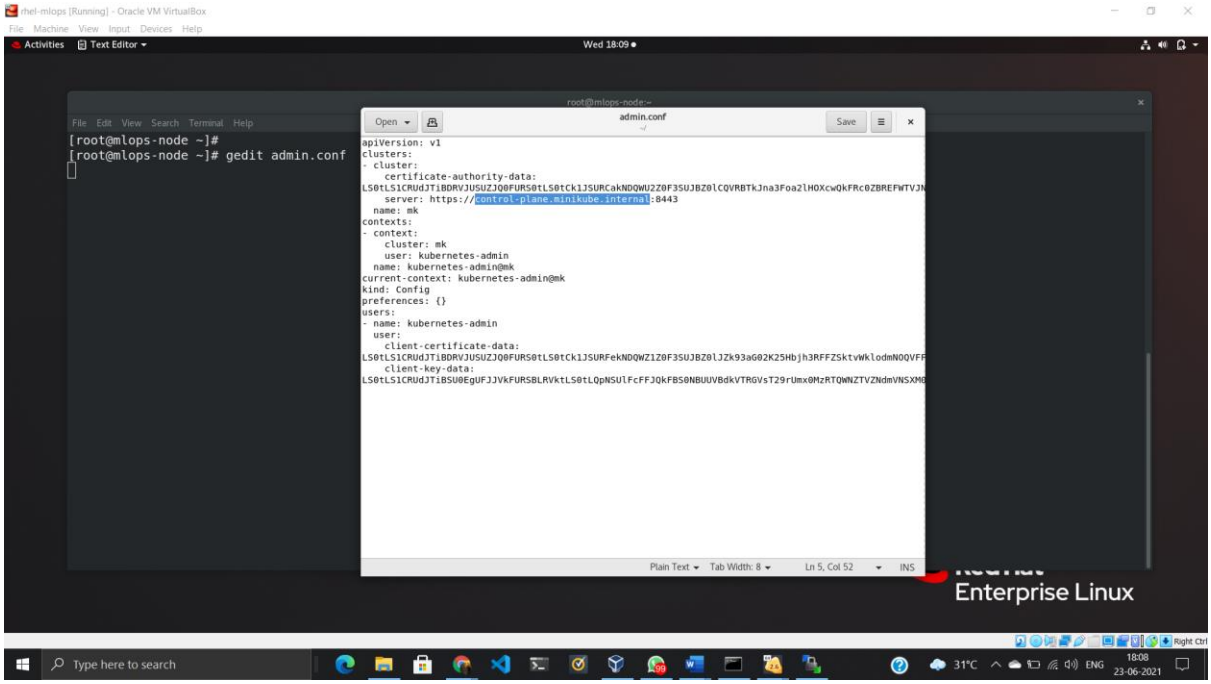


To install kubectl:

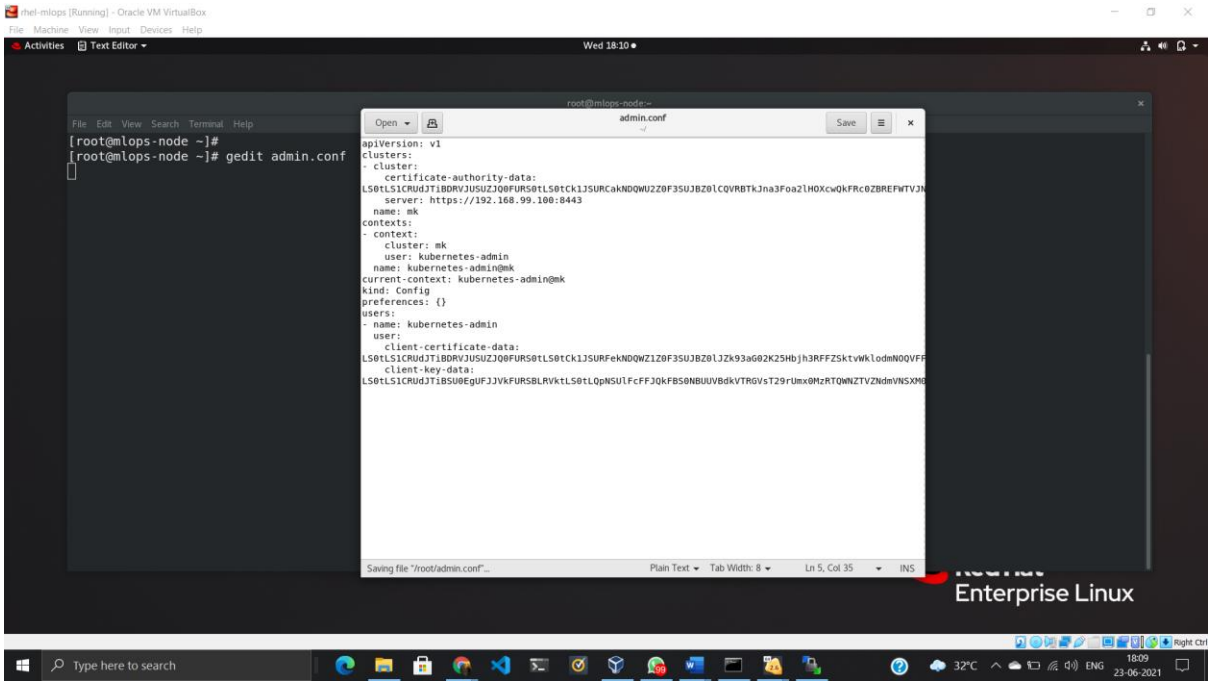
yum install kubectl



Now, we have to make a small change inside admin.conf file. Bydefault it has the hostname written as the server. So, we need to replace it by the IP Address of the Minikube VM.

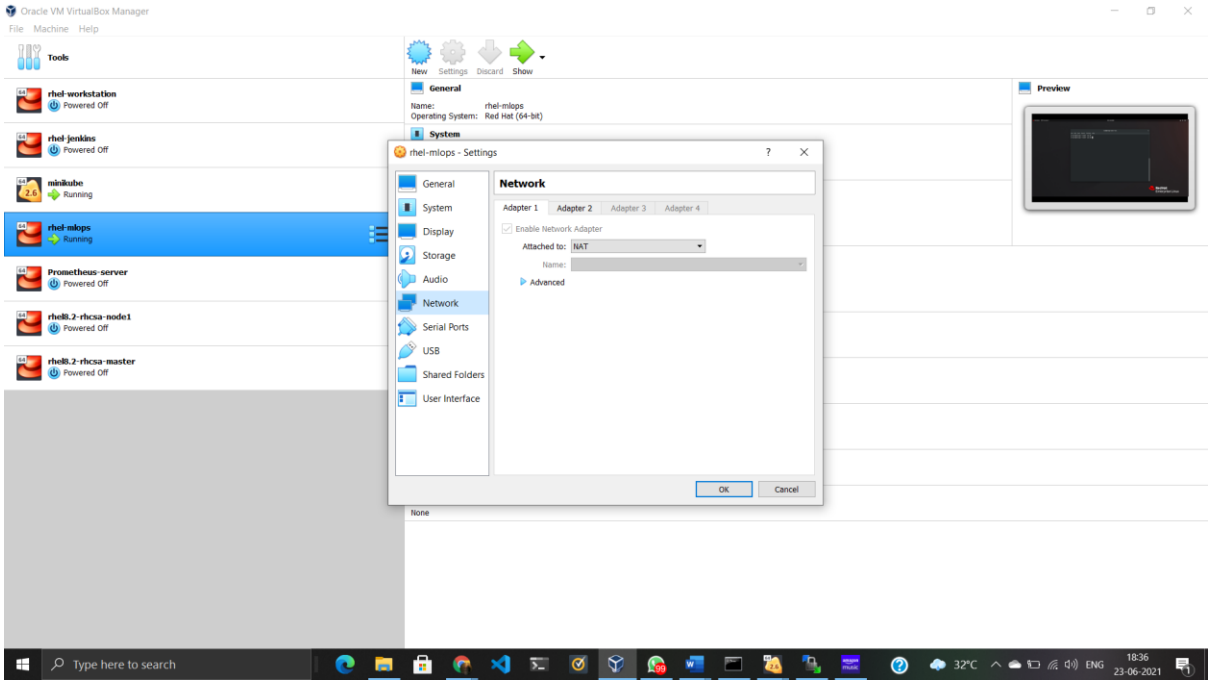


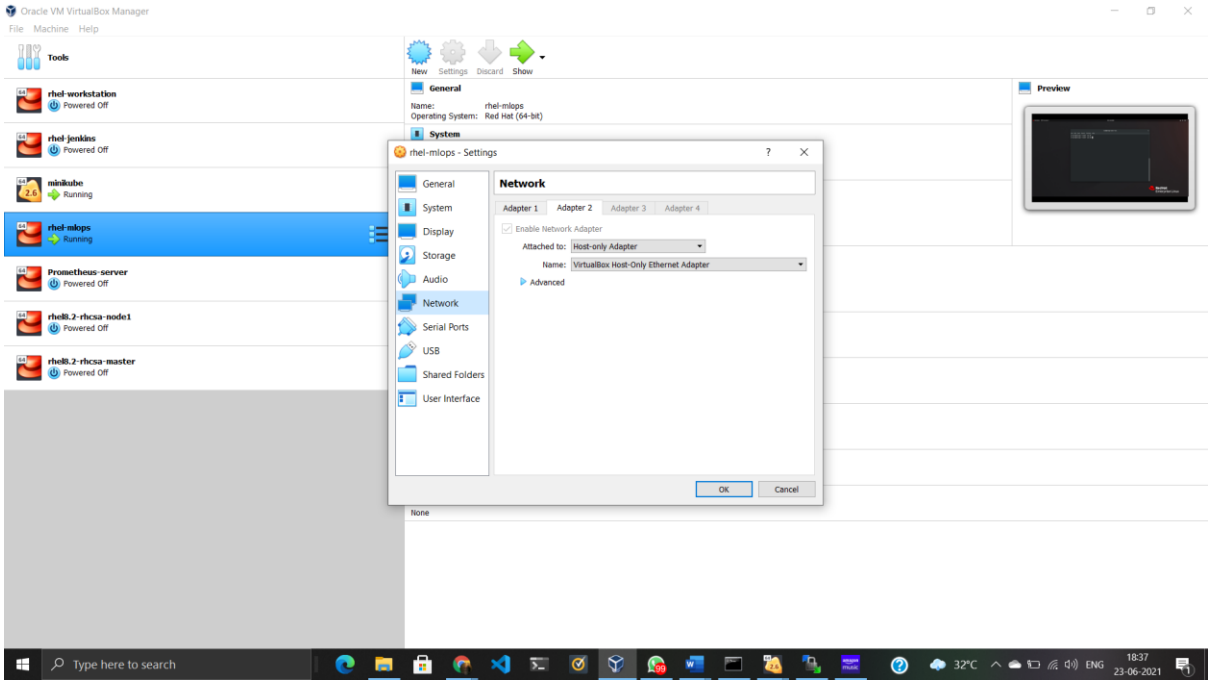
Put IP Address of Minikube VM.



Now, close the VM and change the Network Adapter of VM.

Put 1st Adapter as NAT and 2nd Adapter as Host Only



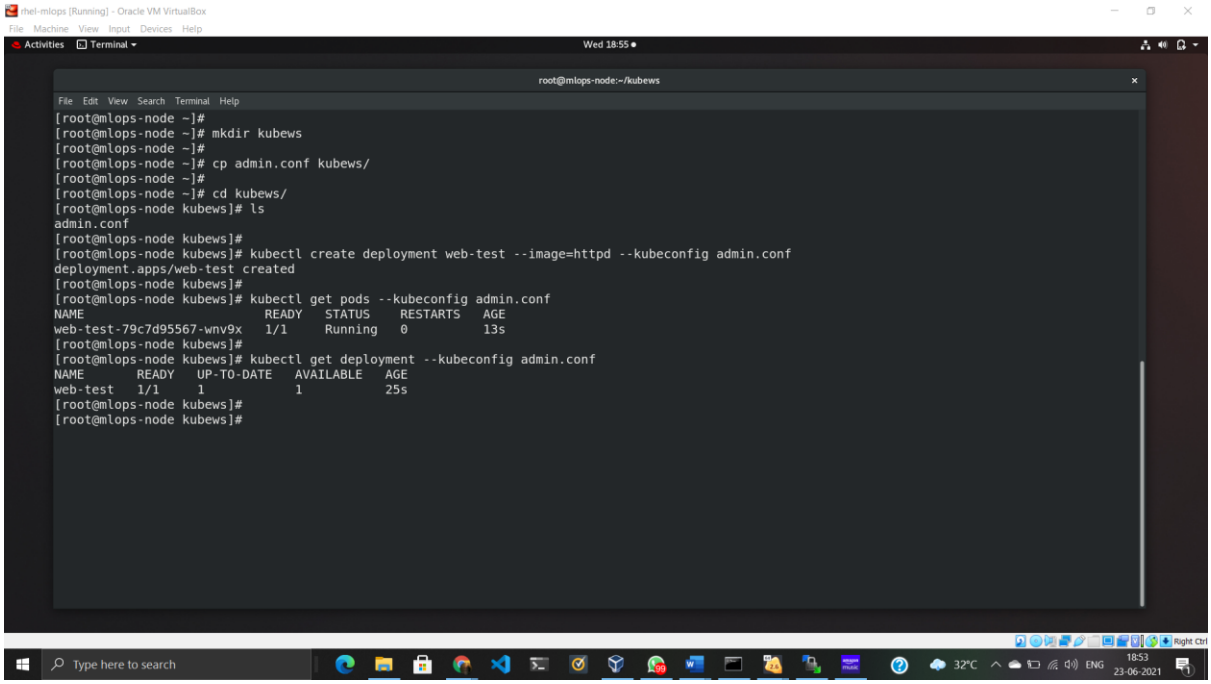


Start the VM. Create a working directory and put the admin.conf file in that directory.

And we can run kubectl commands by appending **--kubeconfig admin.conf** at last of the command.

Example:

kubectl create deployment web-test --image=httpd --kubeconfig admin.conf


rhel-mlops [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Wed 18:55
root@mlops-node:~/kubews
File Edit View Search Terminal Help
[root@mlops-node ~]#
[root@mlops-node ~]# mkdir kubews
[root@mlops-node ~]#
[root@mlops-node ~]# cp admin.conf kubews/
[root@mlops-node ~]#
[root@mlops-node ~]# cd kubews/
[root@mlops-node kubews]# ls
admin.conf
[root@mlops-node kubews]#
[root@mlops-node kubews]# kubectl create deployment web-test --image=httpd --kubeconfig admin.conf
deployment.apps/web-test created
[root@mlops-node kubews]#
[root@mlops-node kubews]# kubectl get pods --kubeconfig admin.conf
NAME READY STATUS RESTARTS AGE
web-test-79c7d95567-wnv9x 1/1 Running 0 13s
[root@mlops-node kubews]#
[root@mlops-node kubews]# kubectl get deployment --kubeconfig admin.conf
NAME READY UP-TO-DATE AVAILABLE AGE
web-test 1/1 1 1 25s
[root@mlops-node kubews]#
[root@mlops-node kubews]#
Right Ctrl
Type here to search
32°C
ENG
18:53
23-06-2021