MiniKube Install on Linux VM

MiniKube is primarily a DevOps tool for Developing, Checking or Validating YAML files and many Charts.

NB: This install is for any Linux machine. Done on standard Ubuntu 20.04

MiniKube is a very good test/play environment where we can test scripts against.
This is how to install it on Ubuntu 2004 .

1. Update & Upgrade

```
sudo apt update
sudo apt upgrade
```

2. Ensure base tools installed

```
sudo apt-get install curl
sudo apt-get install apt-transport-https
```

3. MiniKube runs in VirtualBox - Install It

```
sudo apt install virtualbox virtualbox-ext-pack
```

4. Download MiniKube Binary

```
sudo wget https://storage.googleapis.com/minikube/releases/latest
/minikube-linux-amd64
```

It is saved in the directory you are working in.

5. Copy to local binary location: (/usr/local/bin/minikube)

```
sudo cp minikube-linux-amd64 /usr/local/bin/minikube
rm -rf minikube-linux-amd64
```

6. Grant MiniKube the correct permissions

```
sudo chmod 755 /usr/local/bin/minikube
```

7. Verify permissions

```
sudo chmod 755 /usr/local/bin/minikube
ls -lah /usr/local/bin/minikube
==>  -rwxr-xr-x 1 root root 66M Nov  3 07:26 /usr/local/bin/minikube
```

8. Check Version

```
minikube version
==>minikube version: v1.23.2
==>commit: 0a0ad764652082477c00d51d2475284b5d39ceed
```

9. Get kubectl from Google, Assign permissions, Check & move to bin.

```
cd ~/
curl -LO https://storage.googleapis.com/kubernetes-release/release
/'curl -s https://storage.googleapis.com/kubernetes-release/release
/stable.txt'/bin/linux/amd64/kubectl
sudo chmod +x kubectl
ls -lah
==>....-rwxr-xr-x  1 root  root  1.6K Jun 30 11:28 kubectl
sudo mv kubectl /usr/local/bin/kubectl
ls -lah /usr/local/bin/
==>-rwxr-xr-x  1 philipw@4cgroup.co.za domain users@4cgroup.co.za 1.6K
Nov  3 07:30 kubectl
```

10. Verify that kubectl is executable

```
kubectl version -o json
```

Startup MiniKube

```
minikube start
```

Follow output - ensure no error messages..
(It visualises and installs k8s for use)

OUTPUT as in this..