

## Installing kubectl

dhiuhu@DESKTOP-ATLGL31: ~

```
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt-get update
[sudo] password for dhiuhu:
0% [Working]
```

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```
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt-get update
[sudo] password for dhiuhu:
Hit:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:3 https://download.docker.com/linux/ubuntu focal InRelease
Hit:4 http://archive.ubuntu.com/ubuntu jammy InRelease
Hit:5 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:1 https://packages.cloud.google.com/apt kubernetes-xenial InRelease
Hit:6 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/a
RECAUTION section in apt-key(8) for details.
W: http://apt.kubernetes.io/dists/kubernetes-xenial/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/a
TION section in apt-key(8) for details.
dhiuhu@DESKTOP-ATLGL31:~$
```

dhiuhu@DESKTOP-ATLGL31: ~

```
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt-get install -y kubectl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  kubectl
0 upgraded, 1 newly installed, 0 to remove and 8 not upgraded.
Need to get 0 B/10.3 MB of archives.
After this operation, 49.9 MB of additional disk space will be used.
Selecting previously unselected package kubectl.
(Reading database ... 24490 files and directories currently installed.)
Preparing to unpack .../kubectl_1.28.2-00_amd64.deb ...
Unpacking kubectl (1.28.2-00) ...
Setting up kubectl (1.28.2-00) ...
dhiuhu@DESKTOP-ATLGL31:~$
```

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Unpacking kubectl (1.28.2-00) ...
Setting up kubectl (1.28.2-00) ...
dhiuhu@DESKTOP-ATLGL31:~$ kubectl version
Client Version: v1.28.2
Kustomize Version: v5.0.4-0.20230601165947-6ce0bf390ce3
The connection to the server localhost:8080 was refused - did you specify the right host or port?
dhiuhu@DESKTOP-ATLGL31:~$
```

## Installing Minikube

dhiuhu@DESKTOP-ATLGL31: ~

```
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt update
Hit:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu jammy InRelease
Hit:4 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:6 https://download.docker.com/linux/ubuntu focal InRelease
Hit:1 https://packages.cloud.google.com/apt kubernetes-xenial InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
8 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy tr
RECAUTION section in apt-key(8) for details.
W: http://apt.kubernetes.io/dists/kubernetes-xenial/InRelease: Key is stored in legacy tr
TION section in apt-key(8) for details.
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt install virtualbox
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adwaita-icon-theme alsa-topology-conf alsa-ucm-conf at-spi2-core build-essential bzip2
  dctrl-tools dkms dpkg-dev fakeroot fontconfig fontconfig-config fonts-dejavu-core g++ g
```

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```
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt install virtualbox
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
virtualbox is already the newest version (6.1.38-dfsg-3~ubuntu1.22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 8 not upgraded.
dhiuhu@DESKTOP-ATLGL31:~$ sudo apt install virtualbox-dkms linux-headers-$(uname -r)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package linux-headers-5.15.133.1-microsoft-standard-WSL2
E: Couldn't find any package by glob 'linux-headers-5.15.133.1-microsoft-standard-WSL2'
dhiuhu@DESKTOP-ATLGL31:~$ 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 89.3M  100 89.3M    0     0  3185k      0  0:00:28  0:00:28 --:--:-- 3200k
dhiuhu@DESKTOP-ATLGL31:~$ sudo install minikube-linux-amd64 /usr/local/bin/minikube
dhiuhu@DESKTOP-ATLGL31:~$ minikube start
🌐 minikube v1.32.0 on Ubuntu 22.04 (amd64)
🔧 Automatically selected the docker driver. Other choices: none, ssh
🔧 Using Docker driver with root privileges
🔧 Starting control plane node minikube in cluster minikube
🔧 Pulling base image ...
📦 Downloading Kubernetes v1.28.3 preload ...
  > preloaded-images-k8s-v18-v1...: 403.35 MiB / 403.35 MiB 100.00% 1.59 Mi
  > gcr.io/k8s-minikube/kicbase...: 453.90 MiB / 453.90 MiB 100.00% 1.62 Mi
🔧 Creating docker container (CPUs=2, Memory=2200MB) ...
🔧 Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
  ▪ Generating certificates and keys ...
  ▪ Booting up control plane ...
  ▪ Configuring RBAC rules ...
🔧 Configuring bridge CNI (Container Networking Interface) ...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🔧 Verifying Kubernetes components...
  Enabled addons: storage-provisioner, default-storageclass
🔧 Done! kubect1 is now configured to use "minikube" cluster and "default" namespace by default
dhiuhu@DESKTOP-ATLGL31:~$
```