KUBERNETES:

Kuberctl version:

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ curl -LO "https://dl.k8s.io/release/$(curl -Ls https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   138  100   138    0     0    171      0 --:--:-- --:--:-- --:--:--   171
100 54.6M  100 54.6M    0     0  1304k      0  0:00:42  0:00:42 --:--:-- 1720k
jothi@jothi-HP-Laptop-15-hr0xxx:~$ sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
jothi@jothi-HP-Laptop-15-hr0xxx:~$ rm kubectl
jothi@jothi-HP-Laptop-15-hr0xxx:~$ kubectl version --client
Client Version: v1.32.3
Kustomize Version: v5.5.0
```

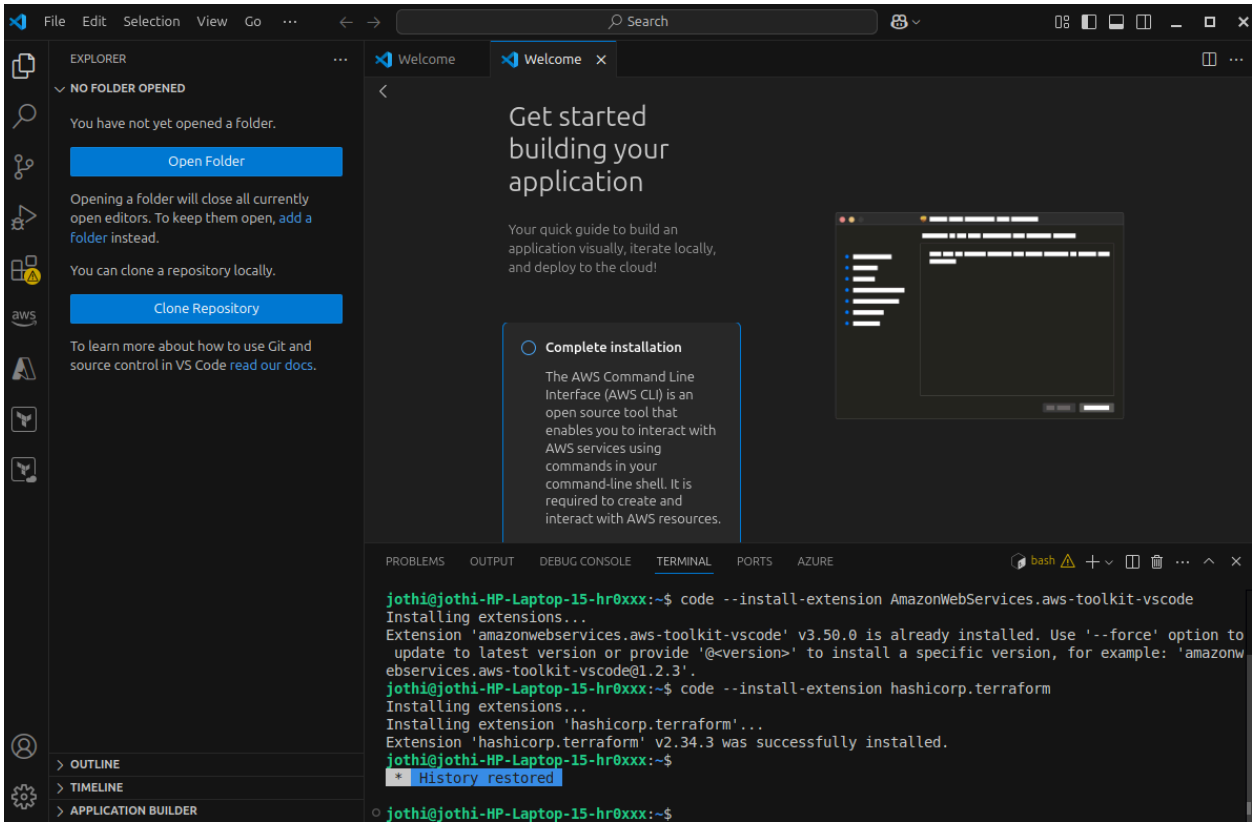
MiniKube version & status:

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ rm minikube-linux-amd64
jothi@jothi-HP-Laptop-15-hr0xxx:~$ minikube version
minikube version: v1.35.0
commit: dd5d320e41b5451cdf3c01891bc4e13d189586ed-dirty
jothi@jothi-HP-Laptop-15-hr0xxx:~$ minikube start --driver=docker
😄  minikube v1.35.0 on Ubuntu 24.04
✨  Using the docker driver based on user configuration

💣  Exiting due to PROVIDER_DOCKER_NEWGRP: "docker version --format <no value>-<no value>:<no value>" exit status 1: permission denied while trying to connect to the Docker daemon sock
et at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.45/version": dial unix /var/run/docker.sock: connect: permission denied
💡  Suggestion: Add your user to the 'docker' group: 'sudo usermod -aG docker $USER && newgrp docker'
📘  Documentation: https://docs.docker.com/engine/install/linux-postinstall/

jothi@jothi-HP-Laptop-15-hr0xxx:~$ minikube status
🤷  Profile "minikube" not found. Run "minikube profile list" to view all profiles.
👉  To start a cluster, run: "minikube start"
jothi@jothi-HP-Laptop-15-hr0xxx:~$ minikube profile list

🤹  Exiting due to MK_USAGE_NO_PROFILE: No minikube profile was found.
💡  Suggestion:

    You can create one using 'minikube start'.
```

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

jothi@jothi-HP-Laptop-15-hr0xxx:~$ kubectl version --client
Client Version: v1.32.3
Kustomize Version: v5.5.0
```

VS Code installation:

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ sudo apt install code -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  code
0 upgraded, 1 newly installed, 0 to remove and 13 not upgraded.
Need to get 104 MB of archives.
After this operation, 422 MB of additional disk space will be used.
Get:1 https://packages.microsoft.com/repos/code stable/main amd64 code amd64 1.98.2-1741788907 [104 MB]
Fetched 104 MB in 50s (2,075 kB/s)
Preconfiguring packages ...
Selecting previously unselected package code.
(Reading database ... 189790 files and directories currently installed.)
Preparing to unpack .../code_1.98.2-1741788907_amd64.deb ...
Unpacking code (1.98.2-1741788907) ...
Setting up code (1.98.2-1741788907) ...
Processing triggers for gnome-menus (3.36.0-1.1ubuntu3) ...
Processing triggers for shared-mime-info (2.4-4) ...
Processing triggers for desktop-file-utils (0.27-2build1) ...
```




```
Extension 'amazonwebservices.aws-toolkit-vscode~' not found.
Make sure you use the full extension ID, including the publisher, e.g.: ms-dotnettools.csharp
Failed Installing Extensions: amazonwebservices.aws-toolkit-vscode~
jothi@jothi-HP-Laptop-15-hr0xxx:~$ code --install-extension AmazonWebServices.aws-toolkit-vscode
Installing extensions...
Extension 'amazonwebservices.aws-toolkit-vscode' v3.50.0 is already installed. Use '--force' option to
 update to latest version or provide '@<version>' to install a specific version, for example: 'amazonw
ebservices.aws-toolkit-vscode@1.2.3'.
jothi@jothi-HP-Laptop-15-hr0xxx:~$ code --install-extension hashicorp.terraform
Installing extensions...
Installing extension 'hashicorp.terraform'...
Extension 'hashicorp.terraform' v2.34.3 was successfully installed.
jothi@jothi-HP-Laptop-15-hr0xxx:~$
```

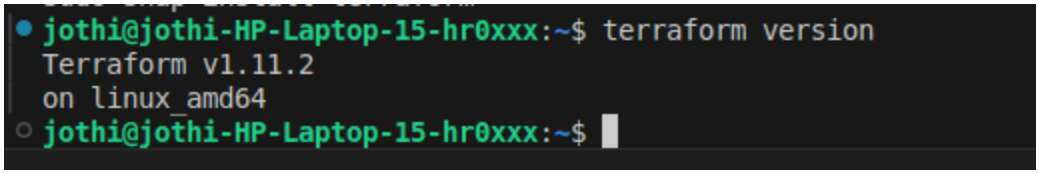
AWS Installation:

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ cat /etc/apt/sources.list.d/vscode.list
deb [arch=amd64 signed-by=/usr/share/keyrings/packages.microsoft.gpg] https://packages.microsoft.com/repos/code stable main
jothi@jothi-HP-Laptop-15-hr0xxx:~$ code
jothi@jothi-HP-Laptop-15-hr0xxx:~$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 64.8M  100 64.8M    0     0  1949k      0  0:00:34  0:00:34 --:--:-- 3317k
jothi@jothi-HP-Laptop-15-hr0xxx:~$ sudo apt install unzip -y
[sudo] password for jothi:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
unzip is already the newest version (6.0-28ubuntu4.1).
unzip set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 13 not upgraded.
jothi@jothi-HP-Laptop-15-hr0xxx:~$ unzip awscliv2.zip
Archive:  awscliv2.zip
   creating: aws/
   creating: aws/dist/
  inflating: aws/README.md
  inflating: aws/THIRD_PARTY_LICENSES
  inflating: aws/install
   creating: aws/dist/awscli/
   creating: aws/dist/cryptography/
   creating: aws/dist/docutils/
   creating: aws/dist/lib-dynload/
  inflating: aws/dist/aws
  inflating: aws/dist/aws_completer
  inflating: aws/dist/libpython3.12.so.1.0
  inflating: aws/dist/_awscrt.abi3.so
  inflating: aws/dist/_cffi_backend.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/_ruamel_yaml.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/libz.so.1
  inflating: aws/dist/liblzma.so.5
  inflating: aws/dist/libbz2.so.1
  inflating: aws/dist/libffi.so.6
  inflating: aws/dist/libuuid.so.1
  inflating: aws/dist/libgcc_s.so.1
  inflating: aws/dist/libsqlite3.so.0
  inflating: aws/dist/base_library.zip
  inflating: aws/dist/lib-dynload/_blake2.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/lib-dynload/_md5.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/lib-dynload/_sha1.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/lib-dynload/_sha2.cpython-312-x86_64-linux-gnu.so
```

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ sudo ./aws/install
You can now run: /usr/local/bin/aws --version
jothi@jothi-HP-Laptop-15-hr0xxx:~$ aws --version
aws-cli/2.24.26 Python/3.12.9 Linux/6.11.0-19-generic exe/x86_64.ubuntu.24
jothi@jothi-HP-Laptop-15-hr0xxx:~$ aws configure
AWS Access Key ID [None]: ^C
jothi@jothi-HP-Laptop-15-hr0xxx:~$
```

Terraform installation in Ubuntu:

```
jothi@jothi-HP-Laptop-15-hr0xxx:~$ sudo apt install -y terraform
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  terraform
0 upgraded, 1 newly installed, 0 to remove and 13 not upgraded.
Need to get 27.6 MB of archives.
After this operation, 90.6 MB of additional disk space will be used.
Get:1 https://apt.releases.hashicorp.com noble/main amd64 terraform amd64 1.11.2-1 [27.6 MB]
Fetched 27.6 MB in 1min 31s (304 kB/s)
Selecting previously unselected package terraform.
(Reading database ... 192732 files and directories currently installed.)
Preparing to unpack .../terraform_1.11.2-1_amd64.deb ...
Unpacking terraform (1.11.2-1) ...
Setting up terraform (1.11.2-1) ...
jothi@jothi-HP-Laptop-15-hr0xxx:~$ sudo apt install -y terraform
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
terraform is already the newest version (1.11.2-1).
0 upgraded, 0 newly installed, 0 to remove and 13 not upgraded.
jothi@jothi-HP-Laptop-15-hr0xxx:~$ terraform version
Terraform v1.11.2
on linux_amd64
jothi@jothi-HP-Laptop-15-hr0xxx:~$
```


jothi@jothi-HP-Laptop-15-hr0xxx:~$ terraform version
Terraform v1.11.2
on linux_amd64
jothi@jothi-HP-Laptop-15-hr0xxx:~$