**Kubectl Installation**

The Kubernetes Command-Line tool that allows to run commands against Kubernetes clusters. The instructions for installing kubectl can be found [here](https://kubernetes.io/docs/tasks/tools/install-kubectl/).

There are various ways to install kubectl but we will focus on how to do it using curl. Scroll down the page until you reach the section *Install kubectl binary via curl*. We will install the latest version of kubectl, so use the following commands.

curl -LO https://storage.googleapis.com/kubernetes-release/release/**$(**curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt**)**/bin/darwin/amd64/kubectl

Now, let's change the file permission for kubectl

chmod +x ./kubectl

Let's move it to the /usr/local/bin directory

sudo mv ./kubectl /usr/local/bin/kubectl

**Docker Installation**

Update the apt package index and install packages to allow apt to use a repository over HTTPS. Copu and Paste these **commands**one by one in the terminal. The official installation documentation page for docker can be found [here](https://docs.docker.com/engine/install/ubuntu/).

sudo apt-get update

Then this cmd:

sudo apt-get install \

apt-transport-https \

ca-certificates \

curl \

gnupg-agent \

software-properties-common

Press **Y** and then Enter.

Then we have to add Docker’s official GPG key:

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

Use the following command to set up the stable repository:

sudo add-apt-repository \

"deb [arch=amd64] https://download.docker.com/linux/ubuntu \

**$(**lsb\_release -cs**)** \

stable"

Press **Y** and then Enter.

And install the latest version of Docker Engine and containerd `

sudo apt-get install docker-ce docker-ce-cli containerd.io

**Allowing Permission to the sock:**

sudo chmod 666 /var/run/docker.sock

**Minikube Installation**

Installing minikube using binary download option.

The releases for minikube can be found [here](https://github.com/kubernetes/minikube/releases).

curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64

sudo install minikube-linux-amd64 /usr/local/bin/minikube

**Snap Installation**

Snap is a software deployment and package management system developed by Canonical.

sudo apt install snap

**Helm Installation**

Helm is a package manager for Kubernetes. `

sudo snap install helm --classic

**Kubectx and Kubens Installation**

Helper scripts for changing Kubernetes contexts and namespaces. The github repo for kubectx and kubens can be found [here](https://github.com/ahmetb/kubectx). First Let's get Kubectx and Kubens from github using:

wget https://raw.githubusercontent.com/ahmetb/kubectx/master/kubectx

And then

wget https://raw.githubusercontent.com/ahmetb/kubectx/master/kubens

Now, let's change the file permission for kubectx and kubens

sudo chmod +x kubectx kubens

Let's move it to the /usr/local/bin directory

sudo mv kubectx kubens /usr/local/bin

**Kubetail Installation**

A helper script for easily tail logs from pods.

wget https://raw.githubusercontent.com/johanhaleby/kubetail/master/kubetail

Now, let's change the file permission for kubetail

sudo chmod +x kubetail

Let's move it to the /usr/local/bin directory

sudo mv kubetail /usr/local/bin