**Kubernetes Installation**

**1)Installing Google SDK on Ubuntu**

# Create an environment variable for the correct distribution  
export CLOUD\_SDK\_REPO="cloud-sdk-$(lsb\_release -c -s)"  
  
# Add the Cloud SDK distribution URI as a package source  
echo "deb http://packages.cloud.google.com/apt $CLOUD\_SDK\_REPO main" | sudo tee -a /etc/apt/sources.list.d/google-cloud-sdk.list  
  
# Import the Google Cloud Platform public key  
curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -  
  
# Update the package list and install the Cloud SDK  
sudo apt-get update && sudo apt-get install google-cloud-sdk

## 2) Initialize the SDK

gcloud init

To continue, you must log in. Would you like to log in (Y/n)? Y

**3) Run core gcloud commands**

1. To list accounts whose credentials are stored on the local system:

gcloud auth list

gcloud displays a list of credentialed accounts:

Credentialed Accounts

ACTIVE ACCOUNT

\* example-user-1@gmail.com

example-user-2@gmail.com

1. To list the properties in your active SDK configuration:

gcloud config list

gcloud displays the list of properties:

[core]

account = example-user-1@gmail.com

disable\_usage\_reporting = False

project = example-project

1. To view information your Cloud SDK installation and the active SDK configuration:

gcloud info

gcloud displays a summary of information about your Cloud SDK installation. This includes information about your system, the installed SDK components, the active user account and current project, and the properties in the active SDK configuration.

1. To view information about gcloud commands and other topics from the command line:

gcloud help

For example, to view the help for gcloud compute instances create:

gcloud help compute instances create

gcloud displays a help topic that contains a description of the command, a list of command flags and arguments, and examples of how to use it.

**4)Installing Kubectl on Ubuntu**

1. Download the latest release with the command:
2. **curl -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/linux/amd64/kubectl**

To download a specific version, replace the **$(curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt)**portion of the command with the specific version.

For example, to download version v1.9.0 on Linux, type:

**curl -LO https://storage.googleapis.com/kubernetes-release/release/v1.9.0/bin/linux/amd64/kubectl**

1. Make the kubectl binary executable.
2. **chmod +x ./kubectl**
3. Move the binary in to your PATH.

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