**The script for update and set-up of GCE instance.**

1. While creating an instances through the command line we can develop the equivalent command line from the GCP console and While developing we have to enter the start up script to update the system.

The script is as follows in the bin bash :

#! /bin/bash

apt update

apt -y install apache2

cat <<EOF > /var/www/html/index.html

<html><body><p>Linux startup script added

directly.</p></body></html>

1. The equivalent command line is as follows:

gcloud compute instances create shubham-vm --project=hybridskill-4 --zone=asia-south1-a --machine-type=e2-medium --network-interface=network-tier=PREMIUM,subnet=default --metadata=startup-script=\#\!\ /bin/bash$'\n'\ apt\ update$'\n'\ apt\ -y\ install\ apache2$'\n'\ cat\ \<\<EOF\ \>\ /var/www/html/index.html$'\n'\ \<html\>\<body\>\<p\>Linux\ startup\ script\ added\ directly.\</p\>\</body\>\</html\>$'\n' --maintenance-policy=MIGRATE --service-account=469341029504-compute@developer.gserviceaccount.com --scopes=https://www.googleapis.com/auth/devstorage.read\_only,https://www.googleapis.com/auth/logging.write,https://www.googleapis.com/auth/monitoring.write,https://www.googleapis.com/auth/servicecontrol,https://www.googleapis.com/auth/service.management.readonly,https://www.googleapis.com/auth/trace.append --tags=http-server,https-server --create-disk=auto-delete=yes,boot=yes,device-name=shubham-vm,image=projects/ubuntu-os-cloud/global/images/ubuntu-minimal-2104-hirsute-v20210929,mode=rw,size=20,type=projects/hybridskill-4 /zones/asia-south1-a/diskTypes/pd-standard --no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --reservation-affinity=any

This will update the system instance while creating the instance through command line.

Then while creating the instance we can add on more scripts to make them vm more flexible.

Like for example we can delete, stop, create, and start the instance from there itself. For that a start-up script is needed. The script is as follows:

#!/bin/bash

var='please enter your choice'

options= ("opt1-Delete" "opt2-Stop" "opt3-start" "quit")

select opt in "${options[@]}"

do

case $opt in

"opt1-Delete")

echo "choose 1"

gcloud compute instances delete mywebserver

echo "your instance is deleted"

"opt2-Stop")

echo "choose 2"

gcloud compute instances stop mywebserver

echo "instance stopped"

;;

"opt3-start")

echo "choose 3"

gcloud compute instances start mywebserver

echo "instance started"

;;

"quit")

break

;;

\*)echo "invaild option";;

esac

done