GCP

B C SACHIN

Instance name :

Create vm by following details

Graphical user interface, application

Description automatically generated

Connect using

gcloud beta compute ssh --zone "us-west2-a" "bcsachin-staticwebsite1" --tunnel-through-iap --project "us-gcp-ame-con-116-npd-1"

or by clicking ssh on instance

\*after connecting to virtual instance

approach: \* install apache2

\*go to default html location **/var/www or /var/www/html**

\* replace those file with desired files

now restart apache2

and in default location we got desired website

Text

Description automatically generated

QUESTION 2:

Create vm same mentioned in question1

Now install dependencies apache2,php and its extenstion

Install mysql server

Now install mysql and configure

sudo service mysql start

sudo mysql -u root

create user and give privileges

mysql> CREATE DATABASE wordpress;

mysql> CREATE USER wordpress@localhost IDENTIFIED BY '<your-password>';

mysql> GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,DROP,ALTER

-> ON wordpress.\*

-> TO wordpress@localhost;

Now create/ modify wordpress config with mysql config

* Change directory to default html
* Curl to get wordpress files. https://wordpress.org/latest.tar.gz
* Extract using tar
* Configure wordpress
  + Sudo chown -R www-data /var/www/html/wordpress
  + Assign correct permission. Sudo find /var/www/html/wordpress /-type d exec chmod 750 {} \;
  + Assign correct permission. Sudo find /var/www/html/wordpress /-type f exec chmod 640 {} \;

Move wp-confi-sample.php to wp-config.php

Edit mysql details wp-config.php

* Make changes sites-available ->default.conf
* After adding config sudo a2enmod rewrite

And start server and redirect to wordpress and enter mysql credential by host , username, password (if ask)

Now login with credential

Then we can see dashboard and other options

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QUESTION 3:

AS

WE KNOW errors and logs are stored in log file

grep -i “ERROR” **/var/log/nginx/error.log >> err\_nginx.log**

grep -i “INFO” **/var/log/nginx/error.log >> info\_nginx.log**

grep -i “WARNING” **/var/log/nginx/error.log >> Warning\_nginx.log**

grep -i “WARNING” **/var/log/mysql.err >>warning\_mysql.log**

grep -i “ERROR” **/var/log/mysql.err >>error\_mysql.log**

grep -i “INFO” **/var/log/mysql.err >>info\_mysql.log**

QUESTION4:

\*CREATED BUCKET bcsachin-bucket

\*add 3 files. In png format

Graphical user interface, text, email

Description automatically generated

Now create cloud function

With script

Graphical user interface, text, application

Description automatically generated

Now test the code to get the result.by giving test.

NOTE: add google-cloud-storage>=1.43.0 which is latest

Graphical user interface, text, application, email

Description automatically generated

After changing service account

Graphical user interface, text, application, Word

Description automatically generated

QUESTION 5:

CREATE CE

AND ADD STARTING SCRIPT

#!/bin/bash

apt update

apt install -y nginx

apt install docker

Graphical user interface, application, Word

Description automatically generated

THIS WILL INSTALL NGINX AND DOCKER VERY BEGINNING

QUESTION 6:

Search snapshot in console

Create new snapshot

Now provide name,description, source disk,location

After creating snapshot view that, we get create instace button

And create instance by providing region and other info

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated

//Or. Not tried

Gcloud compute disks snapshot bcsachin-5t h –snapshot-names image-snapshot