#### BRAINWAVE MATRIX SOLUTIONS

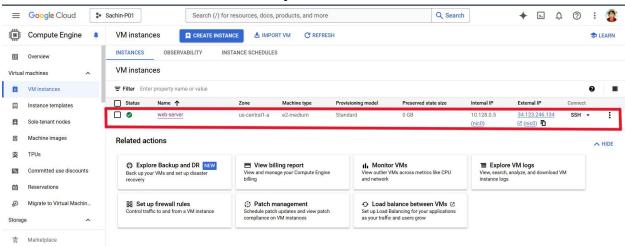
#### **TASK 2:-**

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# TASK -- 2 - CLOUD COMPUTING INTERNSHIP SIMPLE STATIC WEBSITE AND DEPLOYING IT TO GOOGLE CLOUD.

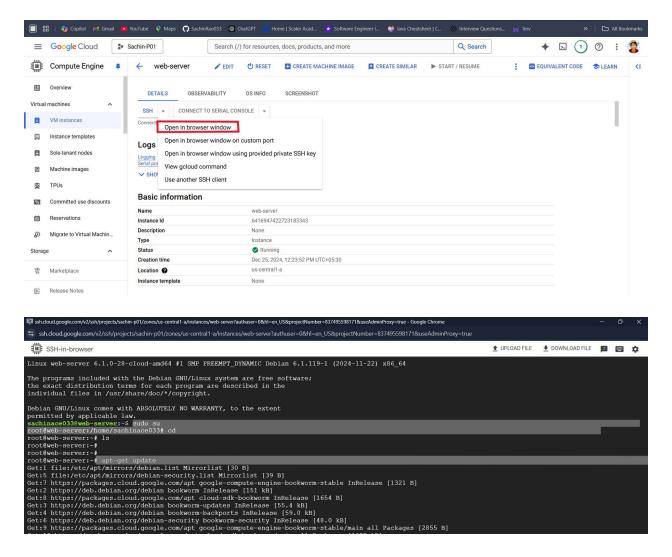
### Step 1: Launch a New VM Instance ("Compute Engine" - Google Cloud).

- Log in to Google Cloud Console, navigate to *Compute Engine*, and create a *new VM instance*, and *Security Traffic & Cloud Key* is taken default.
- This instance will serve as your server.



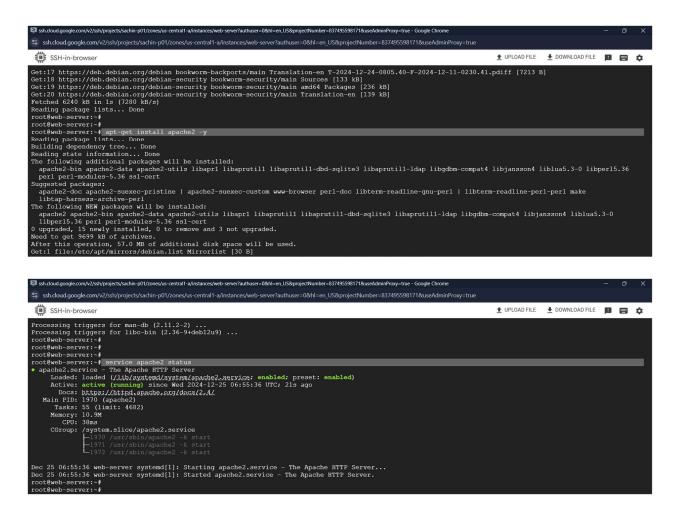
#### Step 2: Connect via SSH & Gain Root Access & Update Package Lists.

- Use the SSH option in the Google Cloud Console to access your instance securely. This provides a command-line interface.
- Run "<u>sudo su</u>"- to switch to the root user. This gives you administrative privileges needed for installations and configurations.
- Execute "<u>apt-get update</u>"- to ensure your package lists are upto-date, which is crucial for installing the latest software.



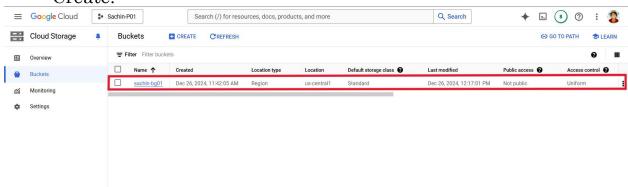
#### Step 3:- Install Apache 2 & Check Apache Status.

- Use "<u>apt-get install apache2</u>" to install the Apache server, which will host your web application or static website.
- Verify Apache is running by using "<u>systemctl status apache2</u>" or "<u>service apache2 status</u>". This ensures your server is active and ready.

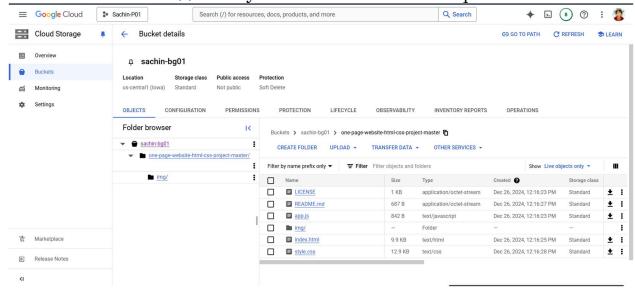


#### Step 4:-Create a Storage Bucket & Upload Files to the Bucket.

- Navigate to the Cloud Storage page.
- Click <u>Create Bucket</u>.
- Set the *Bucket name* (must be globally unique).
- Choose the *Storage class* and *Location* based on your needs.
- Configure permissions (e.g., allow public or private access) & Click Create.

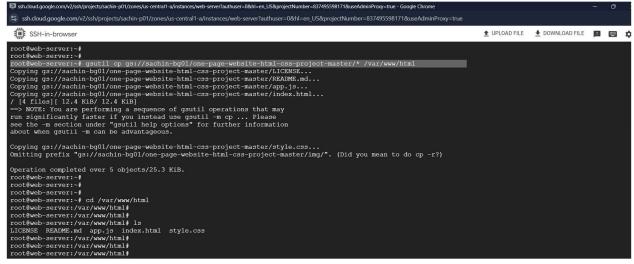


- Go to your bucket.
- Click <u>Upload Files</u> or <u>Upload Folder</u>.
- Select the file(s) from your local machine and upload.



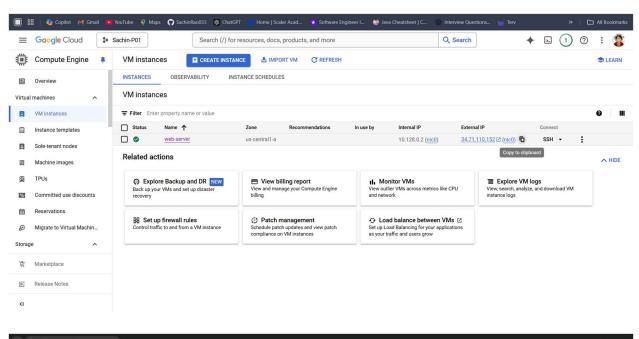
#### Step 5:-Copy File from Cloud Storage to VM Instance

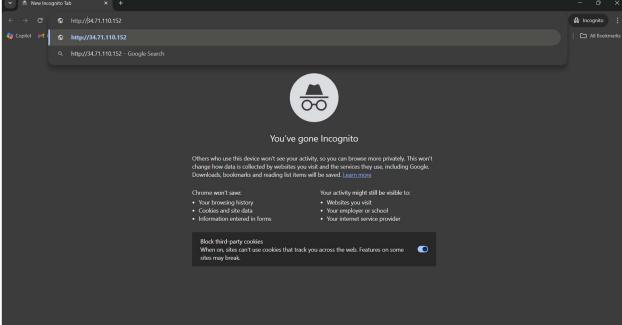
- Use the *gsutil* command to copy the file from the bucket to the VM:
  - --"gsutil cp gs://sachin-bg01/one-page-website/\*/var/www/html"
- -<u>sachin-bg01</u> with the name of storage bucket.
- -one-page-website with the name of the uploaded file.
- -/var/www/html with the destination directory on our VM instance.

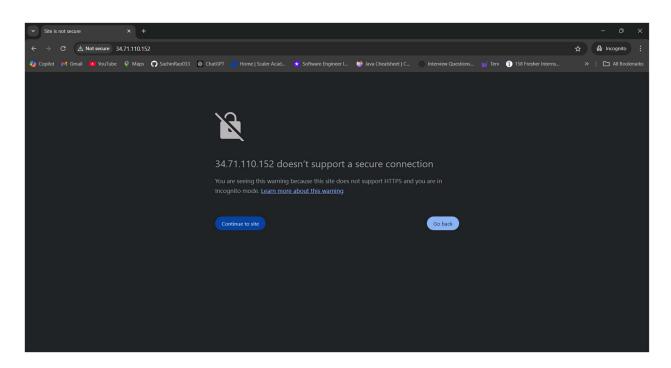


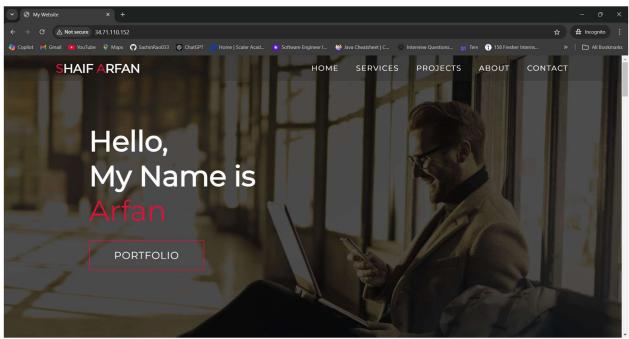
### Step 5:- OUTPUT - Deploy Static Web Application.

• Copy the public IP address of your VM, open a browser, and navigate to it. Your application should now be running.









## **SERVICES**

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#### ABOUT ME

#### Front End Developer

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