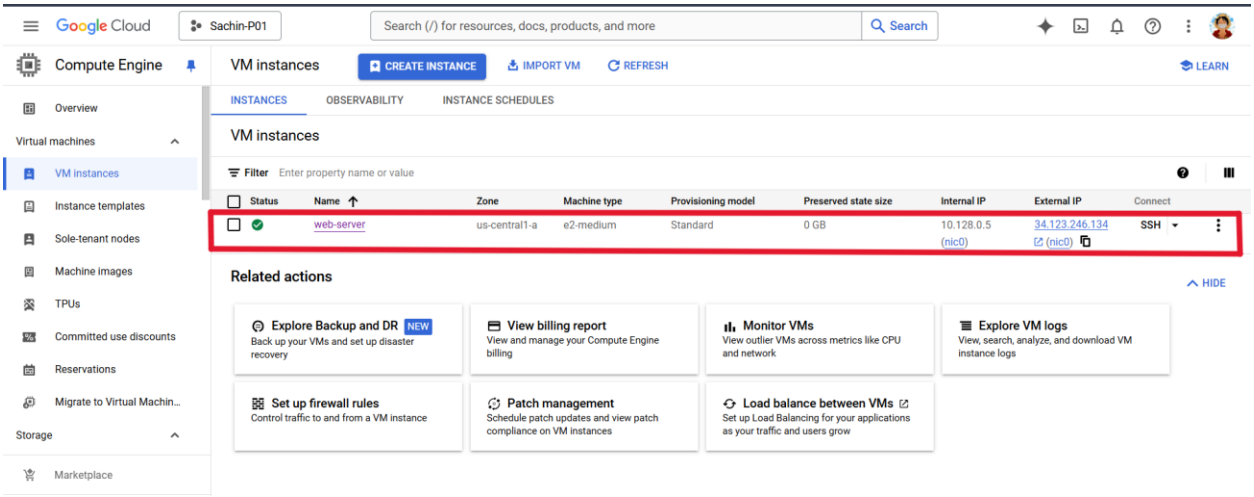
BRAINWAVE MATRIX SOLUTIONS

TASK 2(Video Link) :-
https://drive.google.com/file/d/1kfbO1cISb63TnjV0ivw7qdAxoaC1XOzK/view?usp=drive_link

TASK -- 2 – CLOUD COMPUTING INTERNSHIP DEPLOY A SIMPLE STATIC WEBSITE ON GOOGLE CLOUD PLATFROM(GCP) BY USING STORAGE_BUCKET.

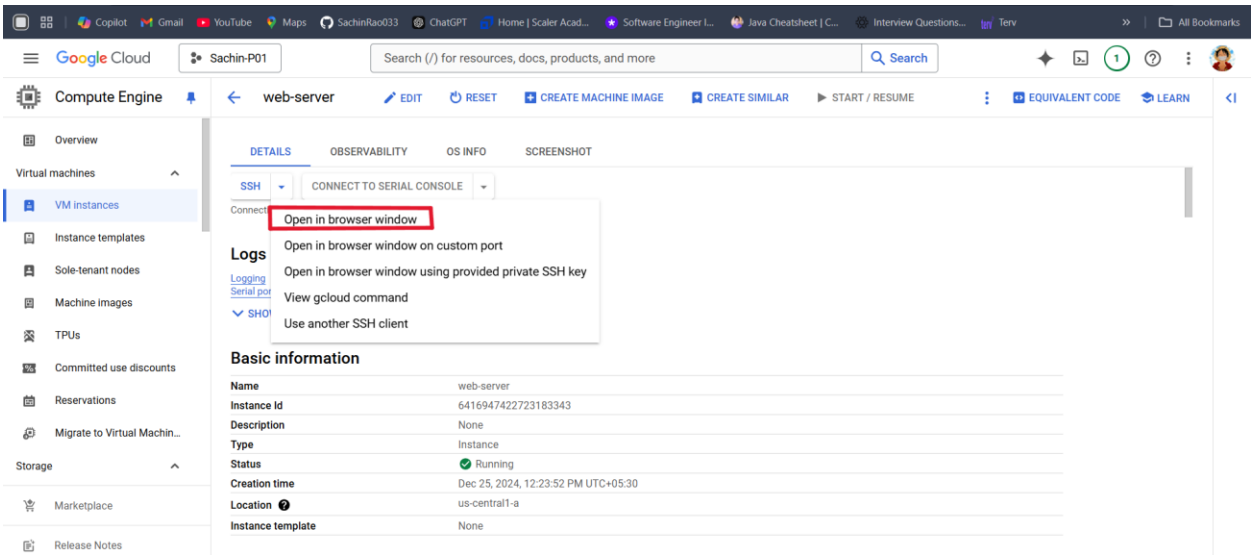
Step 1:- **Launch a New VM Instance ("Compute Engine"- Google Cloud).**

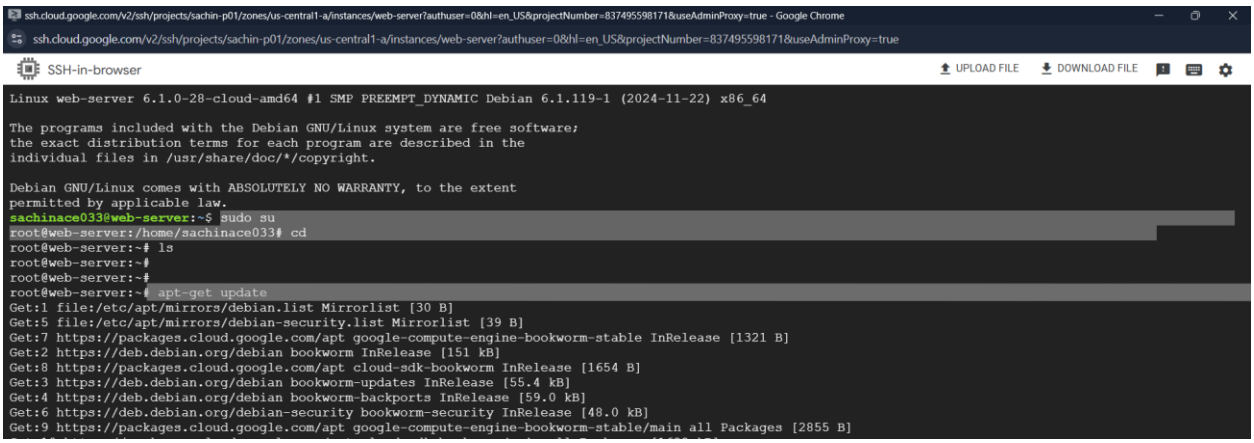
- Log in to Google Cloud Console, navigate to *Compute Engine*, and create a *new VM instance*, and *Security Traffic* & *Cloud Key* is taken default.
- This instance will serve as your server.



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

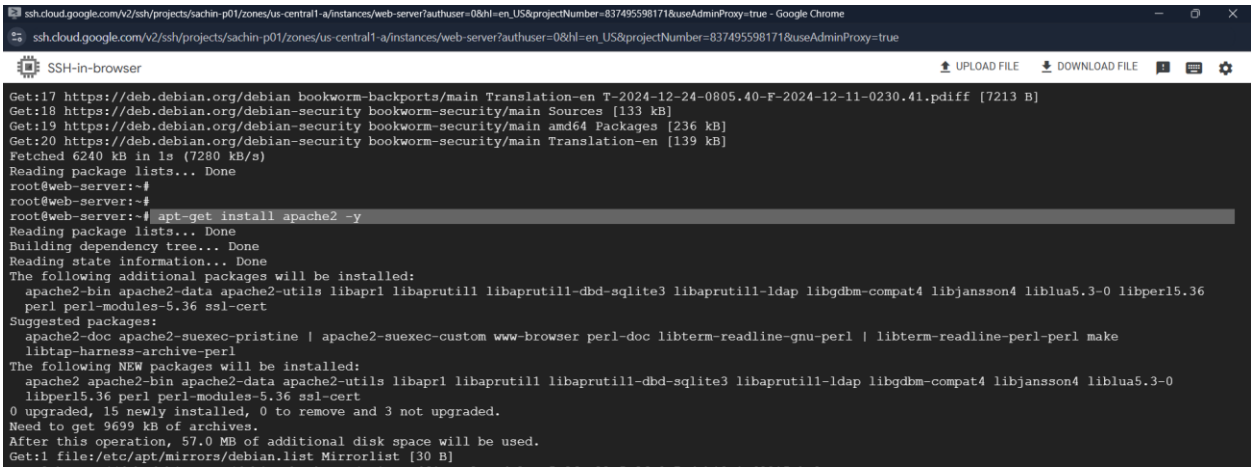
- Use the SSH option in the Google Cloud Console to access your instance securely. This provides a command-line interface.
- Run "`sudo su`"- to switch to the root user. This gives you administrative privileges needed for installations and configurations.
- Execute "`apt-get update`"- to ensure your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

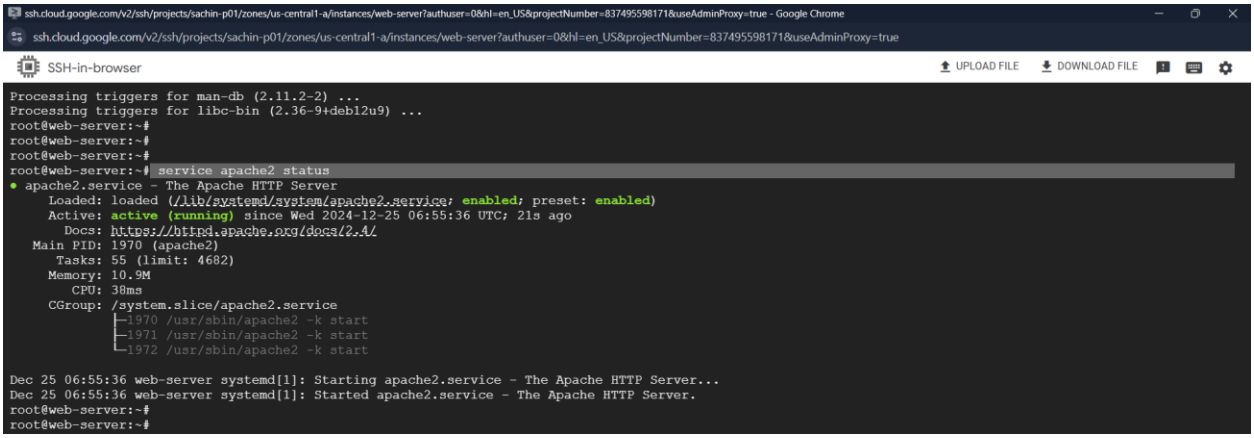




Step 3:- **Install Apache2 & Check Apache Status.**

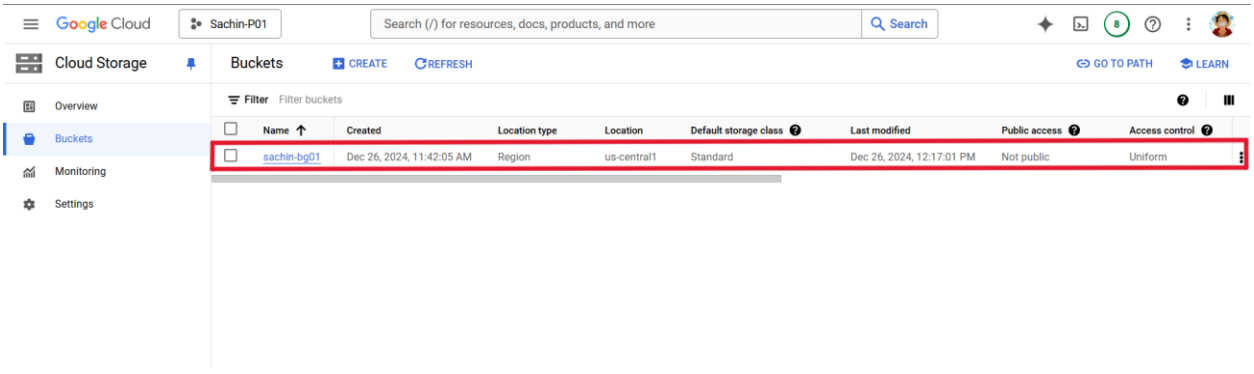
- Use "*apt-get install apache2*" - to install the Apache server, which will host your web application or static website.
- Verify Apache is running by using - "*systemctl status apache2*" or "*service apache2 status*". This ensures your server is active and ready.



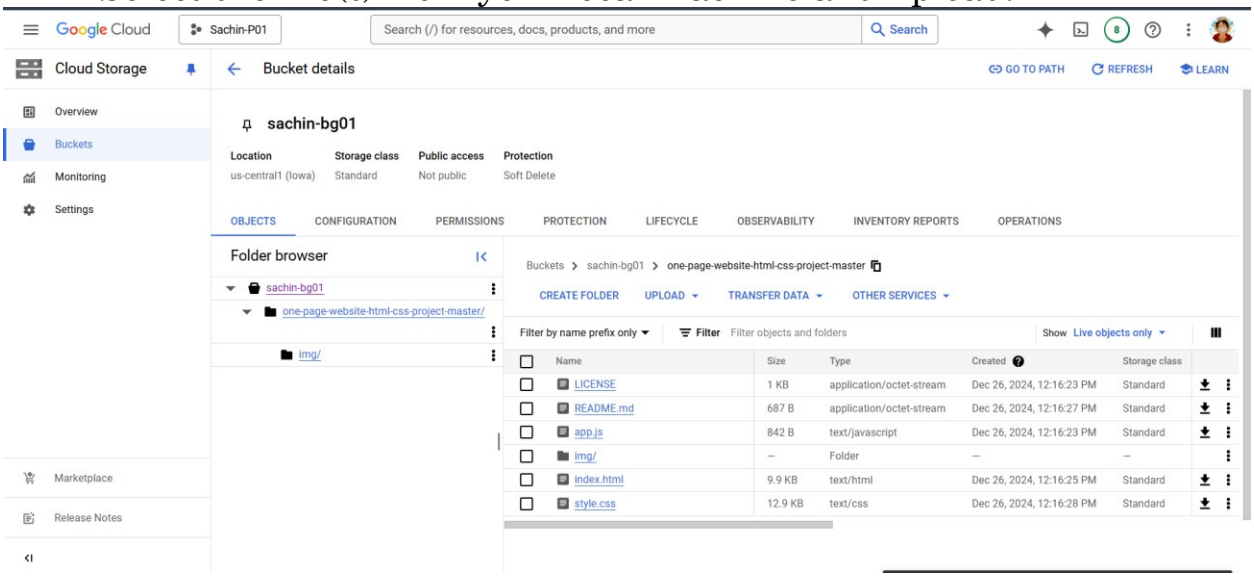


Step 4:-Create a Storage Bucket & Upload Files to the Bucket.

- Navigate to the Cloud Storage page.
- Click *Create Bucket*.
- 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.

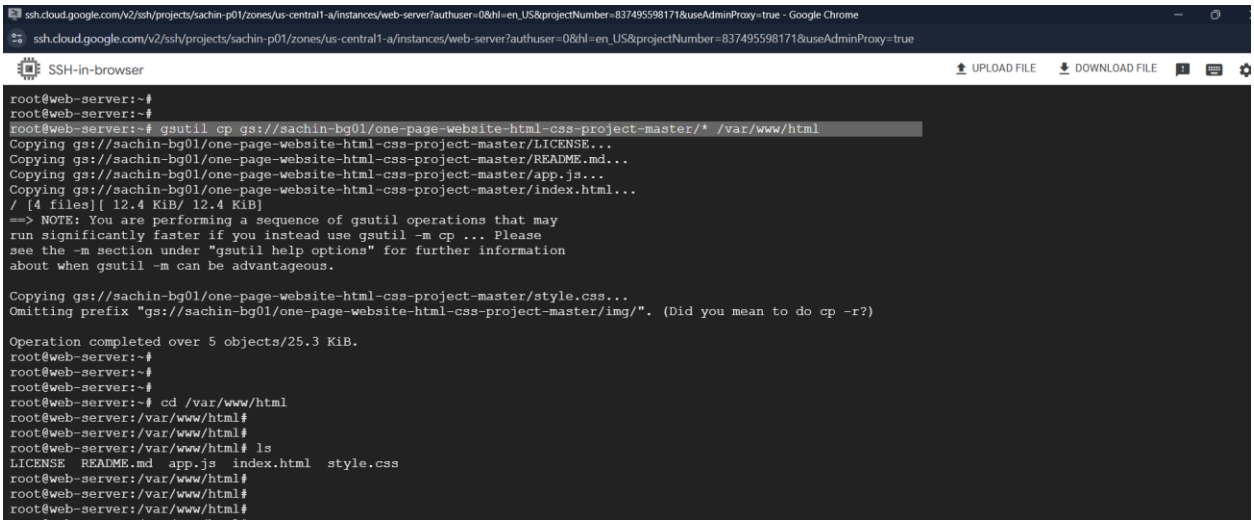


- Go to your bucket.
- Click *Upload Files* or *Upload Folder*.
- Select the file(s) from your local machine and upload.



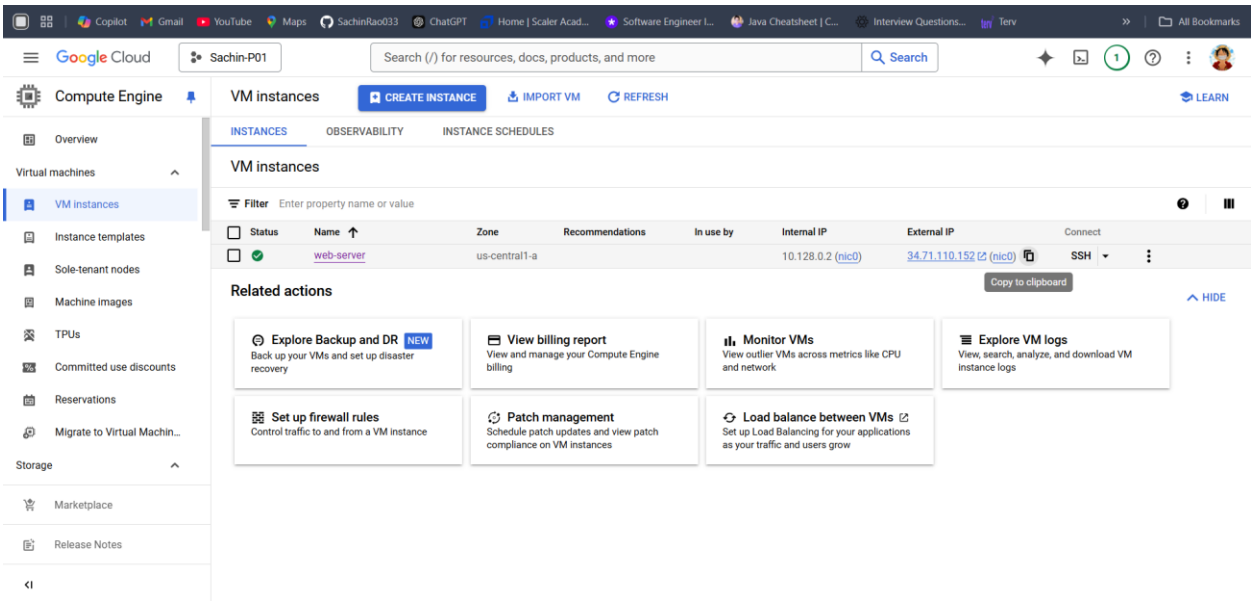
Step 5:-Copy File from Cloud Storage to VM Instance

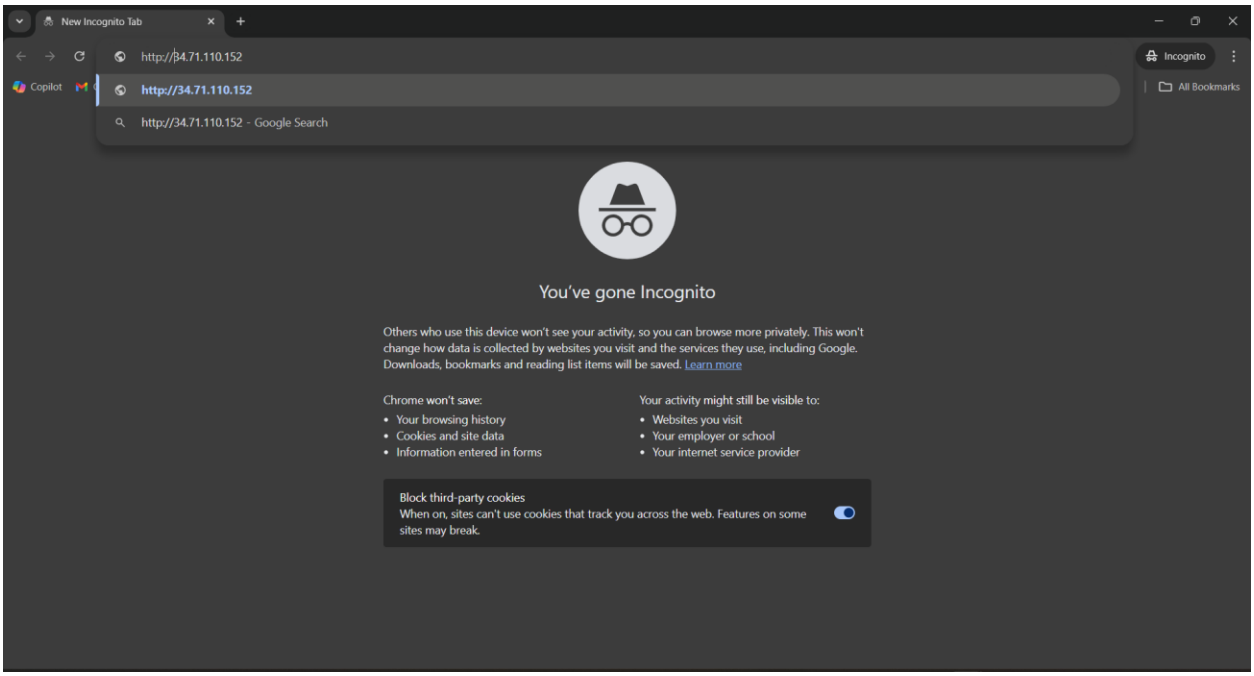
- Use the *gsutil* command to copy the file from the bucket to the VM:
  --"*gsutil cp gs://sachin-bg01/one-page-website/* /var/www/html*"
- -*sachin-bg01* with the name of storage bucket.
- -*one-page-website* with the name of the uploaded file.
- -*/var/www/html* with the destination directory on our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

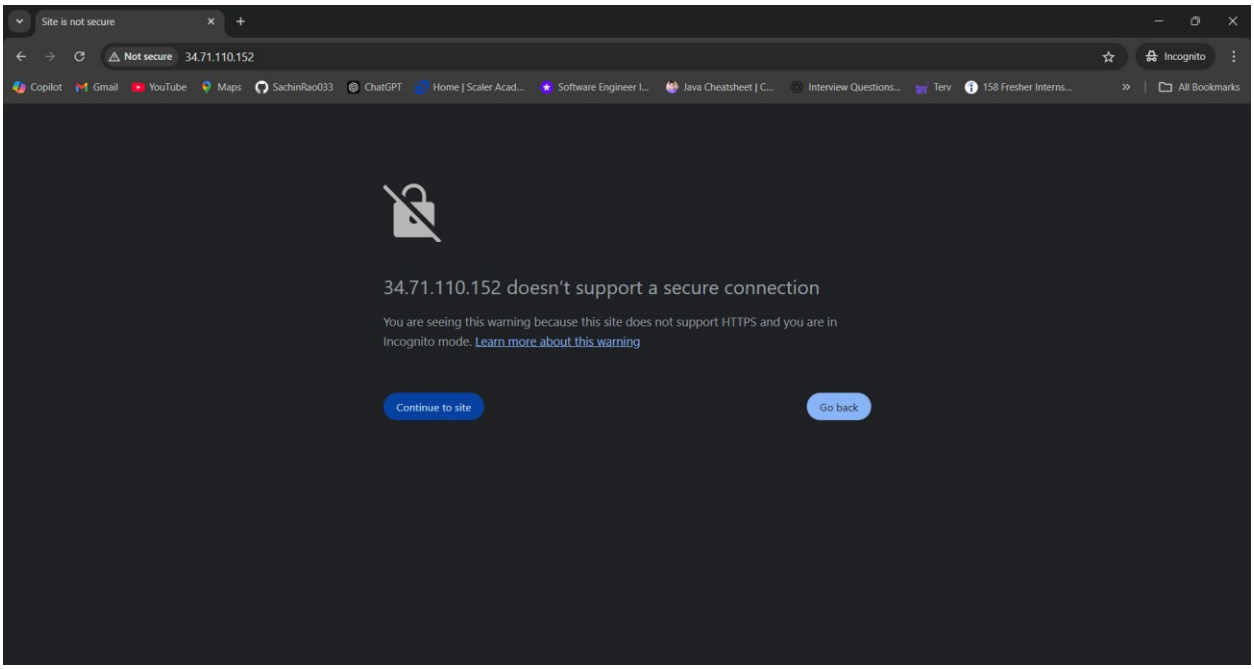


Step 5:- OUTPUT - Deploy Static Web Application.

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



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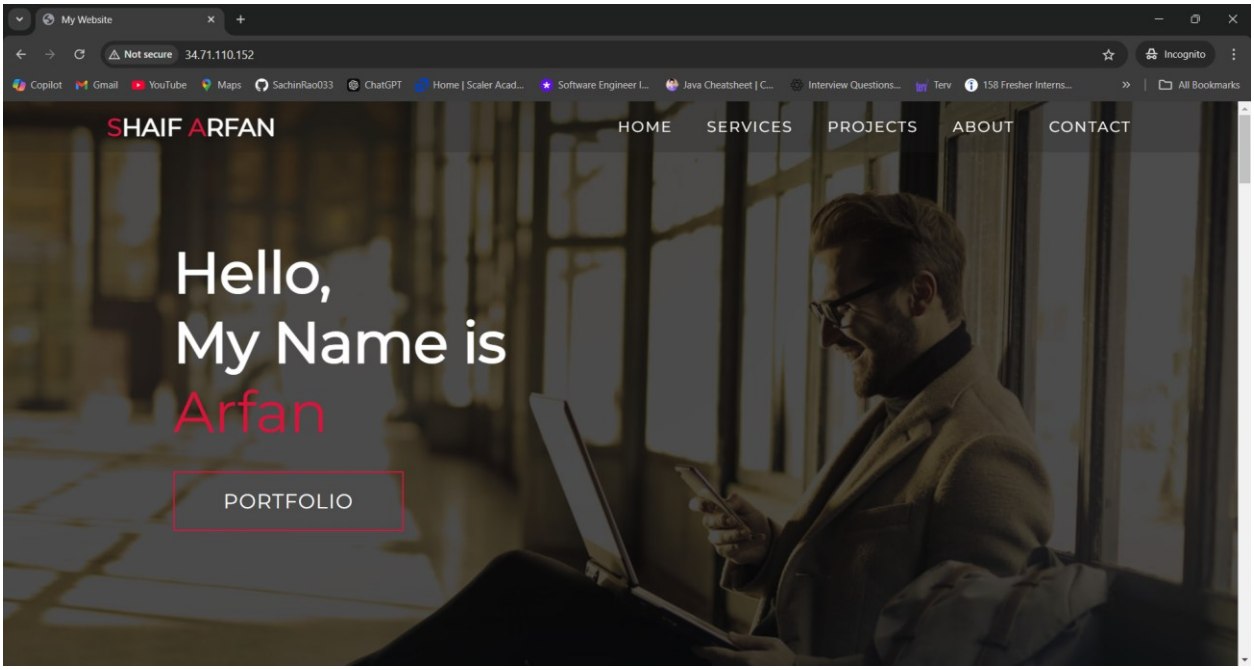
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