# Google cloud platform project

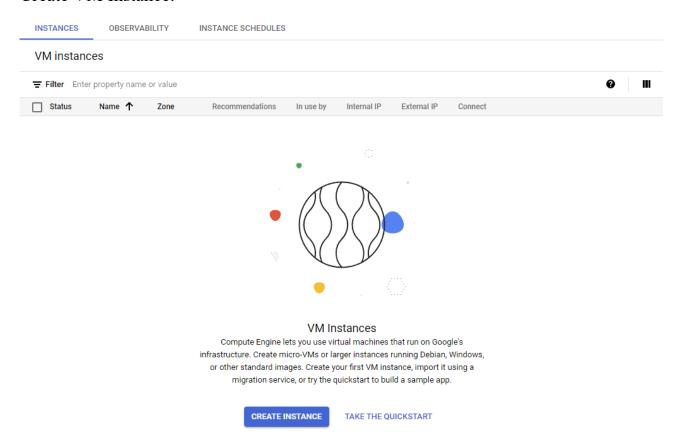
# Apache Web Server on Google Cloud By Faisal Alkhrayef

### **Guidelines:**

- 1. Make your own GCP account.
- 2. Enable compute engine
- 3. Create your first virtual machine

### VM settings:

### Create VM Instance:



### Boot disk settings:

### Boot disk @

Name	instance-01	
Туре	New balanced persistent disk	
Size	10 GB	
License type ②	Free	
Image	Debian GNU/Linux 12 (bookworm)	

### Allow HTTP and HTTPS traffic:

### Firewall @

Add tags and firewall rules to allow specific network traffic from the Internet

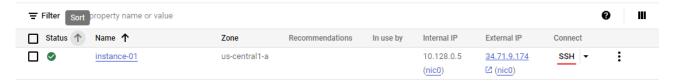
Allow HTTP traffic

Allow HTTPS traffic

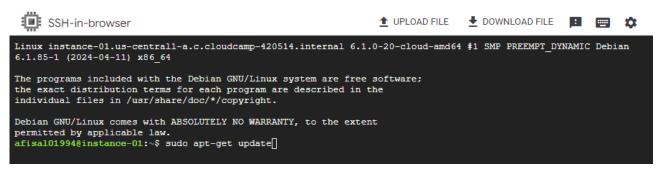
Allow Load Balancer Health Checks

### After creating the VM, run SSH:

#### VM instances



## Update packages: sudo apt-get update



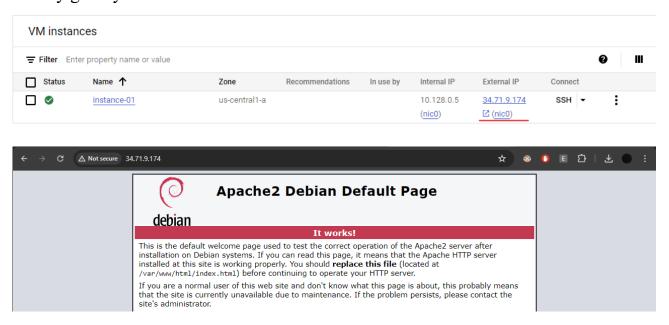
### install apache2 server: sudo apt-get install apache2 -y

```
SSH-in-browser
                                                                🛨 DOWNLOAD FILE 🔢 🚌 🏩
Get:11 https://deb.debian.org/debian bookworm-backports/main amd64 Packages.diff/Index [63.3 kB]
Get:15 https://deb.debian.org/debian bookworm-backports/main Sources T-2024-04-18-0807.10-F-2024-04-15-2018.42.
pdiff [1686 B]
Get:15 https://deb.debian.org/debian bookworm-backports/main Sources T-2024-04-18-0807.10-F-2024-04-15-2018.42.
pdiff [1686 B]
Get:16 https://deb.debian.org/debian bookworm-backports/main amd64 Packages T-2024-04-16-1405.22-F-2024-04-15-2
018.42.pdiff [1365 B]
Get:16 https://deb.debian.org/debian bookworm-backports/main amd64 Packages T-2024-04-16-1405.22-F-2024-04-15-2
Get:12 https://deb.debian.org/debian-security bookworm-security/main Sources [90.8 kB]
Get:13 https://deb.debian.org/debian-security bookworm-security/main amd64 Packages [154 kB]
Get:14 https://deb.debian.org/debian-security bookworm-security/main Translation-en [93.6 kB]
Fetched 1268 kB in 1s (1028 kB/s)
Reading package lists... Done
afisal01994@instance-01:~$ sudo apt-get install apache2 -y
```

### Check the server status: service --status-all



### Finally go to your external IP and click on it:



Note: if you want to replace the html, upload then replace it with already existing file located at /var/www/html/index.html

## After replacing the html:

### **Welcome to Google Cloud Platform**



#### What is Google Cloud Platform?

Google Cloud Platform (GCP) is a suite of cloud computing services offered by Google. It provides a range of on-demand services including:

- Compute: Create and manage virtual machines (VMs)
   Storage: Store your data securely and reliably
   Networking: Connect your applications and resources
   Big Data: Analyze large datasets
   Machine Learning: Build and train machine learning models
   And many morel

#### What are Virtual Machines (VMs)?

A virtual machine (VM) is a software computer that emulates a physical computer. It allows you to run an operating system and applications on a virtualized server. VMs offer several benefits including:

- Scalability: Easily scale your resources up or down as needed
   Cost-effectiveness: Pay only for the resources you use
   Flexibility: Deploy different types of VMs for different applications
   Isolation: Applications running on VMs are isolated from each other

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Hope this documentation helps.