



Google Cloud Platform project

Apache Web Server on Google Cloud

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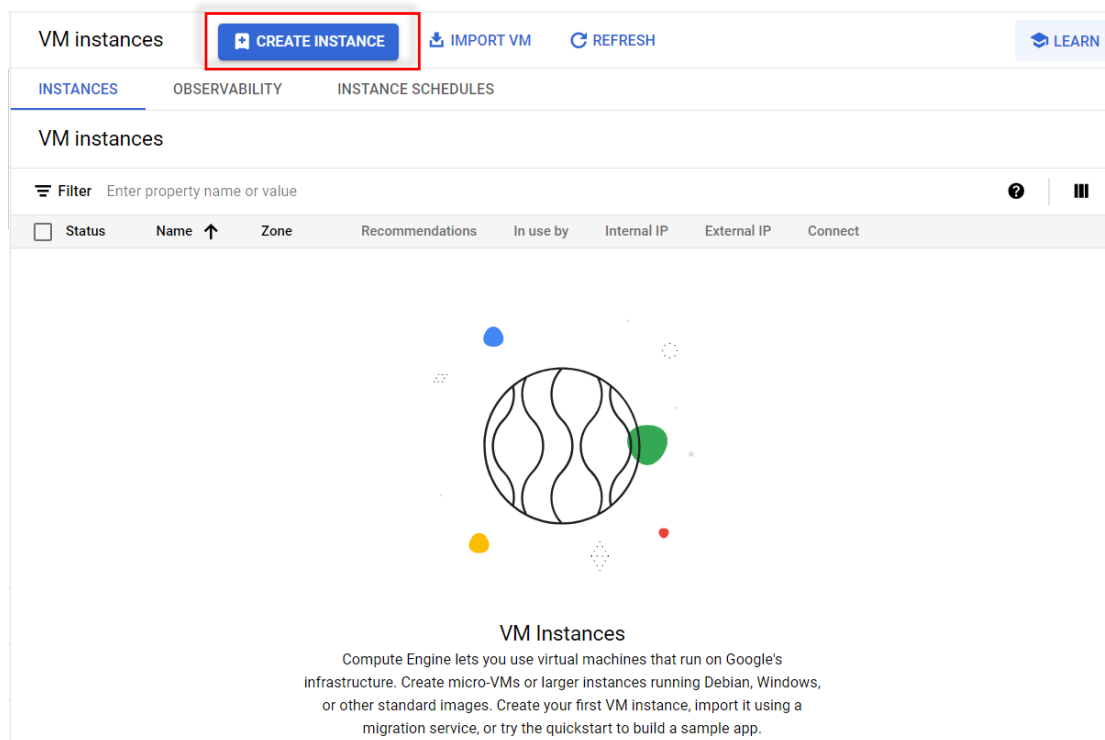
Guidelines:

- First make your own GCP account.
- second after you make your account enable compute engine.
- third create your first virtual machine.

Hands-on-deck \$:~


VM settings:

here you make your first VM.



The boot disk settings.

Boot disk ?

Name	web
Type	New balanced persistent disk
Size	10 GB
License type ?	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

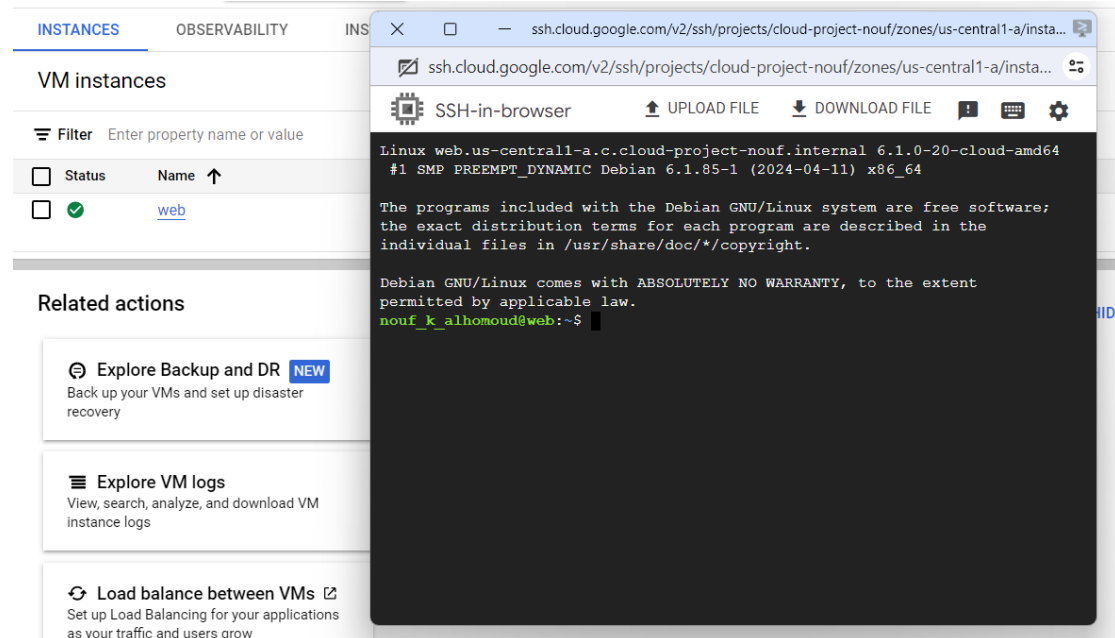
- ☒ Allow HTTP traffic
- ☒ Allow HTTPS traffic
- ☐ Allow Load Balancer Health Checks

VM SSH:

After we create our first VM, we'll run SSH from clicking the SSH button.

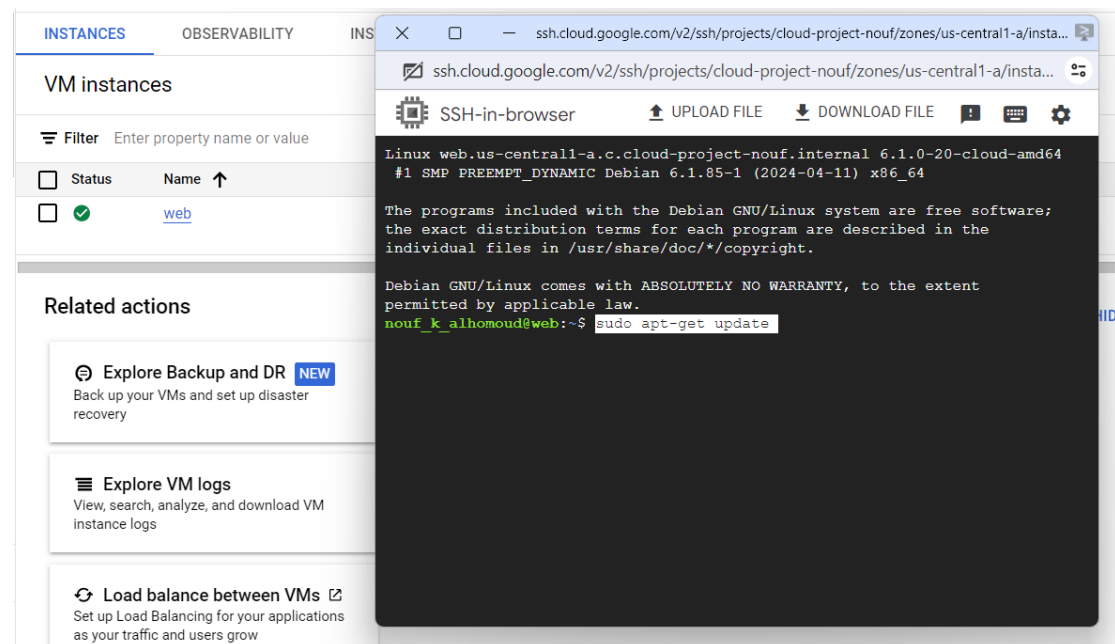
VM instances							
 Filter Enter property name or value  							
<input type="checkbox"/> Status	Name 	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/> 	web	us-central1-a			10.128.0.4 (nic0)	130.211.216.54 (nic0)	<div><div>SSH</div></div> 

Now we open the SSH window.



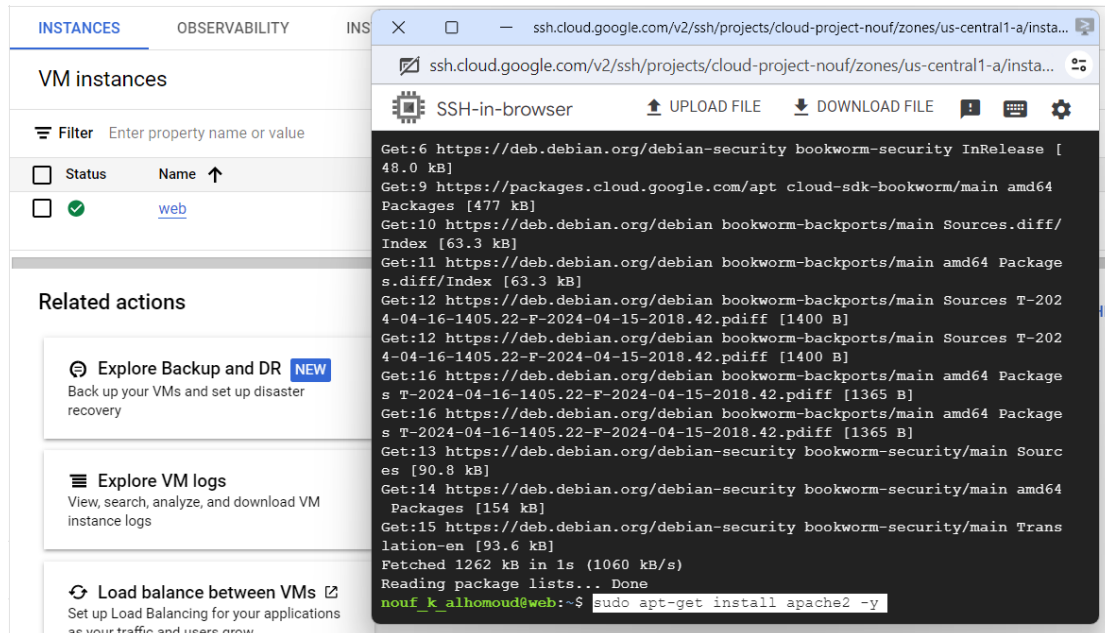
First thing is to update packages by the cmd:

`sudo apt-get update`



After that install apache2 server the cmd:

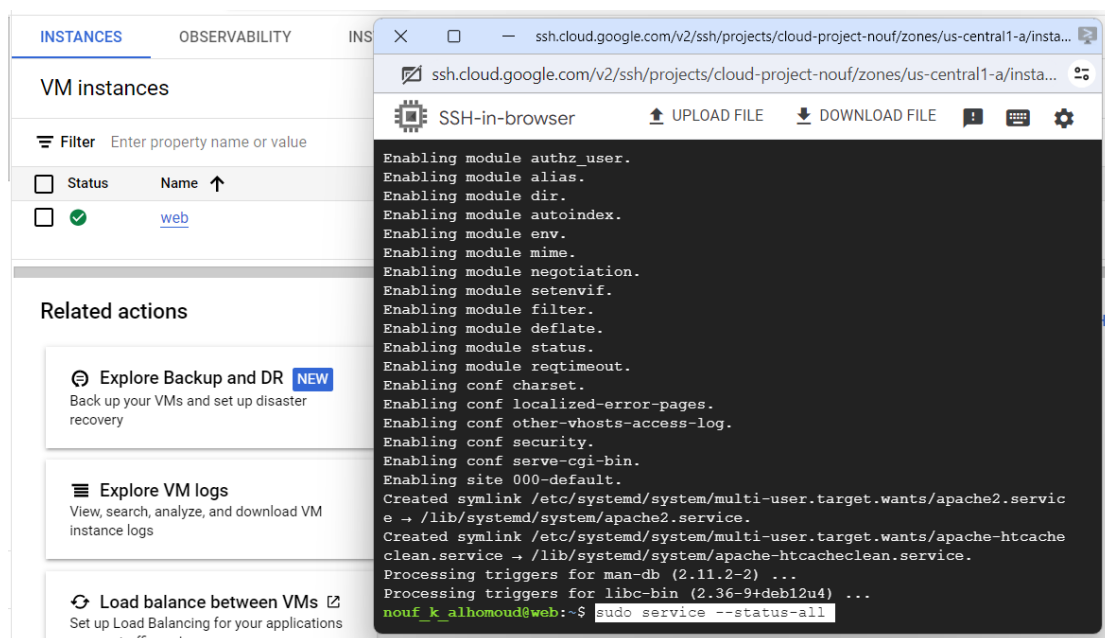
`sudo apt-get install apache2 -y`



The screenshot shows the Google Cloud Platform console. On the left, the 'INSTANCES' tab is active, displaying a table of VM instances. One instance named 'web' is listed with a status of 'Running'. Below the table, there are 'Related actions' such as 'Explore Backup and DR', 'Explore VM logs', and 'Load balance between VMs'. On the right, an 'SSH-in-browser' window is open, showing the terminal output of the command `sudo apt-get install apache2 -y`. The output shows the progress of downloading and installing the apache2 package from the Debian repositories.

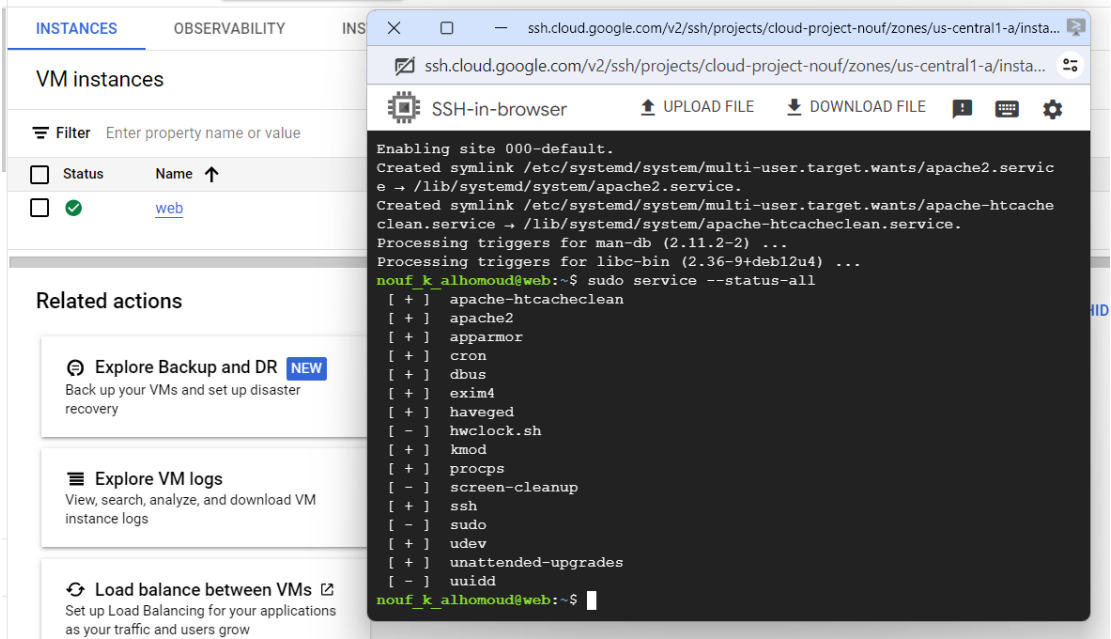
we install apache2 server successfully but how to check if the server is working the cmd:

`sudo service --status-all`



The screenshot shows the Google Cloud Platform console. On the left, the 'INSTANCES' tab is active, displaying a table of VM instances. One instance named 'web' is listed with a status of 'Running'. Below the table, there are 'Related actions' such as 'Explore Backup and DR', 'Explore VM logs', and 'Load balance between VMs'. On the right, an 'SSH-in-browser' window is open, showing the terminal output of the command `sudo service --status-all`. The output shows the status of various system services, including 'apache2', which is listed as 'enabled; running'.

The check is completed.




Note: if you have index.html upload it and move it to /var/www/html

Finally, after you upload your website now go to your external IP and click on it.

External IP

130.211.216.54 [↗](#) (nic0)

Welcome to Google Cloud Platform


Google Cloud

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 more!

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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I hope that the project will help you.