Google Cloud Platform Virtual Machine

This document describes instructions for creating and using a Google Cloud Platform virtual machine instance.

A personal Google account is required. You will have to enter your credit card information to create an account (don't worry—you won't be charged).

Preliminary

Log into the Google Cloud Platform console using your personal Google account.

https://cloud.google.com/gcp

If you don't have a Google account, create one (they cost nothing).

Create a trial account for Google Cloud Platform. Then click the "Go To Console" button on the page above.

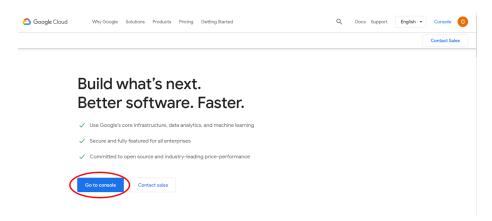


Figure 1: Go To Console

Configuration

This section describes the process of creating a virtual machine (VM) instance. This VM uses Linux/Ubuntu as an operating system.

Creating a Google Project

The VM instance requires a Google Project to live under.

To create a new project, click the project drop-down on the top bar.



Figure 2: Project Menu

From the pop-up, click "NEW PROJECT" on the upper-right hand corner.



Figure 3: New Project

Give the project a unique name and use the default settings before clicking the "Create" button.

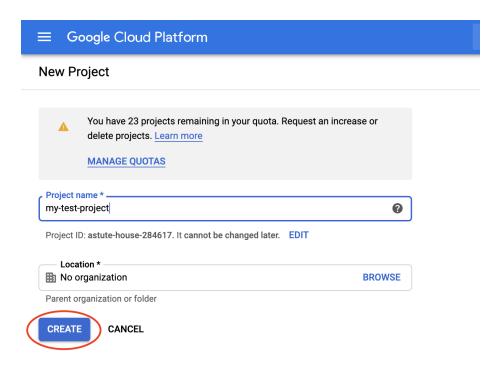


Figure 4: New Project Form

Once the project is created, navigate to that project from the top menu bar.



Figure 5: Choose Your Project

Creating Virtual Machine Instance

Once a Google Project is created, from the hamburger menu on the left-hand side of the console, select "Compute Engine" then "VM Instances".

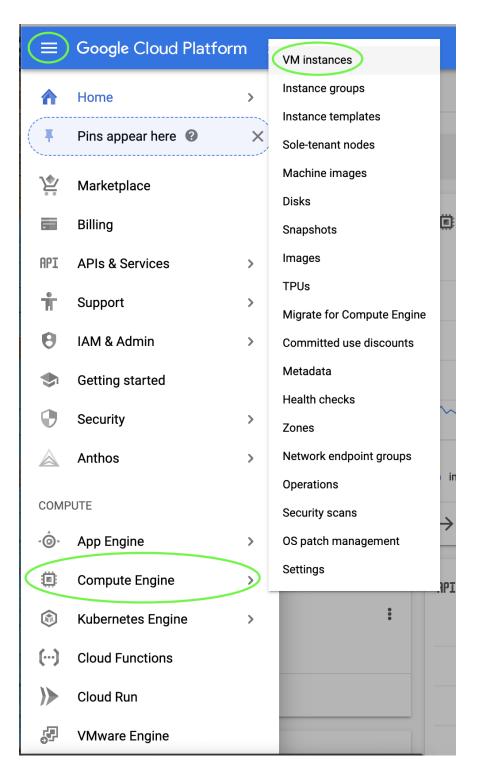


Figure 6: Make VM $_4$

Click the button shown to create a new VM instance.

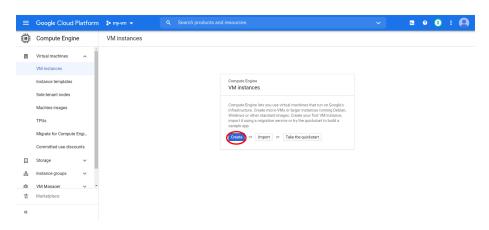


Figure 7: Create Instance

Give the VM instance a unique name, then click "Create". Use the default settings. NOTE: Boot Disk must be set to "Debian GNU/Linux 10 (buster)"

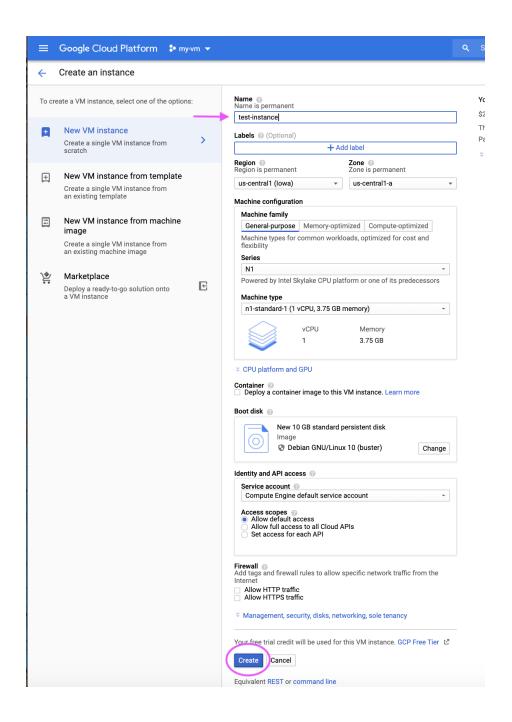


Figure 8: New Instance Form

${\bf Accessing} \ {\bf VM}$

This section describes the steps necessary to open a remote terminal window in your browser.

To open ssh from the browser window, choose the shh botton on your VM instance.

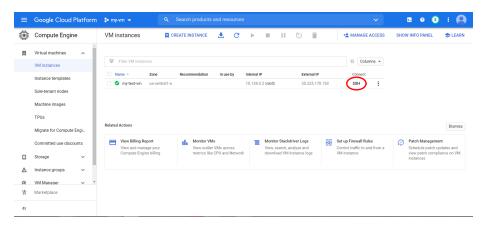


Figure 9: connect to ssh

The resulting terminal window should be used to interact with your VM instance remotely!

```
d_shaked2643@my-test-vm: ~

a ssh.cloud.google.com/projects/my-vm-284616/zones/us-central1-a/instances/my-test-vm?useAdm...

Connected, host fingerprint: ssh-rsa 0 99:2F:88:DD:C3:C9:E0:8B:92:52:C3:3A:2F:AA

D2:D5:B3:27:4B:1B:09:14:C9:6B:59:55:DA:5D:C5:EA:1B:111

Linux my-test-vm 4.19.0-9-cloud-amd64 #1 SMP Debian 4.19.118-2+deb10u1 (2020-06-07) x86_64

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Mon Jul 27 17:38:32 2020 from 74.125.177.38

d_shaked2643@my-test-vm:-$
```

Figure 10: Terminal Window

Once you are in the ssh window, run the following command:

```
cd ~ && mkdir -p Desktop Documents Downloads && \
touch Desktop/{01-pwd.png,02-ls.png,head-tail.png,\
mkdir-move-cd.png,pipes.png,sample_file.txt,\
another_file.txt,starting-wsl.png}
```

This will load content into your home folder, making it easier to follow Case 0.4.