

Setting up a Compute Engine VM on the Google Cloud Platform

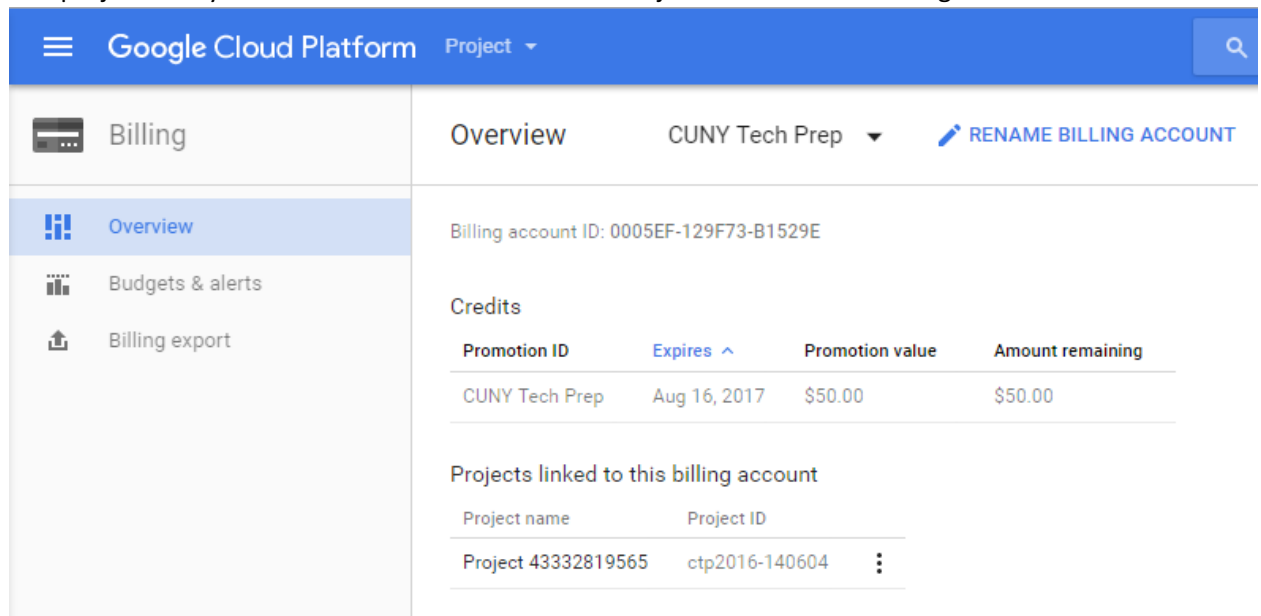
By: Robinson Collado

I. Receiving Credits

1. Visit: <http://goo.gl/gcpedu/d8K7RY>
2. Input your first name, last name and email
3. Log into your school email account and wait for an email containing the verification link
4. Wait for an email containing the coupon code
5. Click the "Accept and continue"

II. Create a Project and Link the credits to Billing

1. Go to the blue menu bar on top
2. Click on the drop down menu that says "Project"
3. Click on "Create project"
4. Type in a name for your new project
5. Go to the blue menu bar, under the project drop down menu click on "View more projects" (the project I created didn't appear under recent project so I had to click on this button to get a complete list of all my projects), click on your new project you just made
6. Go to the blue menu bar, open the sidebar and click "Billing"
7. The project that you made should be listed under "Projects linked to this billing account".



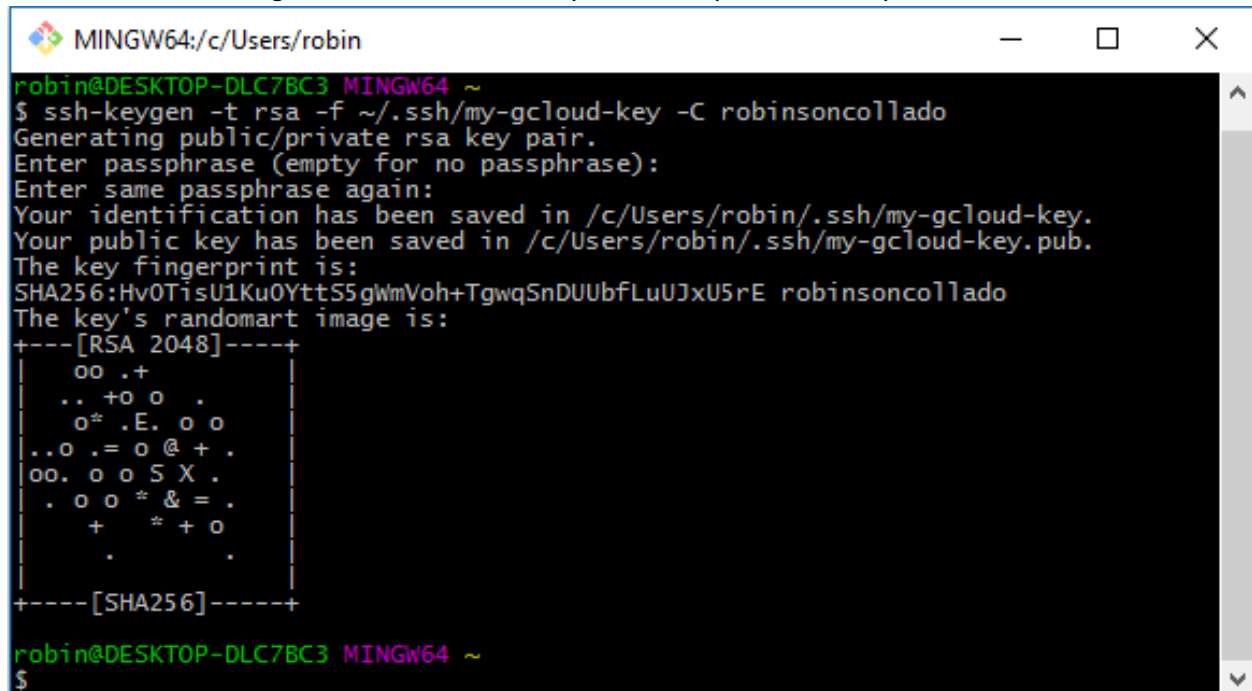
The screenshot shows the Google Cloud Platform interface. At the top, there's a blue header with the Google Cloud Platform logo and a search icon. Below the header, there's a sidebar with navigation options: Billing, Overview, Budgets & alerts, and Billing export. The main content area is titled "Overview" and shows the billing account ID: 0005EF-129F73-B1529E. Below this, there's a section for "Credits" with a table showing the CUNY Tech Prep promotion. At the bottom, there's a section for "Projects linked to this billing account" with a table showing the project 43332819565.

Promotion ID	Expires	Promotion value	Amount remaining
CUNY Tech Prep	Aug 16, 2017	\$50.00	\$50.00

Project name	Project ID
Project 43332819565	ctp2016-140604

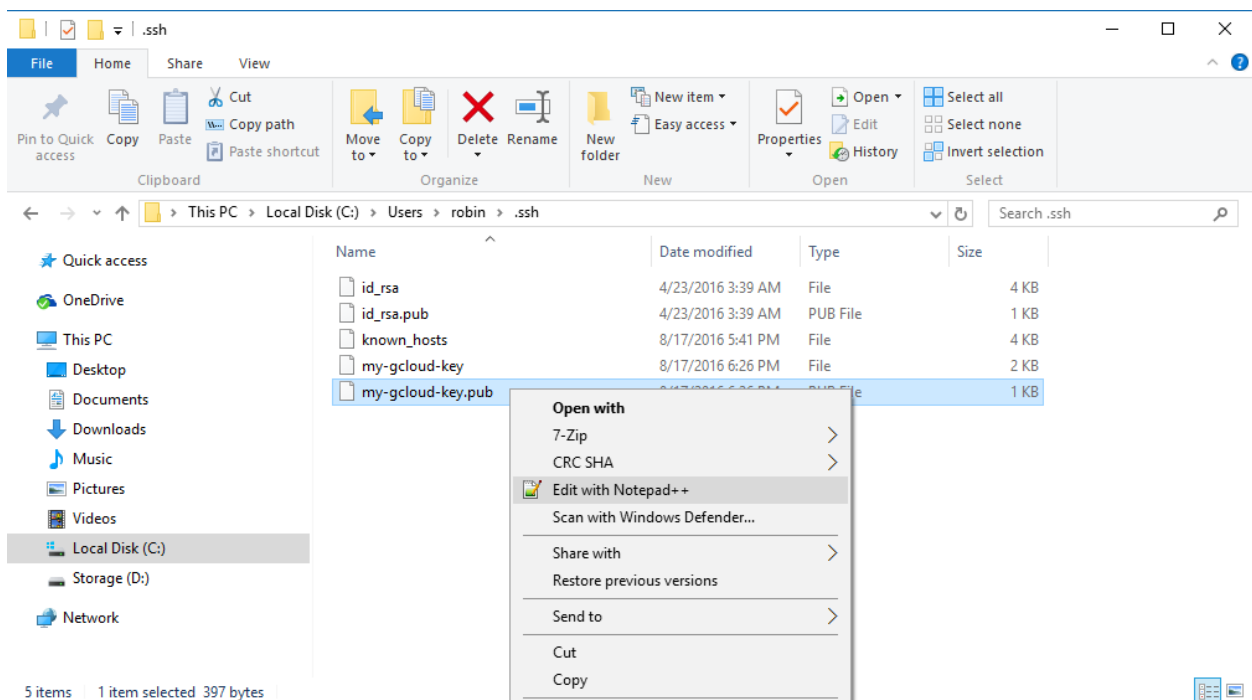
III. Create SSH Keys

1. Log into Ubuntu 16.04 LTS terminal (or Gitbash on Windows)
2. Type: `ssh-keygen -t rsa -f ~/.ssh/my-gcloud-key -C robinsoncollado`
3. Go to this page: <https://cloud.google.com/compute/docs/quickstart-linux> and follow the instruction to get to the section where you could input the ssh key under Metadata.



```
MINGW64:/c/Users/robin
robin@DESKTOP-DLC7BC3 MINGW64 ~
$ ssh-keygen -t rsa -f ~/.ssh/my-gcloud-key -C robinsoncollado
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/robin/.ssh/my-gcloud-key.
Your public key has been saved in /c/Users/robin/.ssh/my-gcloud-key.pub.
The key fingerprint is:
SHA256:Hv0TisU1Ku0YttS5gWmVoh+TgwqSnDUUbfLuUJxU5rE robinsoncollado
The key's randomart image is:
+---[RSA 2048]---+
|  oo .+                |
| .. +o o .            |
| o* .E. o o           |
| ..o .= o @ + .       |
| oo. o o S X .        |
| . o o * & = .        |
| +   * + o            |
| .                    |
+---[SHA256]---+
robin@DESKTOP-DLC7BC3 MINGW64 ~
$
```

How to locate your **PUBLIC SSH KEY** on Windows:



IV. Create the instance

Compute Engine - ctp2016 - Mozilla Firefox

beta_gcloud | CTP2... x | Google Docs - creat... x | GCloudProgression ... x | Mail - ROE

https://console.cloud.google.com/compute/instancesAdd?project=ctp2016-140604&quickstart=

Google Cloud Platform ctp2016

Compute Engine

VM instances

- Instance groups
- Instance templates
- Disks
- Snapshots
- Images
- Metadata
- Health checks
- Zones
- Operations
- Quotas
- Settings

Create an instance

Name ?

instance-1

An instance with this name already exists

Zone ?

us-central1-b

Machine type

micro (1 shared vCPU) 0.6 GB memory [Customize](#)

Boot disk ?

New 10 GB standard persistent disk

Image

Debian GNU/Linux 8 (jessie) [Change](#)

Identity and API access ?

Service account ?

Compute Engine default service account

Access scopes ?

- ☒ Allow default access
- ☐ Allow full access to all Cloud APIs
- ☐ Set access for each API

Firewall ?

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

- ☒ Allow HTTP traffic
- ☒ Allow HTTPS traffic

[Management, disk, networking, SSH keys](#)

You will be billed for this instance. [Learn more](#)

[Create](#) [Cancel](#)

Equivalent [REST](#) or [command line](#)

V. Login to the instance via SSH on your Host machines command line and the SSH key generated in step 3

On Linux:

```
robinsoncollado@instance-1: ~
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vim (vim) in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vimdiff (vimdiff) in a
uto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rvim (rvim) in auto mo
de
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rview (rview) in auto
mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vi (vi) in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/view (view) in auto mo
de
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/ex (ex) in auto mode
robinson@robinson-P15xEMx:~/.ssh$ vim my-gcloud-key
robinson@robinson-P15xEMx:~/.ssh$ vim my-gcloud-key
my-gcloud-key      my-gcloud-key.pub
robinson@robinson-P15xEMx:~/.ssh$ vim my-gcloud-key
my-gcloud-key      my-gcloud-key.pub
robinson@robinson-P15xEMx:~/.ssh$ vim my-gcloud-key.pub
robinson@robinson-P15xEMx:~/.ssh$ ssh -i ~/.ssh/my-gcloud-key robinsoncollado@146.148.54
.239
The authenticity of host '146.148.54.239 (146.148.54.239)' can't be established.
ECDSA key fingerprint is SHA256:TMMUCe0USBu30ZSs4h0HXAB1oezpz33dnwthnIAoYTs.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '146.148.54.239' (ECDSA) to the list of known hosts.

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.
robinsoncollado@instance-1:~$
```

On Gitbash:

```
robinsoncollado@instance-1: ~
robin@DESKTOP-DLC7BC3 MINGW64 ~
$ ssh -i ~/.ssh/my-gcloud-key robinsoncollado@146.148.54.239

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: Wed Aug 17 16:37:12 2016 from 77.119.128.176.wireless.dyn.drei.com
robinsoncollado@instance-1:~$
```