

Manual



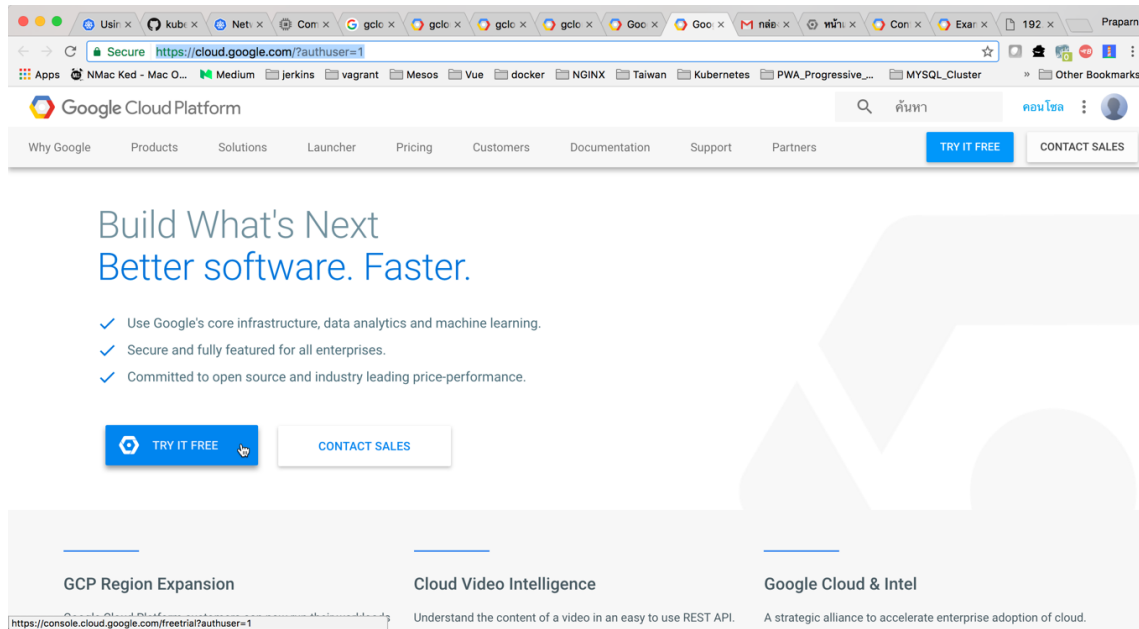
User GoogleCloud (Free 300 Dollars)

Prerequisite

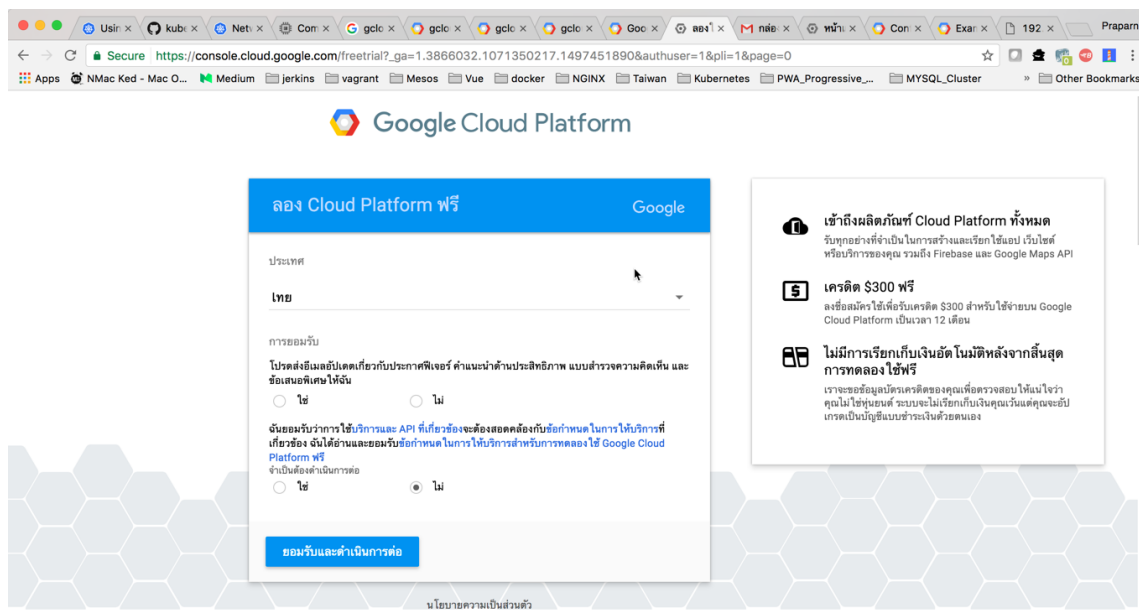
Recommend to login on google chrome with gmail account.

Register for Google Cloud

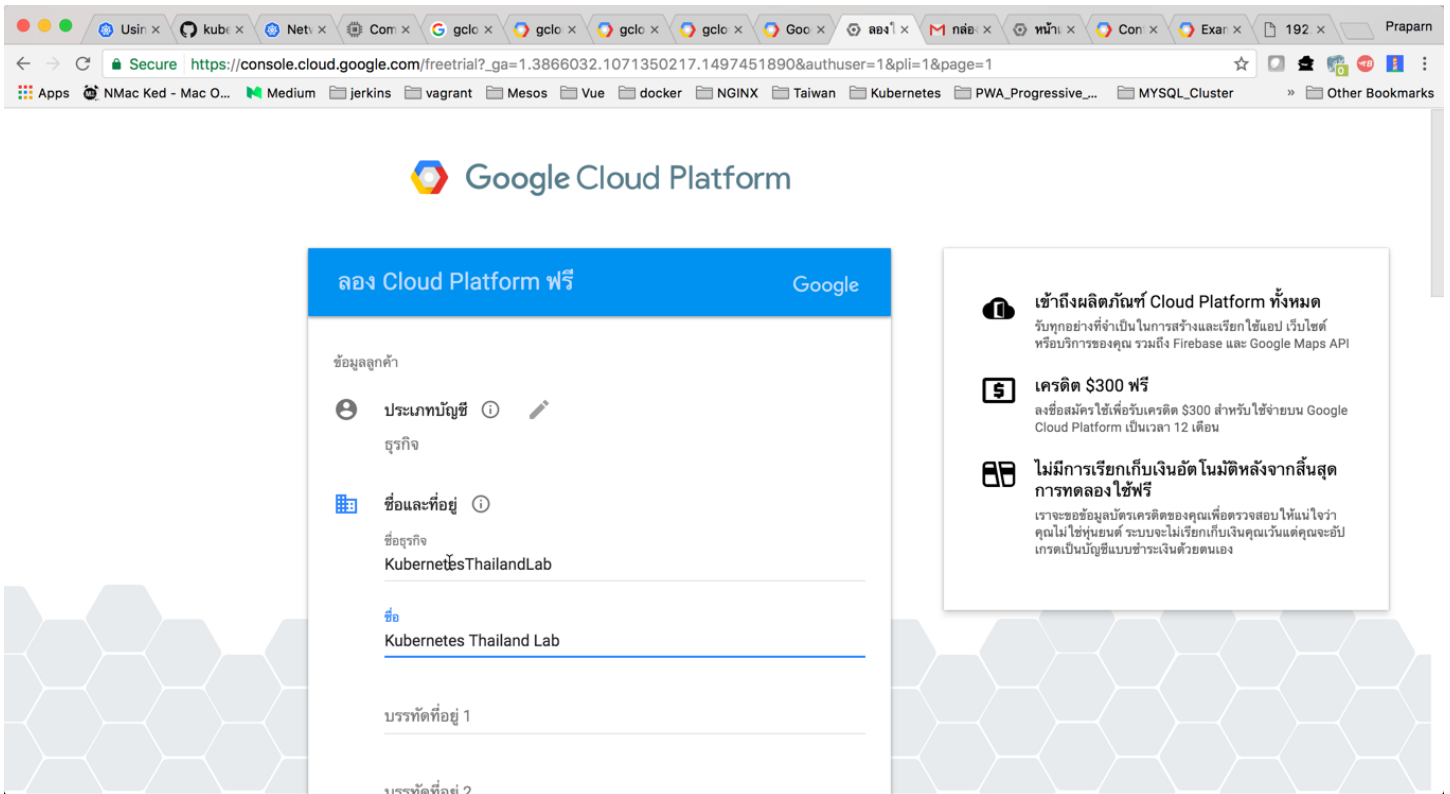
1. Open url: <https://cloud.google.com> and "Try IT FREE"



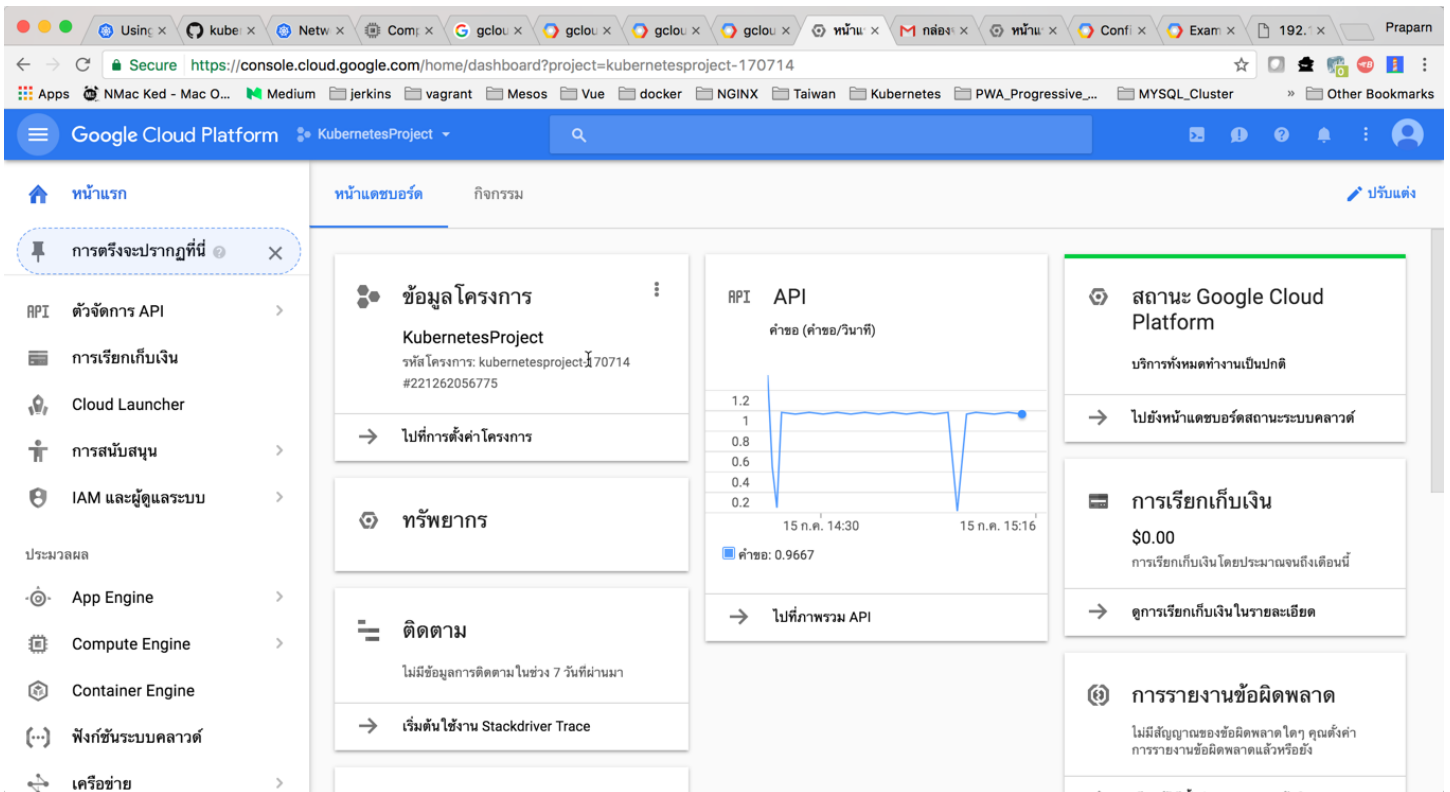
2. Select Country and Access Condition



3. Input require data and accept condition (Need to input credit card/some confidential data)



4. After finished. Choose to create new project name "KubernetesProject" and record project code for reference




Install GCloud Tool

Following Gcloud Instruction/Downlad-install with step like below

1. Install gcloud tool

Ref: <https://cloud.google.com/sdk/downloads>



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Installing Cloud SDK

This page contains instructions for downloading and installing Google Cloud SDK.

System requirements

Cloud SDK runs on Linux, Mac OS X and Windows, and requires Python 2.7.x. Some tools bundled with Cloud SDK have additional requirements. For example, Java tools for Google App Engine development require Java 1.7 or later.

Installation options

Do one of the following to install Cloud SDK:

- Download a [versioned archive](#) of any release, including previous releases
- Run the [interactive installer](#) to download and install the latest release
- Use [apt-get](#) (Debian and Ubuntu only) to download and install the latest release
- Use [yum](#) (Red Hat and CentOS) to download and install the latest release

These installation methods install the default Cloud SDK components, which include `gcloud`, `gsutil` and `bq` command-line tools. You can [install additional components](#) using the `gcloud components install` command, or by installing the appropriate [deb](#) or [RPM](#) packages.

Versioned archives

Cloud SDK provides downloadable, versioned archives for each release. Each versioned archive contains a self-contained installation of Cloud SDK in a directory named `google-cloud-sdk` that can be copied to any location on your file system.

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System requirements

Installation options

Versioned archives

Previous versions

Interactive installer

Non-interactive (silent) deployment

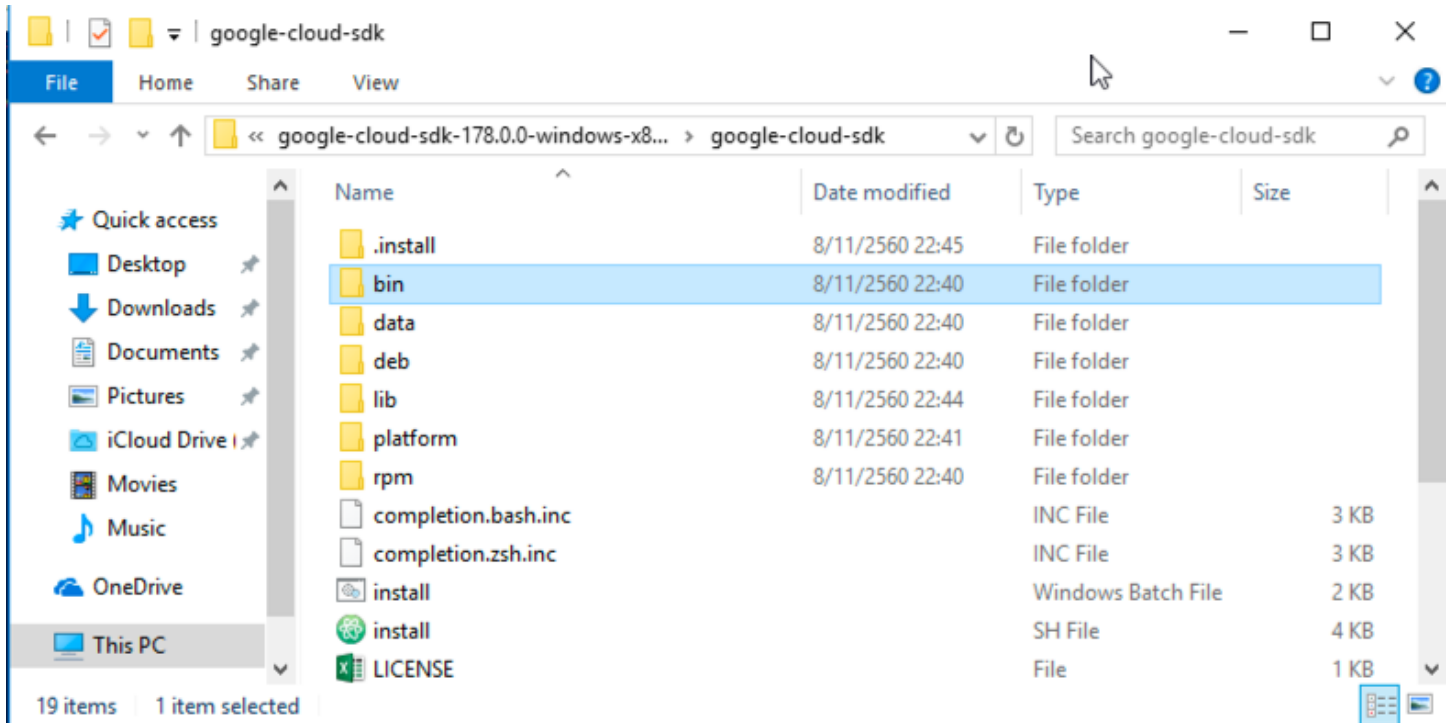
Managing an installation

apt-get (Debian and Ubuntu only)

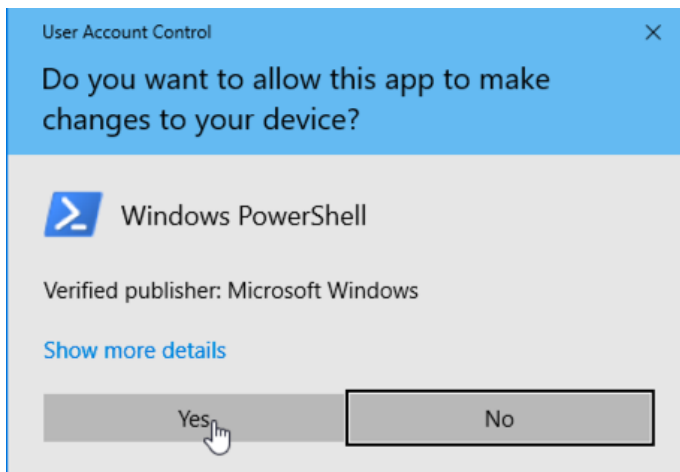
yum (Red Hat and CentOS)

1.1 For windows (Google Cloud SDK)

1.1.1 Extract google-cloud-sdk-178.0.0-windows zip file to folder



1.1.2 Run powershell as "Administrator" and run install.bat




```
PS C:\kubernetes\google-cloud-sdk-178.0.0-windows-x86_64-bundled-python\google-cloud-sdk> .\install.bat
Welcome to the Google Cloud SDK!
```

To help improve the quality of this product, we collect anonymized usage data and anonymized stacktraces when crashes are encountered; additional information is available at <<https://cloud.google.com/sdk/usage-statistics>>. You may choose to opt out of this collection now (by choosing 'N' at the below prompt), or at any time in the future by running the following command:

```
gcloud config set disable_usage_reporting true
```

Do you want to help improve the Google Cloud SDK (Y/n)? n

Your current Cloud SDK version is: 178.0.0
The latest available version is: 178.0.0

Components			
Status	Name	ID	Size
Not Installed	App Engine Go Extensions	app-engine-go	98.9 MiB
Not Installed	Cloud Bigtable Command Line Tool	cbt	4.0 MiB
Not Installed	Cloud Bigtable Emulator	bigtable	3.5 MiB
Not Installed	Cloud Datalab Command Line Tool	datalab	< 1 MiB
Not Installed	Cloud Datastore Emulator	cloud-datastore-emulator	17.7 MiB
Not Installed	Cloud Datastore Emulator (Legacy)	gcd-emulator	38.1 MiB
Not Installed	Cloud Pub/Sub Emulator	pubsub-emulator	33.2 MiB
Not Installed	Emulator Reverse Proxy	emulator-reverse-proxy	14.5 MiB
Not Installed	Google Container Registry's Docker credential helper	docker-credential-gcr	2.1 MiB
Not Installed	gcloud Alpha Commands	alpha	< 1 MiB
Not Installed	gcloud Beta Commands	beta	< 1 MiB
Not Installed	gcloud app Java Extensions	app-engine-java	116.0 MiB
Not Installed	gcloud app PHP Extensions	app-engine-php	19.1 MiB
Not Installed	gcloud app Python Extensions	app-engine-python	6.2 MiB
Not Installed	kubectl	kubectl	12.3 MiB
Installed	BigQuery Command Line Tool	bq	< 1 MiB
Installed	Cloud SDK Core Libraries	core	7.4 MiB
Installed	Cloud Storage Command Line Tool	gsutil	3.3 MiB

To install or remove components at your current SDK version [178.0.0], run:

```
$ gcloud components install COMPONENT_ID
$ gcloud components remove COMPONENT_ID
```

To update your SDK installation to the latest version [178.0.0], run:

```
$ gcloud components update
```

Update %PATH% to include Cloud SDK binaries? (Y/n)?

- 1.1.3 Open command prompt and access to path "bin" and run "gcloud init" and Logon system for initial gcloud and following instruction until end

```
C:\kubernetes>cd google-cloud-sdk-178.0.0-windows-x86_64-bundled-python
```

```
C:\kubernetes\google-cloud-sdk-178.0.0-windows-x86_64-bundled-python>cd google-cloud-sdk
```

```
C:\kubernetes\google-cloud-sdk-178.0.0-windows-x86_64-bundled-python\google-cloud-sdk>cd bin
```

```
C:\kubernetes\google-cloud-sdk-178.0.0-windows-x86_64-bundled-python\google-cloud-sdk\bin>gcloud init
Welcome! This command will take you through the configuration of gcloud.
```

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:

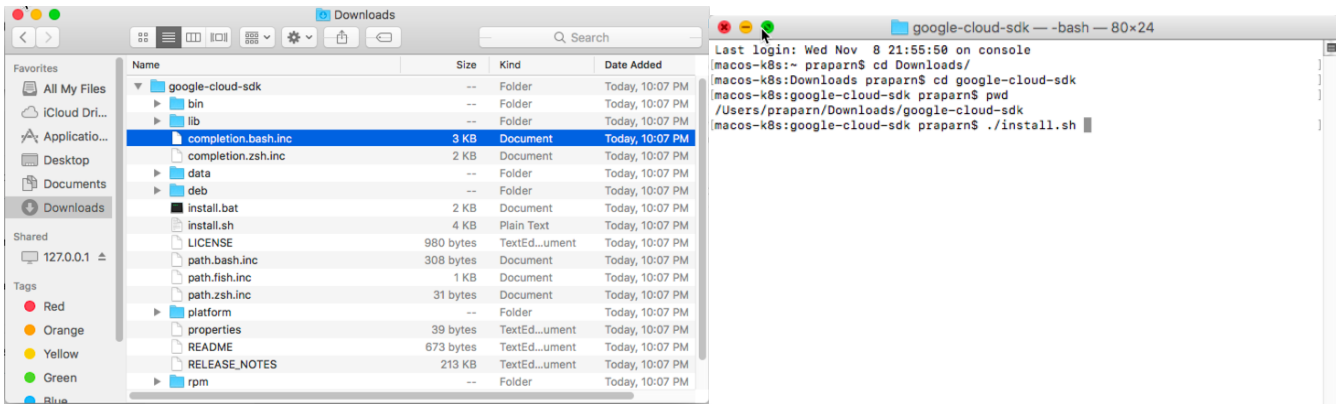
```
gcloud init --skip-diagnostics
```

Network diagnostic detects and fixes local network connection issues.

Checking network connection.../

1.2 For MAC OS X

1.2.1 Extract folder "google-cloud-sdk" and run "install.sh"




```
google-cloud-sdk — Python • install.sh — 80x24
Last login: Wed Nov  8 21:55:50 on console
[macos-k8s:~ praparn$ cd Downloads/
[macos-k8s:Downloads praparn$ cd google-cloud-sdk
[macos-k8s:google-cloud-sdk praparn$ pwd
/Users/praparn/Downloads/google-cloud-sdk
[macos-k8s:google-cloud-sdk praparn$ ./install.sh
Welcome to the Google Cloud SDK!

To help improve the quality of this product, we collect anonymized usage data
and anonymized stacktraces when crashes are encountered; additional information
is available at <https://cloud.google.com/sdk/usage-statistics>. You may choose
to opt out of this collection now (by choosing 'N' at the below prompt), or at
any time in the future by running the following command:

    gcloud config set disable_usage_reporting true

Do you want to help improve the Google Cloud SDK (Y/n)? n
```

Your current Cloud SDK version is: 178.0.0
The latest available version is: 178.0.0

Components			
Status	Name	ID	Size
Not Installed	App Engine Go Extensions	app-engine-go	97.7 MiB
Not Installed	Cloud Bigtable Command Line Tool	cbt	4.0 MiB
Not Installed	Cloud Bigtable Emulator	bigtable	3.5 MiB
Not Installed	Cloud Datalab Command Line Tool	datalab	< 1 MiB
Not Installed	Cloud Datastore Emulator	cloud-datastore-emulator	17.7 MiB
Not Installed	Cloud Datastore Emulator (Legacy)	gcd-emulator	38.1 MiB
Not Installed	Cloud Pub/Sub Emulator	pubsub-emulator	33.2 MiB
Not Installed	Emulator Reverse Proxy	emulator-reverse-proxy	14.5 MiB
Not Installed	Google Container Local Builder	container-builder-local	3.7 MiB
Not Installed	Google Container Registry's Docker credential helper	docker-credential-gcr	2.2 MiB
Not Installed	gcloud Alpha Commands	alpha	< 1 MiB
Not Installed	gcloud Beta Commands	beta	< 1 MiB
Not Installed	gcloud app Java Extensions	app-engine-java	116.0 MiB
Not Installed	gcloud app PHP Extensions	app-engine-php	21.9 MiB
Not Installed	gcloud app Python Extensions	app-engine-python	6.2 MiB
Not Installed	kubectl	kubectl	12.2 MiB
Installed	BigQuery Command Line Tool	bq	< 1 MiB
Installed	Cloud SDK Core Libraries	core	7.4 MiB
Installed	Cloud Storage Command Line Tool	gsutil	3.3 MiB

To install or remove components at your current SDK version [178.0.0], run:
\$ gcloud components install COMPONENT_ID
\$ gcloud components remove COMPONENT_ID

To update your SDK installation to the latest version [178.0.0], run:
\$ gcloud components update

==> Source [/Users/praparn/Downloads/google-cloud-sdk/completion.bash.inc] in your profile to enable shell command completion for gcloud.
==> Source [/Users/praparn/Downloads/google-cloud-sdk/path.bash.inc] in your profile to add the Google Cloud SDK command line tools to your \$PATH.

For more information on how to get started, please visit:
<https://cloud.google.com/sdk/docs/quickstarts>

[macos-k8s:google-cloud-sdk praparn\$

1.2.2 Access to "bin" and Initial by command: gcloud init

```
macos-k8s:bin praparn$ pwd
/Users/praparn/google-cloud-sdk/bin
macos-k8s:bin praparn$ ls
bootstrapping      docker-credential-gcloud  git-credential-gcloud.sh
bq                  endpointscfg.py           gsutil
dev_appserver.py    gcloud                    java_dev_appserver.sh
macos-k8s:bin praparn$ ./gcloud init
Welcome! This command will take you through the configuration of gcloud.

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:
gcloud init --skip-diagnostics


Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic (1/1 checks) passed.

You must log in to continue. Would you like to log in (Y/n)? █
```

Generate Key/Import key

Following Gcloud Instruction for generate and import SSH Keys to GCloud

<https://cloud.google.com/compute/docs/instances/adding-removing-ssh-keys>

 Google Cloud Platform

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Adding and Removing SSH Keys

This guide shows you how to use the `gcloud` tool or API methods to add or remove project-wide SSH keys or instance-only SSH keys. You can use the `gcloud` tool or the API methods to automate SSH key management across the instances in your project rather than letting Compute Engine manage your keys for you. Users with these SSH keys are administrators on your instances that can run commands with `sudo`. By default, SSH access to instances as the `root` user is disabled even if you specify an SSH key in project or instance metadata for `root`.

★ **Note:** Setting the `sshKeys` metadata value on the instance metadata instead of the project metadata is deprecated. Compute Engine will stop supporting this metadata value in March 2017. [Set the `ssh-keys` instance metadata value to add ssh keys for users on individual instances instead.](#)

If you simply need to connect to your Linux instances, see [Connecting to Linux Instances](#). If you need to connect to a Windows instance, see [Connecting to Windows instances](#).

⚠ **Caution:** Using the `gcloud` tool or the API to manage SSH keys on Compute Engine is recommended only for advanced users. See [risks of manual key management](#).

Following Gcloud Instruction for generate and import SSH Keys to GCloud

*Remark: After generate key with format finished. You must use gcloud for insert sshKeys authentication with Public key to Google Cloud

Add or remove project-wide public keys using the [gcloud tool](#).

1. Obtain your existing project-wide `sshKeys` metadata value for your instance.

```
gcloud compute project-info describe

...
metadata:
  fingerprint: Rq1XCvmRVik=
  items:
  - key: sshKeys
    value: [USERNAME]:ssh-rsa [EXISTING_KEY_VALUE_1] [USERNAME]\n[USERNAME]:ssh-rsa [EXISTING_I
  ...
```

where:

- `[USERNAME]` is the username for your existing keys.
 - `[EXISTING_KEY_VALUE_1]` and `[EXISTING_KEY_VALUE_2]` are public key values that are already applied to your project.
2. Merge your existing keys with any new keys that you are adding, and leave out any keys that you want to delete. For this example, the file contains a new `[KEY_VALUE]` followed by one of the existing key values that you obtained in the previous step. The `[EXISTING_KEY_VALUE_1]` is left out, and is removed from the instance in the next step.

```
[USERNAME]:ssh-rsa [KEY_VALUE] [USERNAME]
[USERNAME]:ssh-rsa [EXISTING_KEY_VALUE_2] [USERNAME]
```

where:

- `[USERNAME]` is the username for your existing keys.
 - `[KEY_VALUE]` is the new key value that you are adding to the project.
 - `[EXISTING_KEY_VALUE_1]` is a public key values that is already applied to your project, but you need to remove it.
 - `[EXISTING_KEY_VALUE_2]` is a public key values that is already applied to your project and you want to keep.
3. Use the `compute project-info add-metadata` command to set the project-wide `sshKeys` value. For this example, include the `--metadata-from-file` flag and specify the path to your file on your local client.

```
gcloud compute project-info add-metadata
--metadata-from-file sshKeys=[KEY_FILE_NAME].pub
```

where `[KEY_FILE_NAME]` is the name of your public key file.