

User GoogleCloud (Free 300 Dollars)



Recommend to login on google chrome with gmail account.



Register for Google Cloud

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

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 Use Google's core infrastructure, data analytic 	es and machine learning.		
 Secure and fully featured for all enterprises. 			
 Committed to open source and industry leading 	ng price-performance.		
🔿 TRY IT FREE 👦 CONTACT SAL	ES		
GCP Region Expansion	Cloud Video Intelligence	Google Cloud & Intel	
https://console.cloud.google.com/freetrial?authuser=1	Understand the content of a video in an easy to use REST	API. A strategic alliance to accelerate enterprise	adoption of cloud.

2. Select Country and Access Condition

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	ลอง Cloud Platform ฟรี	Google	เข้าถึงผลิตภัณฑ์ Cloud Platform ทั้งหมด
	ประเทศ ไทย	۶. -	รับทุกอย่างที่จำเป็น ในการที่งานและชื่อก ใช้แอป เว็บไซต์ หรือเปริการของคุณ รวมถึง Firebase และ Google Maps API (รายควิติต \$300 หรื องชื่อนมักราชได้เกื่อวันเครพิต \$300 อำหรับไช้ง่ายบน Google
	การออมรับ โปรดส่งขั้นสอปเดดเรื่อวกับประกาศพีเจอร์ ดำแนะนำด้านประสิทธิกา ข้อเสนอพิเศษได้จัน ไข่ ไข่ ไม่ จันออมรับว่าการใช้บริการและ API ที่เรื่อวริจะจะต้องสอดคลังงกับข้อ เกื่อวร้อง นั่งได้ย้านและขอมรับชื่อกำหนด ในการให้บริการสำหรับการ คือปัตร พี่ จำเป็นต้องสำนับการต่ ไข่ () ไข่	เพ แบบสำรวจความคิดเพ็น และ ทำหนดในการให้บริการที่ ทศลองใช้ Google Cloud	Gloud Platform เป็นเวลา 12 เดียน ไม่มีการเรียกเก็บเงินอัด โนม่ติหลังจากสิ้นสุด การกดลอง ใช้หรื เราจะธรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรร
	ยอมรับและดำเนินการต่อ นโยบายความเป็นร่วนตัว		

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



Soogle Cloud Platform

ลอง Cloud Platform ฟรี	Google	🍙 เข้าถึงผลิตภัณฑ์ Cloud Platform ทั้งหมด	
ข้อมูลลูกค้า 🕙 ประเภทบัญชี 🛈 🎤		รับทุกอย่างที่จำเป็นในการสร้างและเรียกใช้แอป เว็บไซต์ หรือบริการของคุณ รวมถึง Firebase และ Google Maps API (ร) เครดิต \$300 ฟรี ลงชื่อสมัครใช้เพื่อรับเตรดิต \$300 สำหรับใช้จำยบน Google Cloud Platform เป็นเวลา 12 เดือน	
ธุรกิจ ∰⊒ ชื่อและที่อยู่ ⊙ ชื่อธุรกิจ KuberneVesThailandLab		ไม่มีการเรียกเก็บเงินอัตโนมัติหลังจากสิ้นสุด การทดลองใช้ฟรี เราะะอะอัยมูลบัตรเครดิตของคุณเพื่อตรวจสอบให้แน่ใจว่า คุณไม่ใช่หุ่นอนต์ ระบบจะไม่เรียกเก็บเงินคุณเว้นแต่คุณจะอัป เกรดเป็นบัญชีแบบช่าระเงินด้วยตนเอง	
ສ່ຍ Kubernetes Thailand Lab			
บรรทัดที่อยู่ 1 	\longrightarrow		

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

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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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Why Google Pr	roducts So	olutions	Launcher	Pricing	Customers	Documentation	Support	Partners		CONTACT SALES
Cloud SDK Product Overview	,	c	loud SDK > Docu	Imentation	SDK				☆ ☆ ☆ ☆ ☆ ส่งความคิดเห็น	เนื้อหา System requirements Installation options
Quickstarts All Quickstarts		т	his page contain	ns instructio	ns for downloadi	ing and installing Go	ogle Cloud SDI	κ.		Versioned archives Previous versions Interactive installer Non-interactive (silent)
For Debian and U For Red Hat and C For Mac OS X For Windows	buntu CentOS	System requirements deployment Managing a apt-get (be) Cloud SDK runs on Linux, Mac OS X and Windows, and requires Python 2.7.x. Some tools bundled with Cloud SDK have apt-get (be) additional requirements. For example, Java tools for Google App Engine development require Java 1.7 or later. vum (Red H							deployment Managing an installation apt-get (Debian and Ubuntu only) yum (Red Hat and	
How-to Guides All How-to Guides Installing the SDK Setting up the SDI Managing SDK Co Using gcloud Inte Scripting gcloud (s K pomponents ractive Shell 👗 Commands		nstallation Do one of the foll • Download a • Run the inte	Options lowing to ins a versioned a eractive insta	tall Cloud SDK: archive of any reliabler to download	ease, including previ I and install the lates	ous releases			CentOS)
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Concepts All Concepts SDK Overview		c	command-line to nstalling the app	ols. You can propriate <mark>deb</mark>	install additiona or RPM package	I components using es.	the gcloud c	omponents ins	tall command, or by	
gcloud Overview SDK Configuration SDK Properties SDK Components	ns		/ersioned a	rchives les download	dable, versioned	archives for each re	lease. Each ver	sioned archive o	contains a self-contained	

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

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19 items 1 item selected					

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 Not Installed	App Engine Go Extensions Cloud Bigtable Command Line Tool Cloud Bigtable Emulator Cloud Datalab Command Line Tool Cloud Datastore Emulator Cloud Datastore Emulator (Legacy) Cloud Pub/Sub Emulator Emulator Reverse Proxy Google Container Registry's Docker credential helper gcloud Alpha Commands gcloud Beta Commands gcloud app Java Extensions gcloud app PHP Extensions gcloud app Python Extensions kubectl BigOmery Command Line Tool	app-engine-go cbt bigtable datalab cloud-datastore-emulator gcd-emulator pubsub-emulator emulator-reverse-proxy docker-credential-gcr alpha beta app-engine-java app-engine-php app-engine-python kubectl	98. 9 MiB 4. 0 MiB 3. 5 MiB < 1 MiB 17. 7 MiB 38. 1 MiB 33. 2 MiB 14. 5 MiB 2. 1 MiB < 1 MiB < 1 MiB < 1 MiB 116. 0 MiB 19. 1 MiB 6. 2 MiB 12. 3 MiB 14. 5 MiB 19. 1 MiB 19. 1 MiB 19. 1 MiB 19. 1 MiB 19. 1 MiB 19. 1 MiB 10. 2 MiB 10. 3 MiB 10. 3 MiB 10. 1 MiB 10. 1 MiB 10. 1 MiB 10. 1 MiB 10. 1 MiB 10. 1 MiB 10. 2 MiB 10. 1 MiB 10. 2 MiB 10. 1 MiB 10. 1 MiB 10. 1 MiB 10. 2 MiB 10. 1 MiB
Installed Installed	Cloud SDK Core Libraries Cloud Storage Command Line Tool	core gsutil	7.4 MiB 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)?

Access to path "bin" and run command "gcloud components install beta" 1.1.3

"(

These components	will be insta	 11ed.				
Name	+	Size				
gcloud Beta Commands 2017.09.15 < 1 MiB						
r the latest full rel https://cloud.google.	2017.09.15 +	< 1 MiB + lease visi se_notes				
r the latest full rel https://cloud.google. you want to continue	2017.09.15 +	< 1 MiB + lease visi se_notes				

Add path of folder "bin" on system variable "Path" 1.1.4

1.1.5 Open command promopt 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.../

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

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Green Polder Today, 10:07 PM Rue Google-Cloud-sdk — Python + install.sh — 80×24 a login: Wed Nov 8 21:55:50 on console cos-k8s:- praparn\$ cd Downloads/ cos-k8s:pogle-cloud-sdk praparn\$ pwd sers/praparn/Downloads/google-cloud-sdk cos-k8s:google-cloud-sdk praparn\$ pwd sers/praparn/Downloads/google-cloud-sdk cos-k8s:google-cloud-sdk praparn\$ pwd lcome to the Google Cloud SDK! help improve the quality of this product, we collect anonymized usage data d anonymized stacktraces when crashes are encountered; additional information available at chttps://cloud.google.com/sdk/usage-statistics. You may choose opt out of this collection now (by choosing 'N' at the below prompt), or at y time in the future by running the following command: gcloud config set disable_usage_reporting true you want to help improve the Google Cloud SDK (Y/n)? n	Yellow	README	673 bytes	TextEdument	Today, 10:07 PM	
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Your current Cloud SDK version is: 178.0.0 The latest available version is: 178.0.0

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

1.2.2 export \$PATH of google sdk /bin to MAC OS X

[macos-k8s:bin praparn\$ export PATH=\$PATH:/	Jsers/praparn/google-cloud-sdk/bin
[macos-k8s:bin praparn\$ echo \$PATH	1
/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sb [macos-k8s:bin praparn\$	in:/Users/praparn/google-cloud-sdk/bin

1.2.3 run command "gcloud components install beta"

[macos-k8s:/ praparp\$ ocloud components install beta	Name Version Size
	gcloud Beta Commands 2017.09.15 < 1 MiB
Your current Cloud SDK version is: 179.0.0 Installing components from version: 179.0.0	For the latest full release notes, please visit: https://cloud.google.com/sdk/release_notes
These components will be installed.	Do you want to continue (Y/n)? Y
Name Version Size	Derekies webbe staries and
gcloud Beta Commands 2017.09.15 < 1 MiB	- Creating update staging area -
	🗕 Installing: gcloud Beta Commands 🚽
For the latest full release notes, please visit: https://cloud.google.com/sdk/release_notes	- Creating backup and activating new installation -
Do you want to continue (Y/n)? Y	Performing post processing stepsdone.
	Update done!
- creating update staging area	[macos-k8s:/ praparn\$

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

accs-kēs:bin praparn\$ pwd Users/praparn/google-cloud-sdk/bin ascna-Methin prapars€ is			
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 initskip-diagnostics			
Network diagnostic detects and fixes local network connection issues. Checking network connectiondone.			
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 (Option)

Following Gcloud Instruction for generate and import SSH Keys to GCloud

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



*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.
- 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.