

Install and configure Google Cloud SDK

1. Install Google Cloud SDK

<https://cloud.google.com/sdk/docs/install#windows>

2. After the installation setup is finished, installer will automatically run the gcloud init command.

```
C:\WINDOWS\SYSTEM32\cmd
Welcome to the Google Cloud CLI! Run "gcloud -h" to get the list of available commands.
---
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 passed (1/1 checks passed).

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

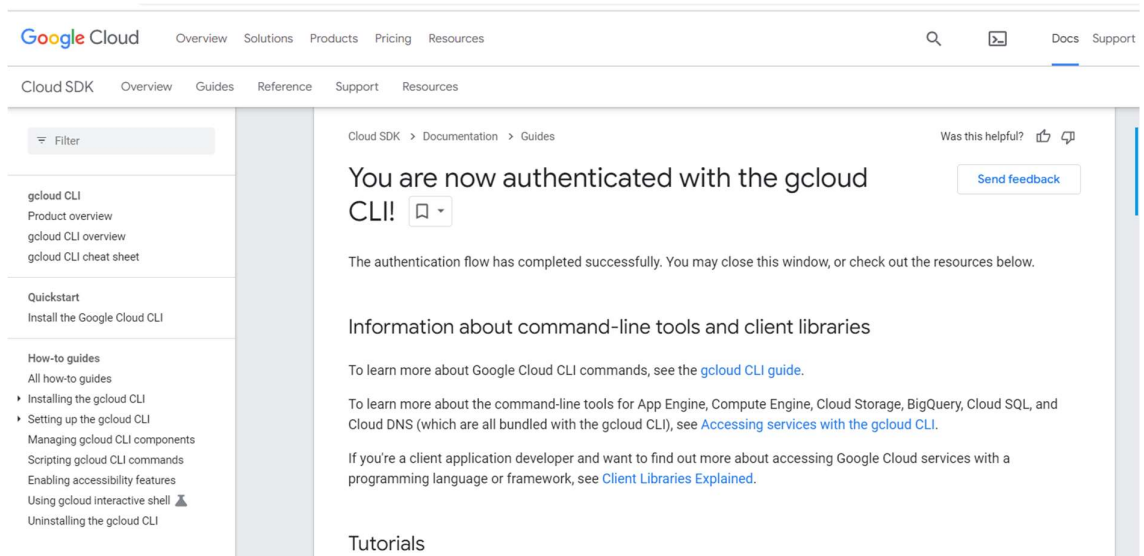
2. It will ask to login to the account and generate a URL.

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

Your browser has been opened to visit:

  https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=7hGiQpsfRYp70rMIjrKxf0x21mtGS0&access_type=offline&code_challenge=sJYgQxGalJMeKGDfIVgu_PDfrCp-HKjgu7TKMf5SHc&code_challenge_method=S256
```

3. Allow access to Google Cloud SDK from the Google Account.



4. We can now use gcloud init command to create/mange the projects

```
Please enter your numeric choice: 2
You are logged in as XXXX@gmail.com].
This account has no projects.
Would you like to create one? (Y/n)? y
Enter a Project ID. Note that a Project ID CANNOT be changed later.
Project IDs must be 6-30 characters (lowercase ASCII, digits, or
hyphens) in length and start with a lowercase letter. cloudprj-111111
Waiting for [operations/cp.6008920816169142554] to finish...done.
Your current project has been set to: [cloudprj-111111].

Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag)
```

Created project:

Select a project



NEW PROJECT

Search projects and folders

RECENT

STARRED

ALL

Name

ID

No organization

0

cloudprj-111111

cloudprj-111111

5. The different components of SDK can be viewed using the following command:
gcloud components list

Components			
Status	Name	ID	Size
Not Installed	App Engine Go Extensions	app-engine-go	4.6 MiB
Not Installed	Appctl	appctl	18.7 MiB
Not Installed	Artifact Registry Go Module Package Helper	package-go-module	< 1 MiB
Not Installed	Cloud Bigtable Command Line Tool	cbt	10.5 MiB
Not Installed	Cloud Bigtable Emulator	bigtable	6.9 MiB
Not Installed	Cloud Datastore Emulator	cloud-datastore-emulator	35.1 MiB
Not Installed	Cloud Firestore Emulator	cloud-firestore-emulator	41.8 MiB
Not Installed	Cloud Pub/Sub Emulator	pubsub-emulator	66.4 MiB
Not Installed	Cloud Run Proxy	cloud-run-proxy	7.6 MiB
Not Installed	Cloud SQL Proxy	cloud_sql_proxy	7.4 MiB
Not Installed	Google Container Registry's Docker credential helper	docker-credential-gcr	1.8 MiB
Not Installed	Log Streaming	log-streaming	12.4 MiB
Not Installed	Minikube	minikube	33.7 MiB
Not Installed	Skaffold	skaffold	22.1 MiB
Not Installed	Terraform Tools	terraform-tools	61.7 MiB
Not Installed	Anthos Auth	anthos-auth	20.5 MiB
Not Installed	Config Connector	config-connector	56.9 MiB
Not Installed	Enterprise Certificate Proxy	enterprise-certificate-proxy	7.0 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	64.6 MiB
Not Installed	gcloud app PHP Extensions	app-engine-php	19.1 MiB
Not Installed	gcloud app Python Extensions	app-engine-python	8.4 MiB
Not Installed	gcloud app Python Extensions (Extra Libraries)	app-engine-python-extras	26.4 MiB
Not Installed	gke-gcloud-auth-plugin	gke-gcloud-auth-plugin	7.8 MiB
Not Installed	kubect	kubect	< 1 MiB
Not Installed	kubectl-oidc	kubectl-oidc	20.5 MiB
Not Installed	pkg	pkg	
Installed	BigQuery Command Line Tool	bq	1.6 MiB
Installed	Cloud Storage Command Line Tool	gsutil	15.5 MiB
Installed	Google Cloud CLI Core Libraries	core	20.3 MiB
Installed	Google Cloud CRC32C Hash Tool	gcloud-crc32c	1.3 MiB