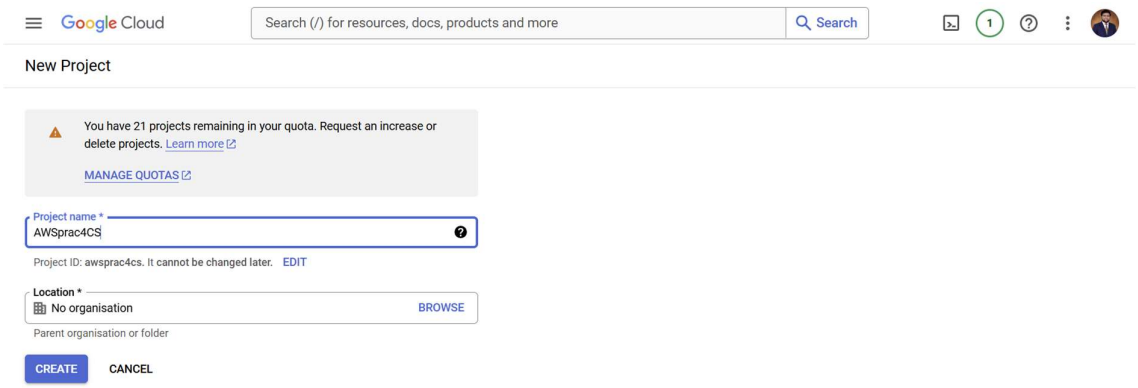
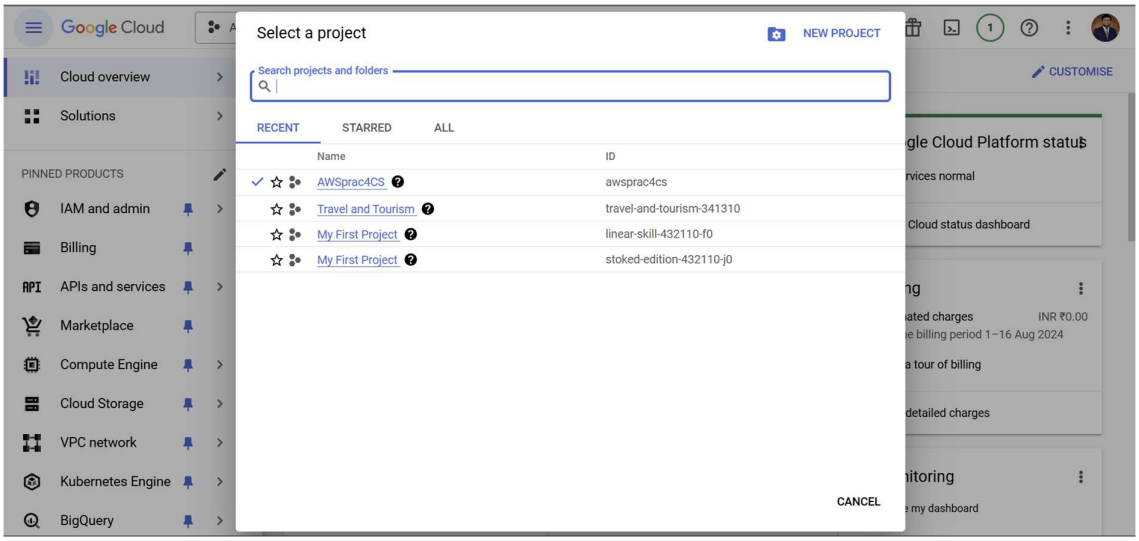
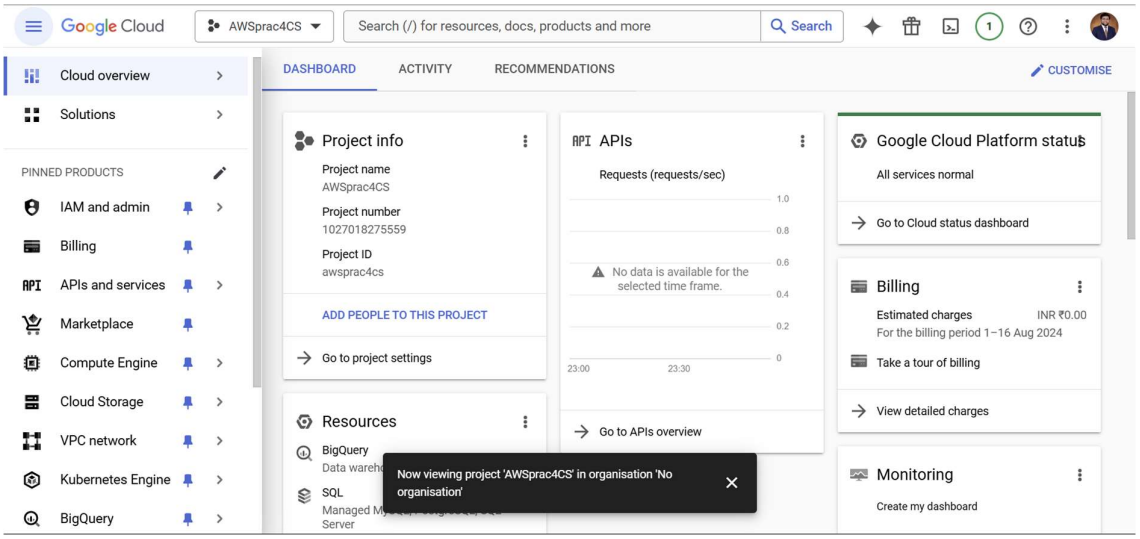
SVKM'S NMIMS Nilkamal School of Mathematics, Applied Statistics & Analytics
Master of Science (Statistics & Data Science)

Practical-4: To Demonstrate Platform as a Service using Googleapp Engine/ IBM BlueMix/ tSuru

Name: Chinmay Shinde Roll No.: A066 SAP ID: 86062300031






Google Cloud
AWSprac4CS
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Search
Cloud overview
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IAM and admin
Billing
APIs and services
Marketplace
Compute Engine
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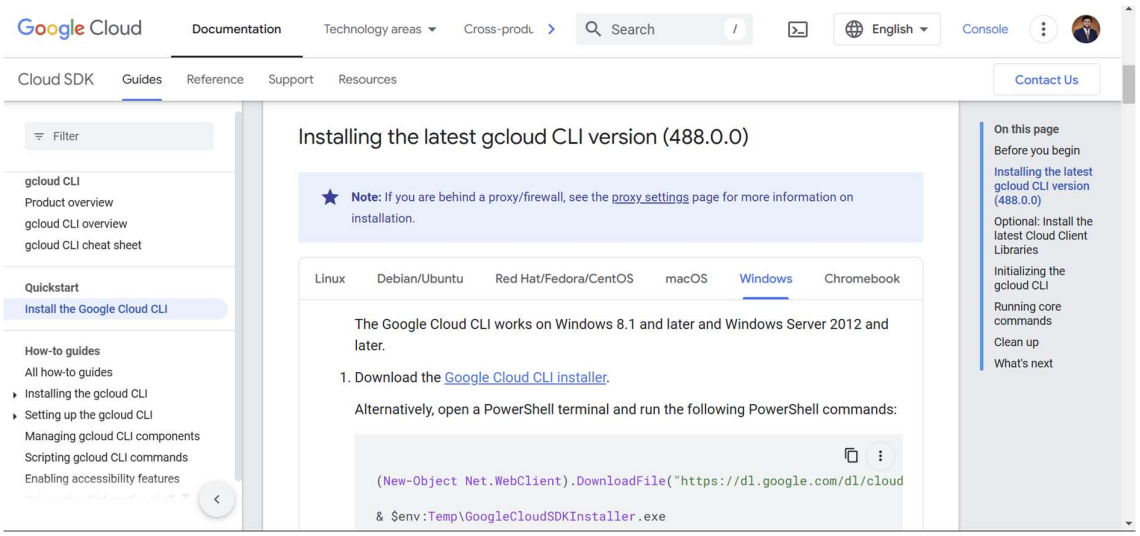
VPC network
Kubernetes Engine
BigQuery
DASHBOARD
ACTIVITY
RECOMMENDATIONS
CUSTOMISE
Project info
Project name
AWSprac4CS
Project number
1027018275559
Project ID
awsprac4cs
ADD PEOPLE TO THIS PROJECT
Go to project settings
APIs
Requests (requests/sec)
No data is available for the selected time frame.
Go to APIs overview
Resources
BigQuery
SQL
Google Cloud Platform status
All services normal
Go to Cloud status dashboard
Billing
Estimated charges
INR ₹0.00
For the billing period 1–16 Aug 2024
Take a tour of billing
View detailed charges
Monitoring
Create my dashboard
Now viewing project 'AWSprac4CS' in organisation 'No organisation'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gcloud CLI
Product overview
gcloud CLI overview
gcloud CLI cheat sheet
Quickstart
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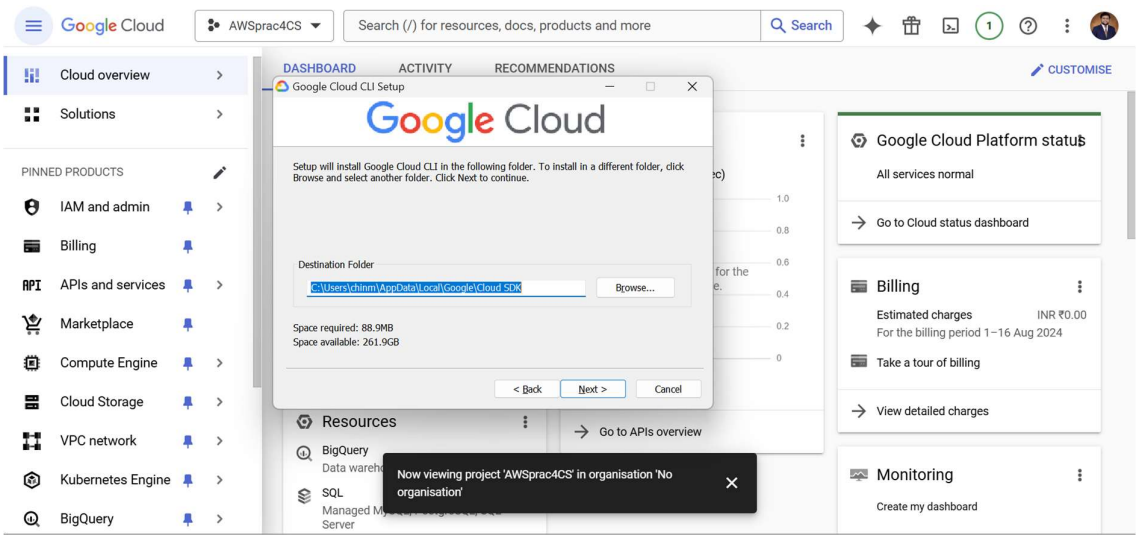
How-to guides
All how-to guides
Installing the gcloud CLI
Setting up the gcloud CLI
Managing gcloud CLI components
Scripting gcloud CLI commands
Enabling accessibility features
Installing the latest gcloud CLI version (488.0.0)
Note: If you are behind a proxy/firewall, see the proxy settings page for more information on installation.
Linux
Debian/Ubuntu
Red Hat/Fedora/CentOS
macOS
Windows
Chromebook
The Google Cloud CLI works on Windows 8.1 and later and Windows Server 2012 and later.
1. Download the Google Cloud CLI installer.
Alternatively, open a PowerShell terminal and run the following PowerShell commands:
(New-Object Net.WebClient).DownloadFile("https://dl.google.com/dl/cloud
& $env:Temp\GoogleCloudSDKInstaller.exe
On this page
Before you begin
Installing the latest gcloud CLI version (488.0.0)
Optional: Install the latest Cloud Client Libraries
Initializing the gcloud CLI
Running core commands
Clean up
What's next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Kubernetes Engine
BigQuery
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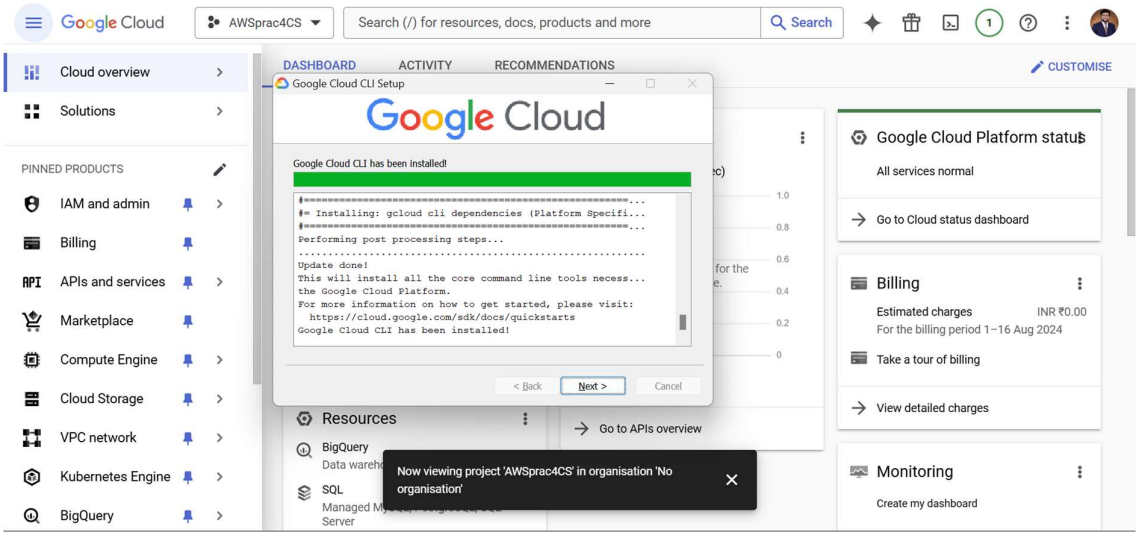
CUSTOMISE
Google Cloud CLI Setup
Google Cloud
Setup will install Google Cloud CLI in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Users\chinm\AppData\Local\Google\Cloud SDK
Browse...
Space required: 88.9MB
Space available: 261.9GB
< Back
Next >
Cancel
Google Cloud Platform status
All services normal
Go to Cloud status dashboard
Billing
Estimated charges
INR ₹0.00
For the billing period 1–16 Aug 2024
Take a tour of billing
View detailed charges
Resources
BigQuery
SQL
Go to APIs overview
Monitoring
Create my dashboard
Now viewing project 'AWSprac4CS' in organisation 'No organisation'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VPC network
Kubernetes Engine
BigQuery
DASHBOARD
ACTIVITY
RECOMMENDATIONS
CUSTOMISE
Google Cloud CLI Setup
Google Cloud
Google Cloud CLI has been installed!
Performing post processing steps...
Update done!
This will install all the core command line tools necess...
the Google Cloud Platform.
For more information on how to get started, please visit:
https://cloud.google.com/sdk/docs/quickstarts
Google Cloud CLI has been installed!
< Back
Next >
Cancel
Google Cloud Platform status
All services normal
Go to Cloud status dashboard
Billing
Estimated charges
INR ₹0.00
For the billing period 1–16 Aug 2024
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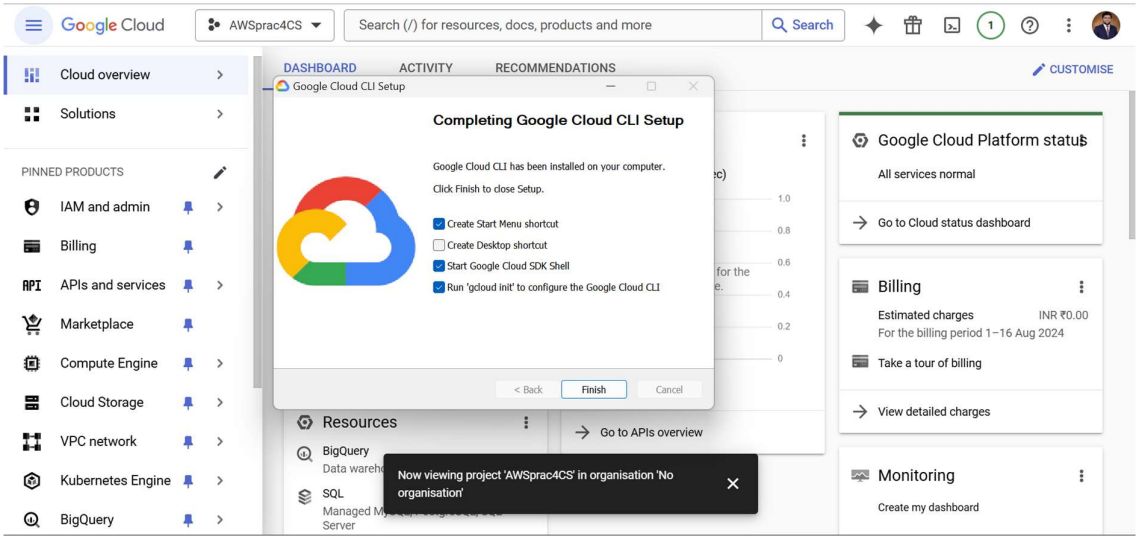
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ACTIVITY
RECOMMENDATIONS
CUSTOMISE
Google Cloud CLI Setup
Completing Google Cloud CLI Setup
Google Cloud CLI has been installed on your computer.
Click Finish to close Setup.
Create Start Menu shortcut
Create Desktop shortcut
Start Google Cloud SDK Shell
Run 'gcloud init' to configure the Google Cloud CLI
< Back
Finish
Cancel
Google Cloud Platform status
All services normal
Go to Cloud status dashboard
Billing
Estimated charges
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For the billing period 1–16 Aug 2024
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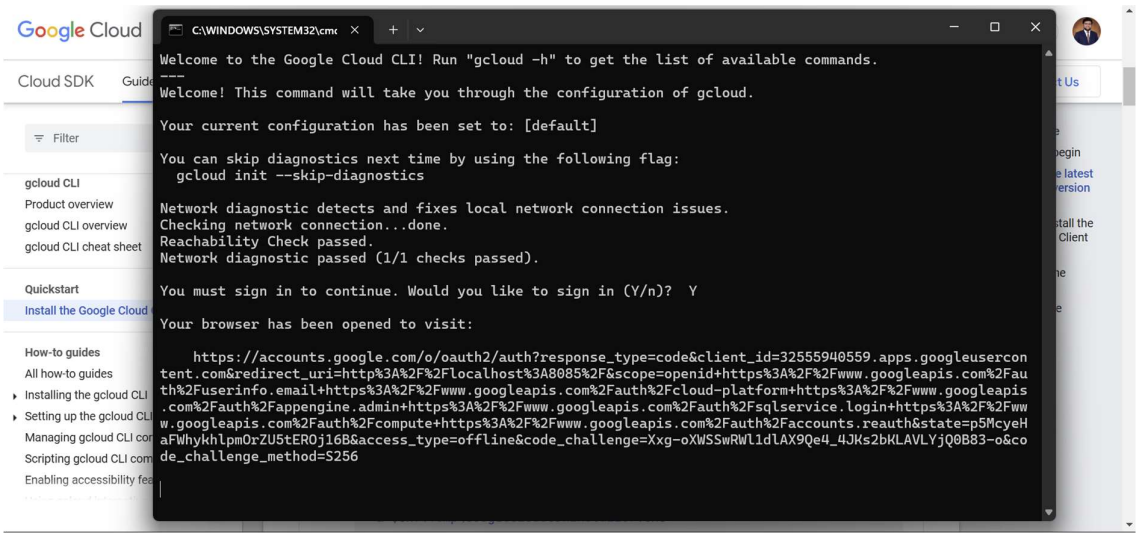
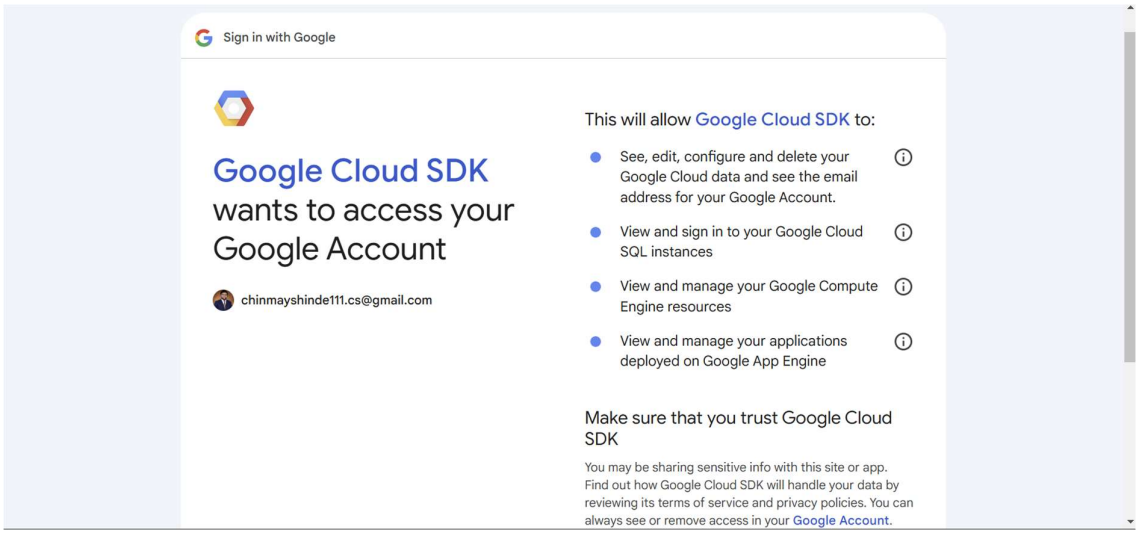
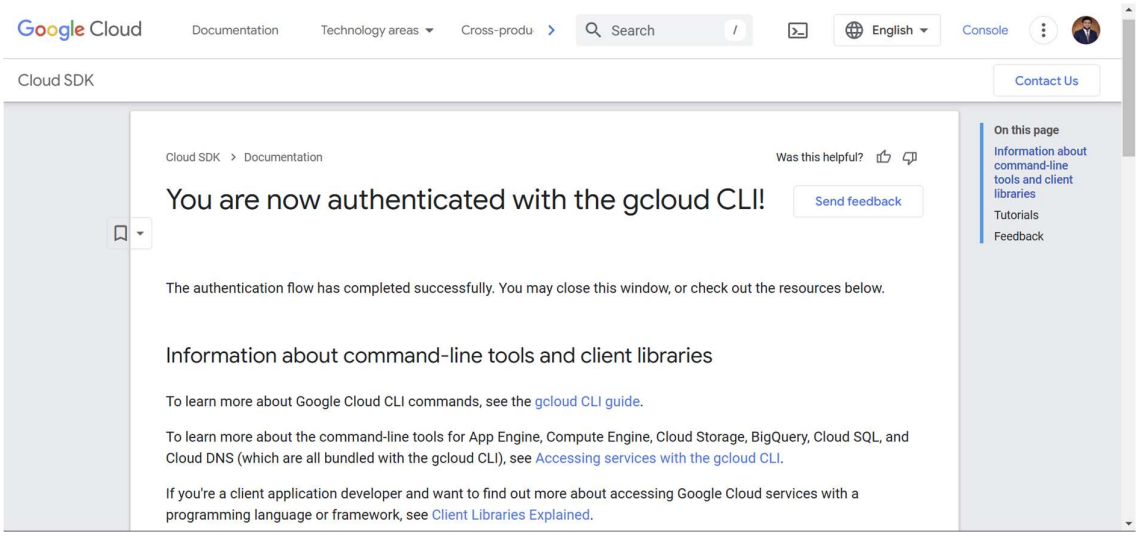
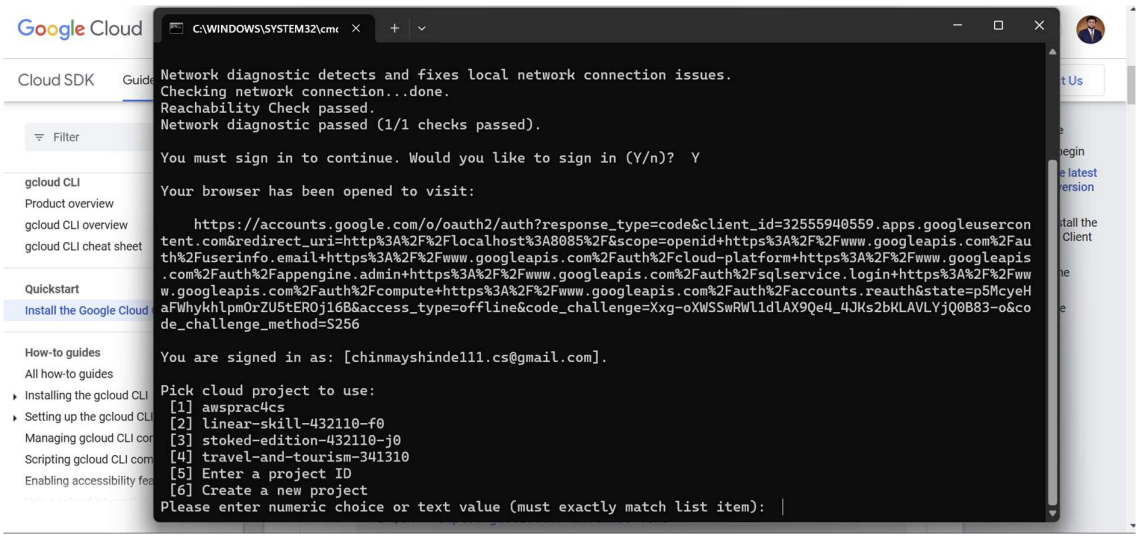
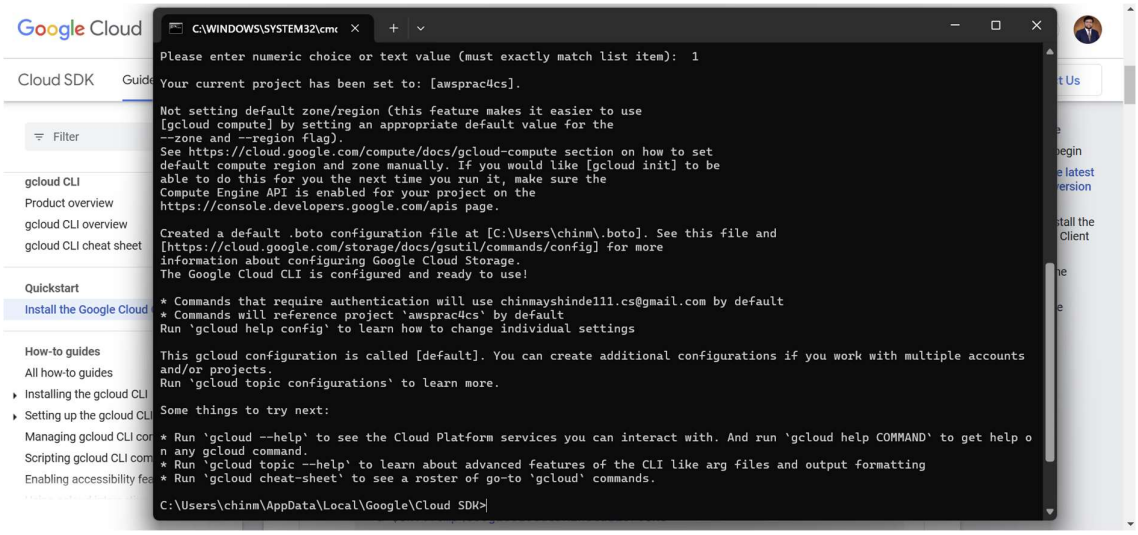

Google Cloud
Cloud SDK
C:\WINDOWS\SYSTEM32\cmd
Welcome to the Google Cloud CLI! Run "gcloud -h" to get the list of available commands.
Welcome! This command will take you through the configuration of gcloud.
Your current configuration has been set to: [default]
You can skip diagnostics next time by using 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 sign in to continue. Would you like to sign 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=p5McyeHaFWhykhlpmOrZU5tEROj16B&access_type=offline&code_challenge=Xxg-oXWSSwRWl1dlAX9Qe4_4JKs2bKLAVLYjQ0B83-o&code_challenge_method=S256
gcloud CLI
Product overview
gcloud CLI overview
gcloud CLI cheat sheet
Quickstart
Install the Google Cloud
How-to guides
All how-to guides
Installing the gcloud CLI
Setting up the gcloud CLI
Managing gcloud CLI
Scripting gcloud CLI
Enabling accessibility


Sign in with Google
Google Cloud SDK wants to access your Google Account
chinmayshinde111.cs@gmail.com
This will allow Google Cloud SDK to:
See, edit, configure and delete your Google Cloud data and see the email address for your Google Account.
View and sign in to your Google Cloud SQL instances
View and manage your Google Compute Engine resources
View and manage your applications deployed on Google App Engine
Make sure that you trust Google Cloud SDK
You may be sharing sensitive info with this site or app. Find out how Google Cloud SDK will handle your data by reviewing its terms of service and privacy policies. You can always see or remove access in your Google Account.


Google Cloud
Documentation
Technology areas
Cross-produ
Search
English
Console
Cloud SDK
Contact Us
Cloud SDK > Documentation
Was this helpful?
You are now authenticated with the gcloud CLI!
Send feedback
The authentication flow has completed successfully. You may close this window, or check out the resources below.
Information about command-line tools and client libraries
To learn more about Google Cloud CLI commands, see the gcloud CLI guide.
To learn more about the command-line tools for App Engine, Compute Engine, Cloud Storage, BigQuery, Cloud SQL, and Cloud DNS (which are all bundled with the gcloud CLI), see Accessing services with the gcloud CLI.
If you're a client application developer and want to find out more about accessing Google Cloud services with a programming language or framework, see Client Libraries Explained.
On this page
Information about command-line tools and client libraries
Tutorials
Feedback


Google Cloud
Cloud SDK
C:\WINDOWS\SYSTEM32\cmd
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 sign in to continue. Would you like to sign 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=p5McyeHaFWhykhlpmOrZU5tEROj16B&access_type=offline&code_challenge=Xxg-oXWSSwRWl1dlAX9Qe4_4JKs2bKLAVLYjQ0B83-o&code_challenge_method=S256
You are signed in as: [chinmayshinde111.cs@gmail.com].
Pick cloud project to use:
[1] awsprac4cs
[2] linear-skill-432110-f0
[3] stoked-edition-432110-j0
[4] travel-and-tourism-341310
[5] Enter a project ID
[6] Create a new project
Please enter numeric choice or text value (must exactly match list item):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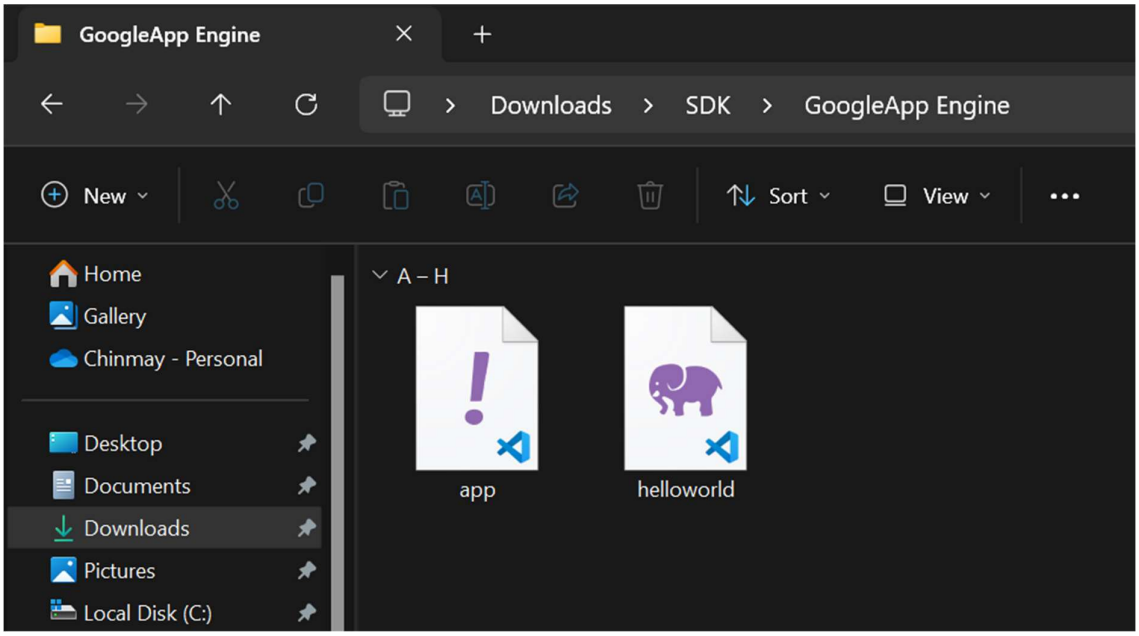
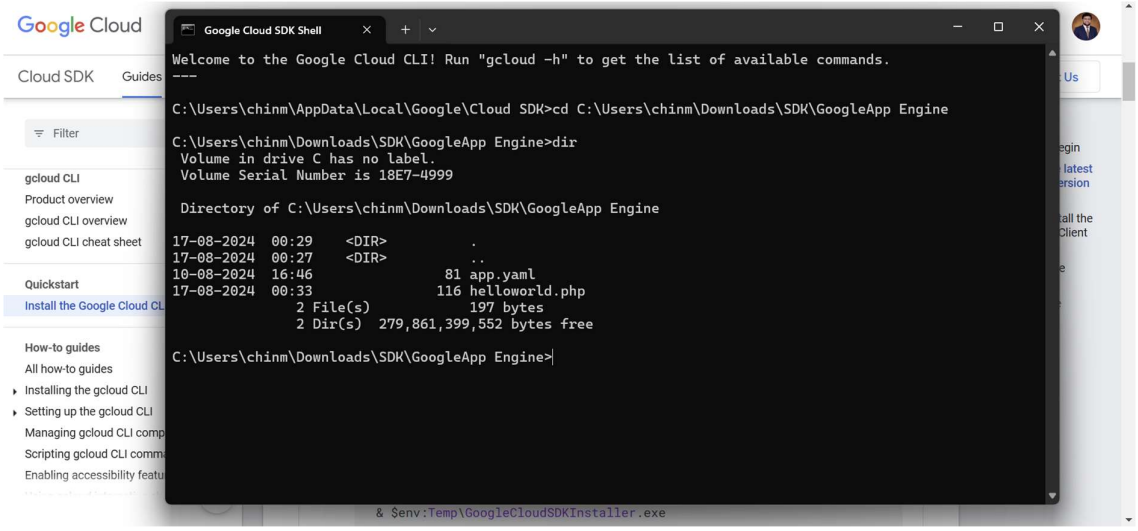
Managing gcloud CLI con
Scripting gcloud CLI com
Enabling accessibility fea
C:\WINDOWS\SYSTEM32\cmd
Please enter numeric choice or text value (must exactly match list item): 1
Your current project has been set to: [awsprac4cs].
Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag).
See https://cloud.google.com/compute/docs/gcloud-compute section on how to set
default compute region and zone manually. If you would like [gcloud init] to be
able to do this for you the next time you run it, make sure the
Compute Engine API is enabled for your project on the
https://console.developers.google.com/apis page.
Created a default .boto configuration file at [C:\Users\chinm\.boto]. See this file and
[https://cloud.google.com/storage/docs/gsutil/commands/config] for more
information about configuring Google Cloud Storage.
The Google Cloud CLI is configured and ready to use!
* Commands that require authentication will use chinmayshinde111.cs@gmail.com by default
* Commands will reference project `awsprac4cs` by default
Run `gcloud help config` to learn how to change individual settings
This gcloud configuration is called [default]. You can create additional configurations if you work with multiple accounts
and/or projects.
Run `gcloud topic configurations` to learn more.
Some things to try next:
* Run `gcloud --help` to see the Cloud Platform services you can interact with. And run `gcloud help COMMAND` to get help o
n any gcloud command.
* Run `gcloud topic --help` to learn about advanced features of the CLI like arg files and output formatting
* Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.
C:\Users\chinm\AppData\Local\Google\Cloud SDK>


GoogleApp Engine
Downloads
SDK
GoogleApp Engine
New
Sort
View
Home
Gallery
Chinmay - Personal
Desktop
Documents
Downloads
Pictures
Local Disk (C:)
A – H
app
helloworld


Google Cloud SDK Shell
Welcome to the Google Cloud CLI! Run "gcloud -h" to get the list of available commands.

C:\Users\chinm\AppData\Local\Google\Cloud SDK>cd C:\Users\chinm\Downloads\SDK\GoogleApp Engine
C:\Users\chinm\Downloads\SDK\GoogleApp Engine>dir
Volume in drive C has no label.
Volume Serial Number is 18E7-4999
Directory of C:\Users\chinm\Downloads\SDK\GoogleApp Engine
17-08-2024 00:29 <DIR> .
17-08-2024 00:27 <DIR> ..
10-08-2024 16:46 81 app.yaml
17-08-2024 00:33 116 helloworld.php
2 File(s) 197 bytes
2 Dir(s) 279,861,399,552 bytes free
C:\Users\chinm\Downloads\SDK\GoogleApp Engine>
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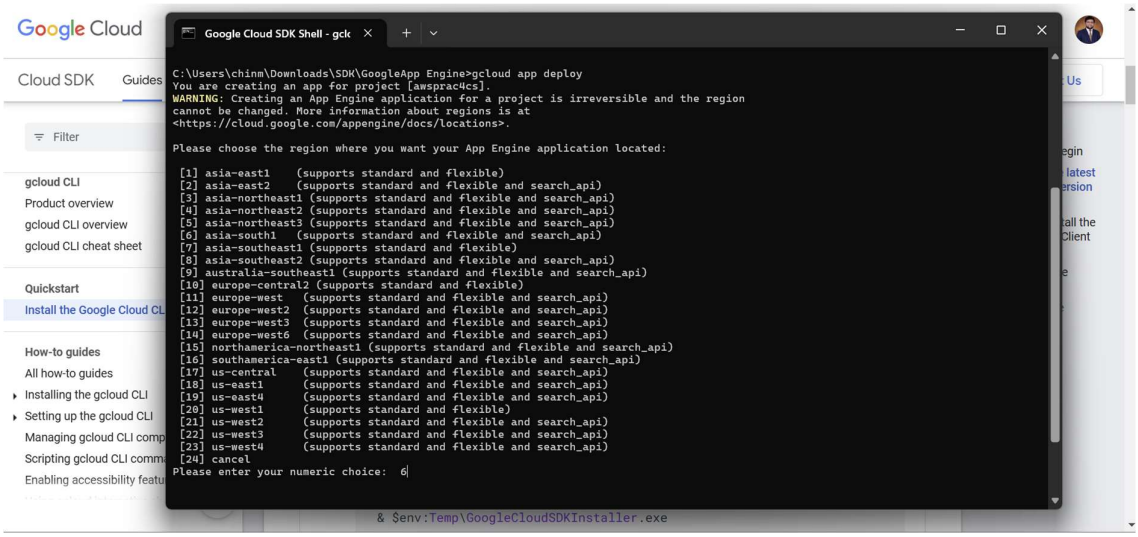
& $env:Temp\GoogleCloudSDKInstaller.exe


Google Cloud SDK Shell - gcl
C:\Users\chinm\Downloads\SDK\GoogleApp Engine>gcloud app deploy
You are creating an app for project [awsprac4cs].
WARNING: Creating an App Engine application for a project is irreversible and the region
cannot be changed. More information about regions is at
<https://cloud.google.com/appengine/docs/locations>.
Please choose the region where you want your App Engine application located:
[1] asia-east1 (supports standard and flexible)
[2] asia-east2 (supports standard and flexible and search_api)
[3] asia-northeast1 (supports standard and flexible and search_api)
[4] asia-northeast2 (supports standard and flexible and search_api)
[5] asia-northeast3 (supports standard and flexible and search_api)
[6] asia-south1 (supports standard and flexible and search_api)
[7] asia-southeast1 (supports standard and flexible)
[8] asia-southeast2 (supports standard and flexible and search_api)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-central2 (supports standard and flexible)
[11] europe-west (supports standard and flexible and search_api)
[12] europe-west2 (supports standard and flexible and search_api)
[13] europe-west3 (supports standard and flexible and search_api)
[14] europe-west6 (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-east1 (supports standard and flexible and search_api)
[17] us-central (supports standard and flexible and search_api)
[18] us-east1 (supports standard and flexible and search_api)
[19] us-east4 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[23] us-west4 (supports standard and flexible and search_api)
[24] cancel
Please enter your numeric choice: 6
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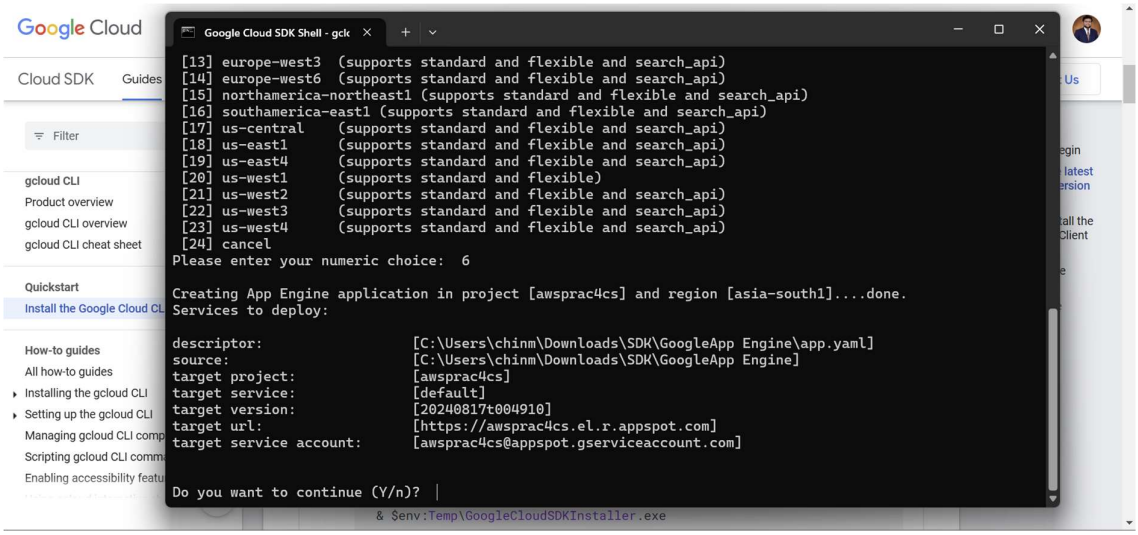
Google Cloud SDK Shell - gcl
[13] europe-west3 (supports standard and flexible and search_api)
[14] europe-west6 (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-east1 (supports standard and flexible and search_api)
[17] us-central (supports standard and flexible and search_api)
[18] us-east1 (supports standard and flexible and search_api)
[19] us-east4 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[23] us-west4 (supports standard and flexible and search_api)
[24] cancel
Please enter your numeric choice: 6
Creating App Engine application in project [awsprac4cs] and region [asia-south1]....done.
Services to deploy:
descriptor: [C:\Users\chinm\Downloads\SDK\GoogleApp Engine\app.yaml]
source: [C:\Users\chinm\Downloads\SDK\GoogleApp Engine]
target project: [awsprac4cs]
target service: [default]
target version: [20240817t004910]
target url: [https://awsprac4cs.el.r.appspot.com]
target service account: [awsprac4cs@appspot.gserviceaccount.com]
Do you want to continue (Y/n)?
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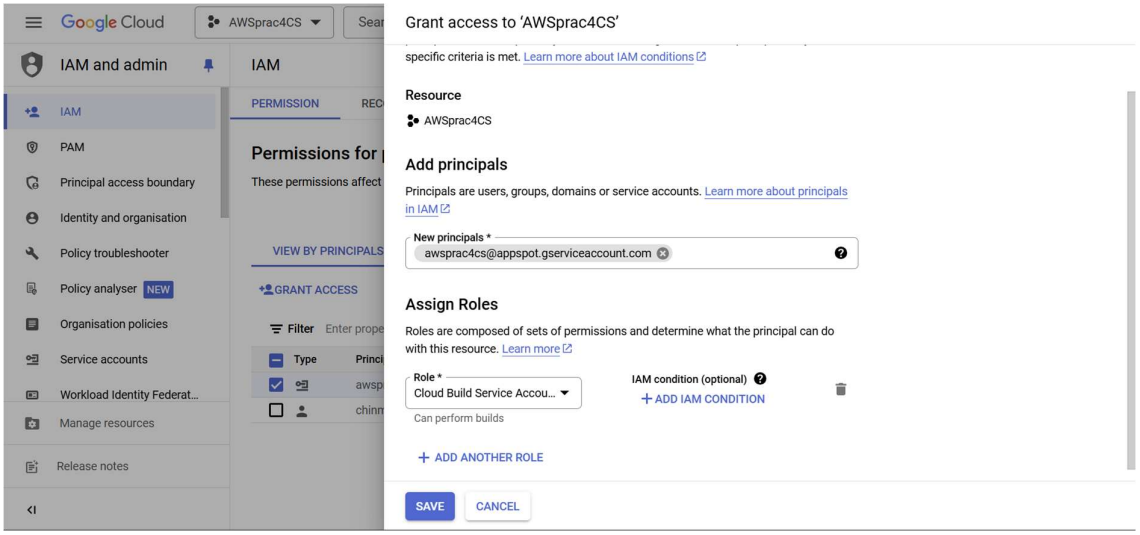
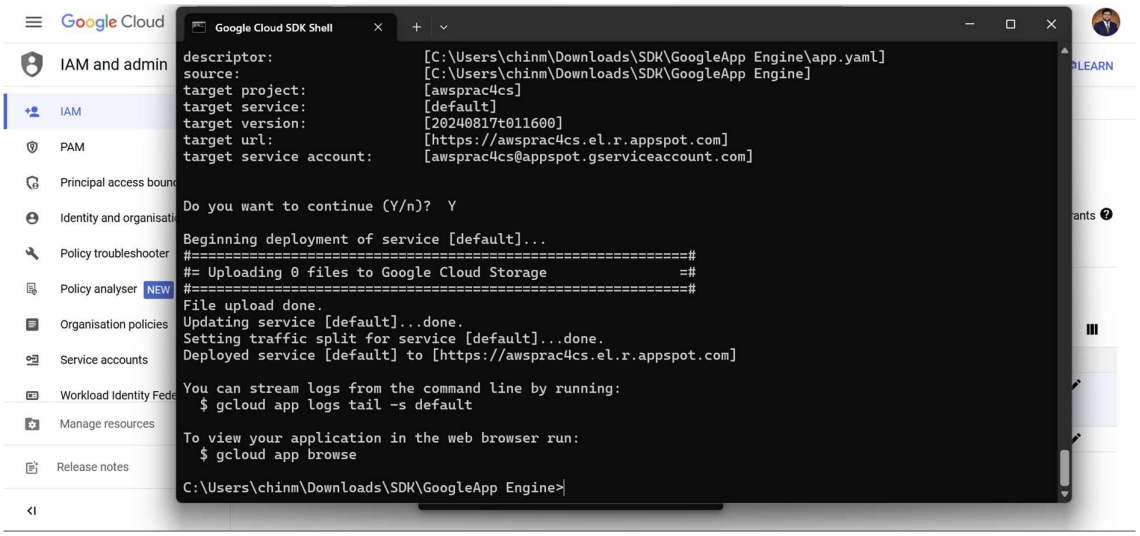

Google Cloud
AWSprac4CS
IAM and admin
IAM
PAM
Principal access boundary
Identity and organisation
Policy troubleshooter
Policy analyser
NEW
Organisation policies
Service accounts
Workload Identity Federat...
Manage resources
Release notes
PERMISSION
Permissions for
These permissions affect
VIEW BY PRINCIPALS
GRANT ACCESS
Filter
Type
Grant access to 'AWSprac4CS'
specific criteria is met. Learn more about IAM conditions
Resource
AWSprac4CS
Add principals
Principals are users, groups, domains or service accounts. Learn more about principals in IAM
New principals *
awsprac4cs@appspot.gserviceaccount.com
Assign Roles
Roles are composed of sets of permissions and determine what the principal can do with this resource. Learn more
Role *
Cloud Build Service Accou...
Can perform builds
IAM condition (optional)
ADD IAM CONDITION
ADD ANOTHER ROLE
SAVE
CANCEL


Google Cloud
IAM and admin
Google Cloud SDK Shell
descriptor: [C:\Users\chinm\Downloads\SDK\GoogleApp Engine\app.yaml]
source: [C:\Users\chinm\Downloads\SDK\GoogleApp Engine]
target project: [awsprac4cs]
target service: [default]
target version: [20240817t011600]
target url: [https://awsprac4cs.el.r.appspot.com]
target service account: [awsprac4cs@appspot.gserviceaccount.com]
Do you want to continue (Y/n)? Y
Beginning deployment of service [default]...
#= Uploading 0 files to Google Cloud Storage =#
File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://awsprac4cs.el.r.appspot.com]
You can stream logs from the command line by running:
$ gcloud app logs tail -s default
To view your application in the web browser run:
$ gcloud app browse
C:\Users\chinm\Downloads\SDK\GoogleApp Engine>