GCP Architect Training

support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

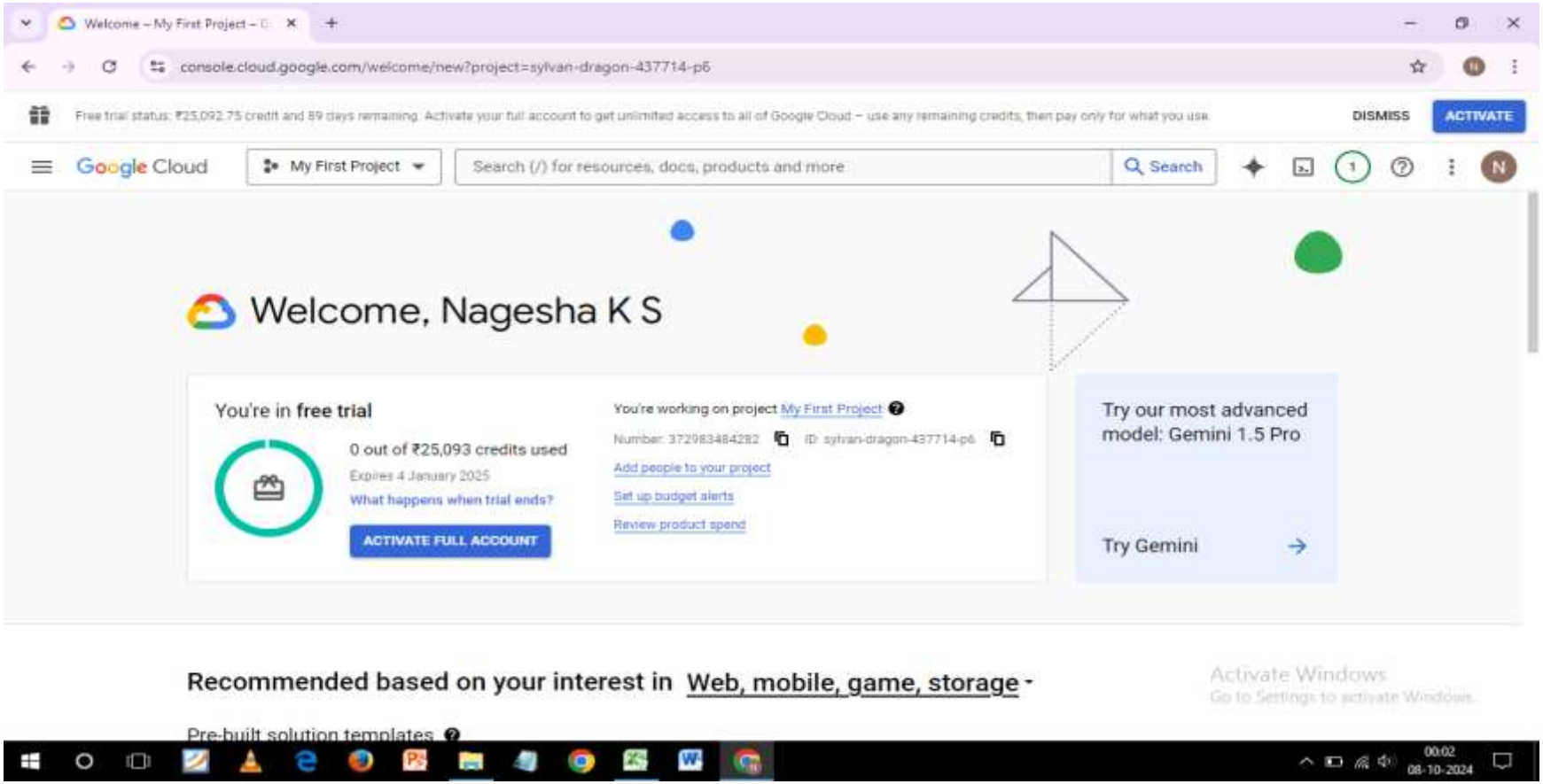
GCP-Module-1-GCP and VM Introduction-Assignment-1 COMPLETED by Nagesha KS

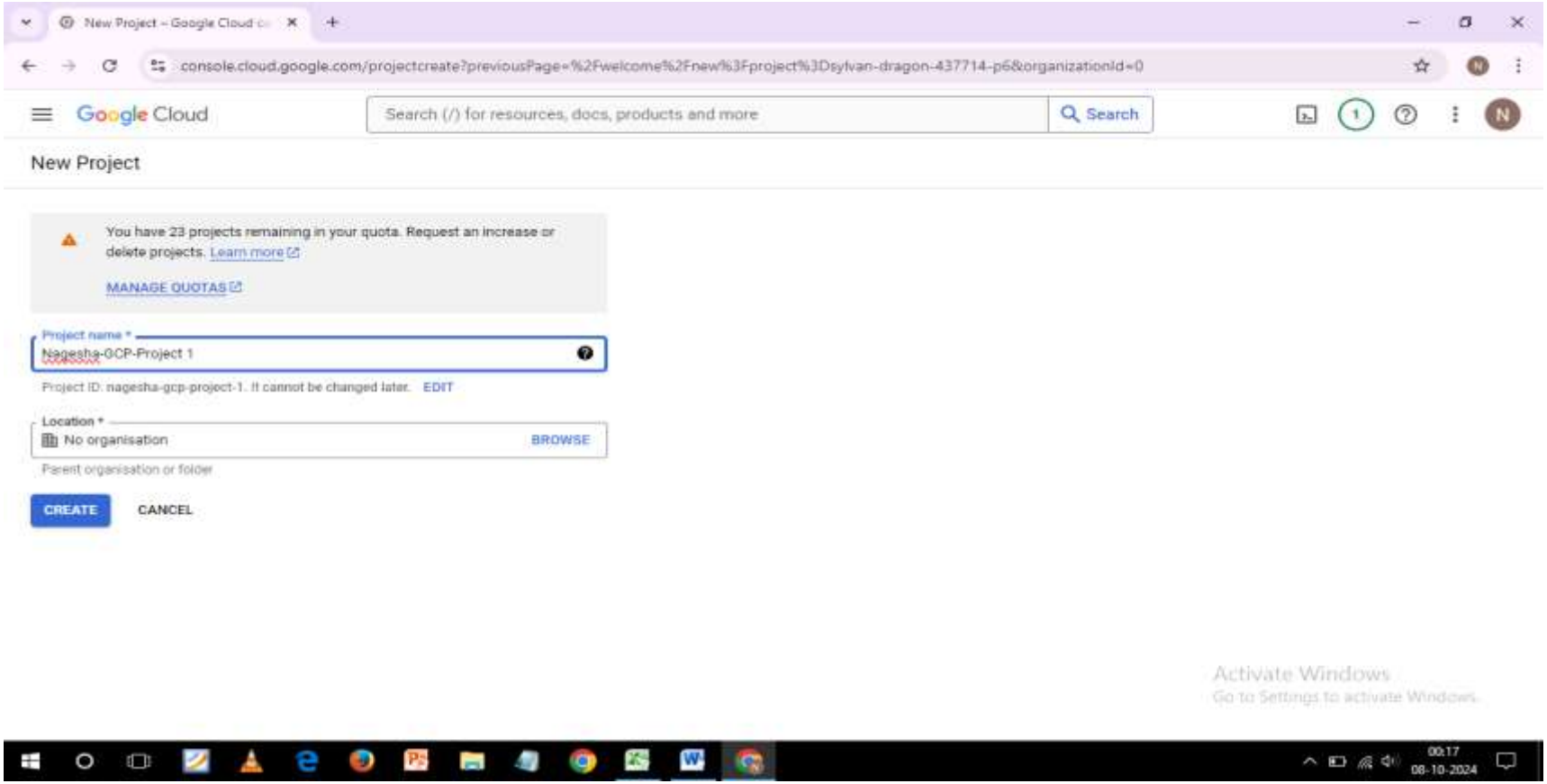
Please check the following screenshots for each question.

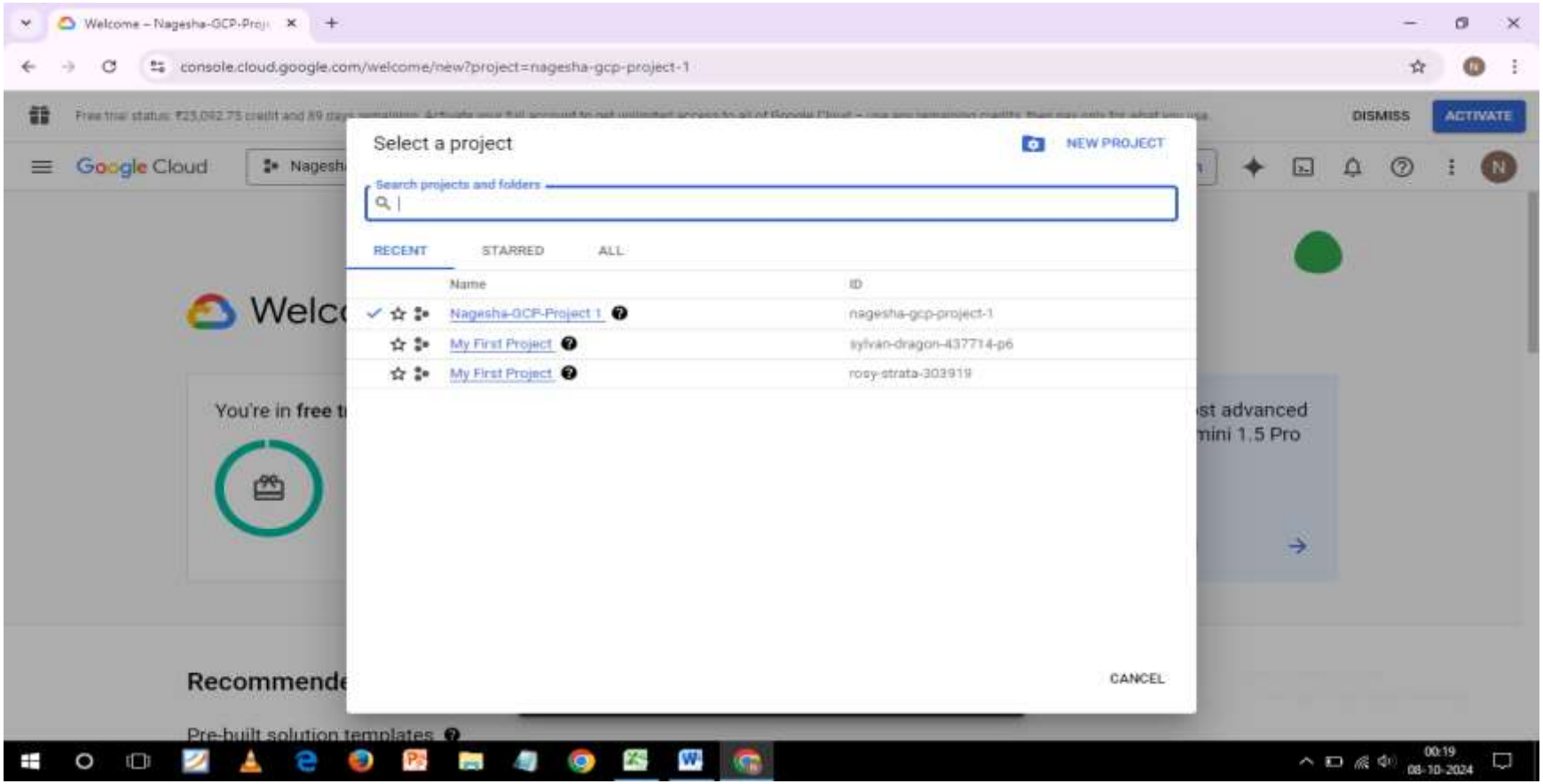
Tasks To Be Performed:

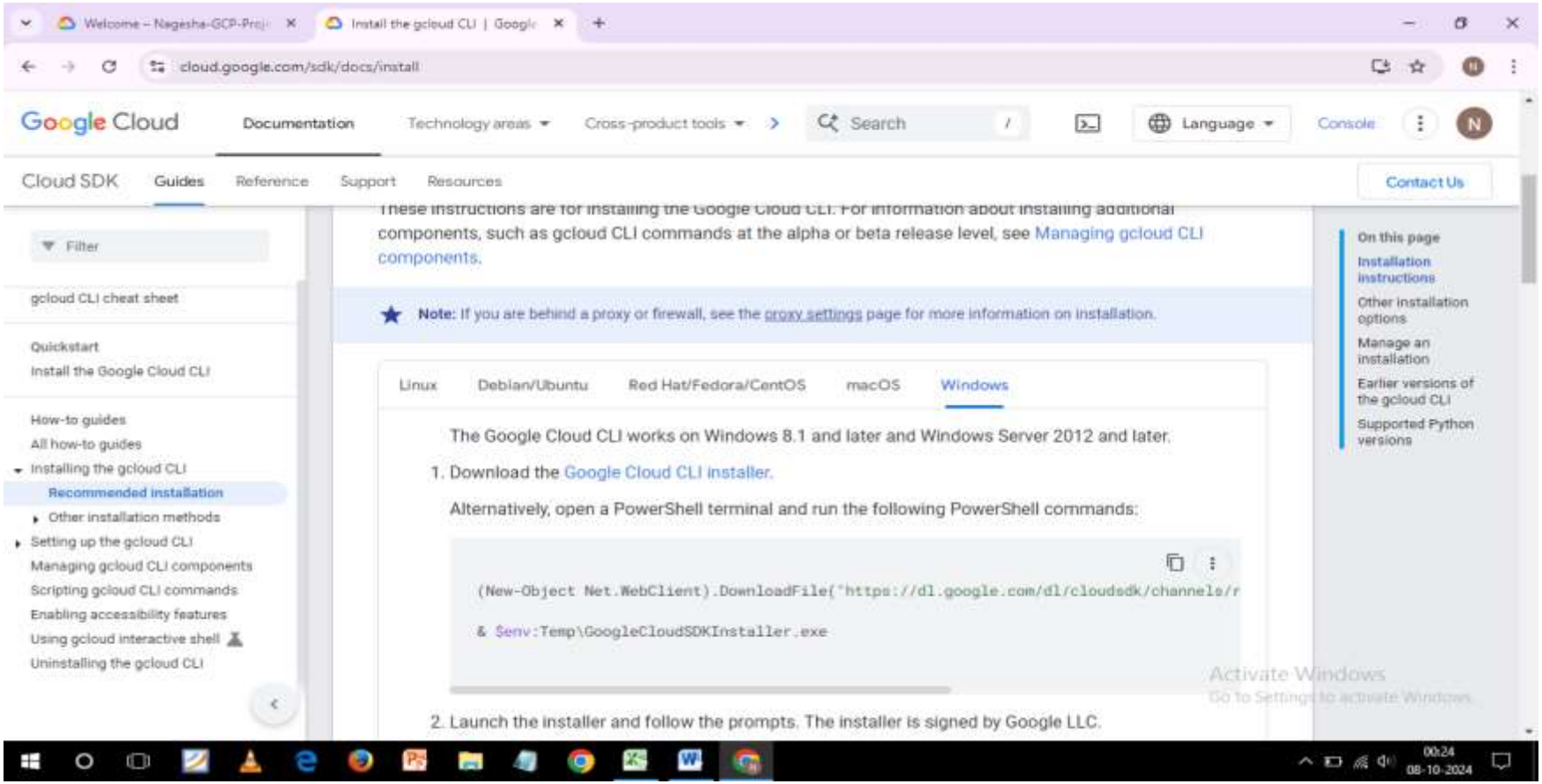
1. Signup on GCP for free tier.
2. Create a new project.
3. Install gcloud on your system, and configure it.
4. Deploy an Ubuntu VM of the minimum spec using the following methods:
    - gcloud local
    - gcloud from the browser
    - web console
5. Change the default region of VM deployment to Asia-south-1c.

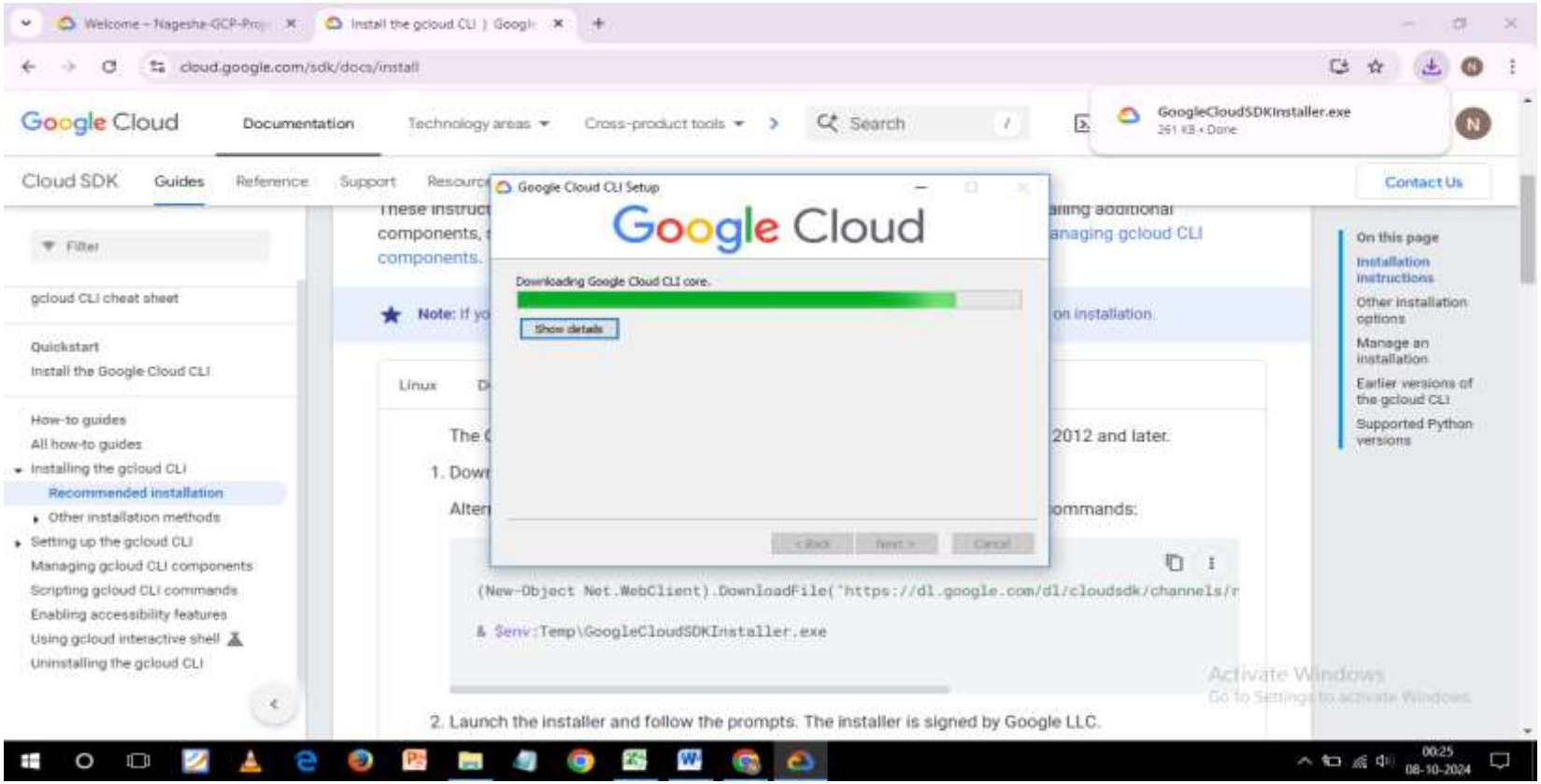
Submit the screenshots for all the above steps for verification.


Welcome – My First Project –
console.cloud.google.com/welcome/new?project=sylvan-dragon-437714-p6
Free trial status: ₹25,092.75 credit and 89 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.
DISMISS
ACTIVATE
Google Cloud
My First Project
Search (/) for resources, docs, products and more
Search
Welcome, Nagesha K S
You're in free trial
0 out of ₹25,093 credits used
Expires 4 January 2025
What happens when trial ends?
ACTIVATE FULL ACCOUNT
You're working on project My First Project
Number: 372983484282
ID: sylvan-dragon-437714-p6
Add people to your project
Set up budget alerts
Review product spend
Try our most advanced model: Gemini 1.5 Pro
Try Gemini
Recommended based on your interest in Web, mobile, game, storage
Pre-built solution templates
Activate Windows
Go to Settings to activate Windows.
00:02
08-10-2024


New Project – Google Cloud
console.cloud.google.com/projectcreate?previousPage=%2Fwelcome%2Fnew%3Fproject%3Dsylvan-dragon-437714-p6&organizationId=0
Google Cloud
Search (/) for resources, docs, products and more
Search
New Project
You have 23 projects remaining in your quota. Request an increase or delete projects. Learn more
MANAGE QUOTAS
Project name *
Nagesha-GCP-Project 1
Project ID: nagesha-gcp-project-1. It cannot be changed later. EDIT
Location *
No organisation
BROWSE
Parent organisation or folder
CREATE
CANCEL
Activate Windows
Go to Settings to activate Windows.
00:17
08-10-2024


Welcome – Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1
DISMISS
ACTIVATE
Google Cloud
Select a project
NEW PROJECT
Search projects and folders
RECENT
STARRED
ALL
Name
ID
Nagesha-GCP-Project 1
nagesha-gcp-project-1
My First Project
sylvan-dragon-437714-p6
My First Project
rosy-strata-303919
CANCEL
You're in free t
st advanced
mini 1.5 Pro
Recommende
Pre-built solution templates
00:19
08-10-2024


Welcome – Nagesha-GCP-Proj
Install the gcloud CLI | Google
cloud.google.com/sdk/docs/install
Google Cloud
Documentation
Technology areas
Cross-product tools
Search
Language
Console
Cloud SDK
Guides
Reference
Support
Resources
Contact Us
Filter
gcloud CLI cheat sheet
Quickstart
Install the Google Cloud CLI
How-to guides
All how-to guides
Installing the gcloud CLI
Recommended installation
Other installation methods
Setting up the gcloud CLI
Managing gcloud CLI components
Scripting gcloud CLI commands
Enabling accessibility features
Using gcloud interactive shell
Uninstalling the gcloud CLI
These instructions are for installing the Google Cloud CLI. For information about installing additional components, such as gcloud CLI commands at the alpha or beta release level, see Managing gcloud CLI components.
Note: If you are behind a proxy or firewall, see the proxy settings page for more information on installation.
Linux
Debian/Ubuntu
Red Hat/Fedora/CentOS
macOS
Windows
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/cloudsdk/channels/r
& $env:Temp\GoogleCloudSDKInstaller.exe
Activate Windows
Go to Settings to activate Windows.
2. Launch the installer and follow the prompts. The installer is signed by Google LLC.
On this page
Installation instructions
Other installation options
Manage an installation
Earlier versions of the gcloud CLI
Supported Python versions
00:24
08-10-2024


Welcome - Nagesha-GCP-Proj
Install the gcloud CLI | Google
cloud.google.com/sdk/docs/install
Google Cloud
Documentation
Technology areas
Cross-product tools
Search
GoogleCloudSDKInstaller.exe
261 KB • Done
Cloud SDK
Guides
Reference
Support
Contact Us
Google Cloud CLI Setup
Google Cloud
Downloading Google Cloud CLI core.
Show details
< Back
Next >
Cancel
Filter
gcloud CLI cheat sheet
Quickstart
Install the Google Cloud CLI
How-to guides
All how-to guides
Installing the gcloud CLI
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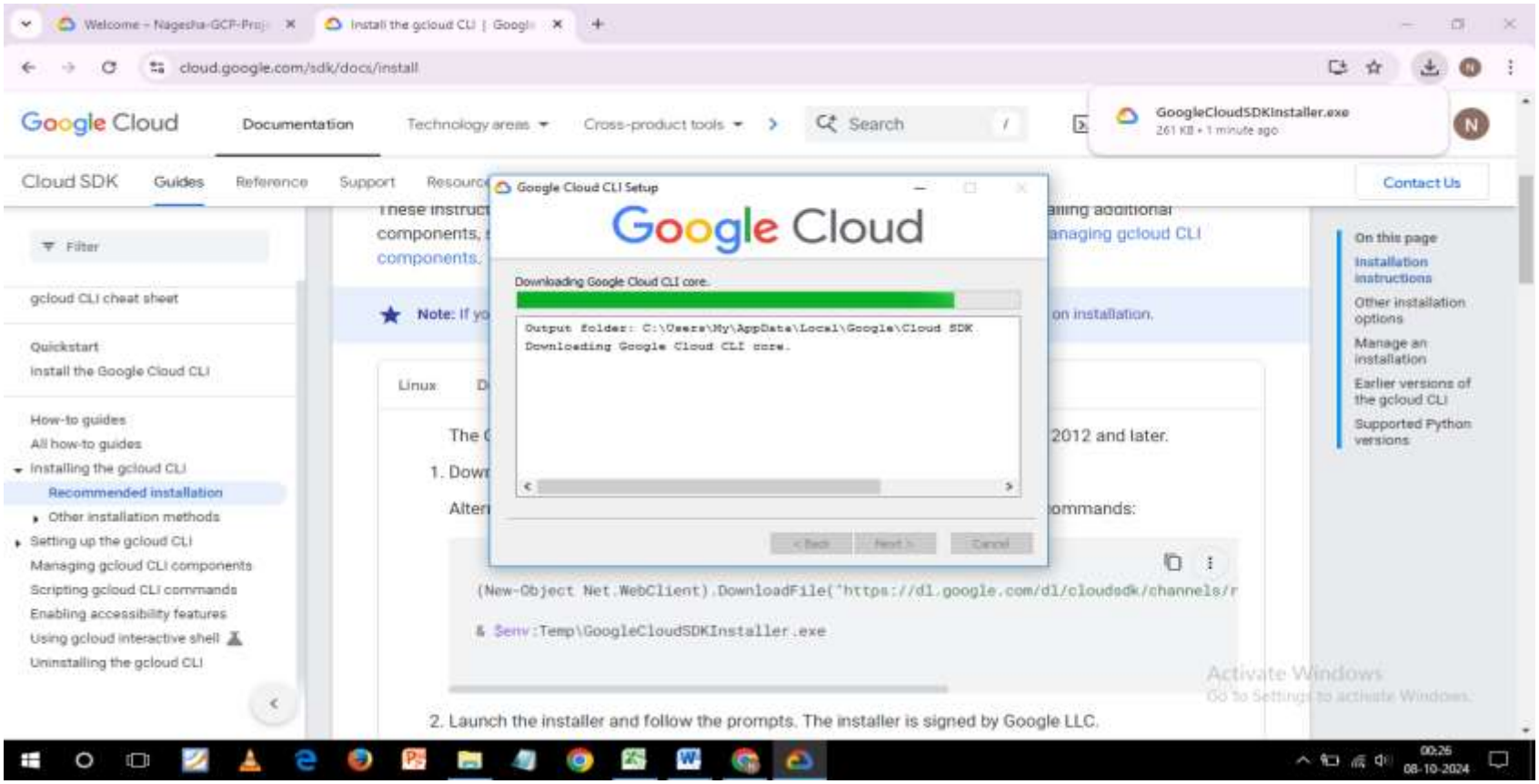
Using gcloud interactive shell
Uninstalling the gcloud CLI
components.
Note: If yo
on installation.
Linux
The
2012 and later.
1. Down
Alter
ommands:
(New-Object Net.WebClient).DownloadFile('https://dl.google.com/dl/cloudsdk/channels/r
& $env:Temp\GoogleCloudSDKInstaller.exe
2. Launch the installer and follow the prompts. The installer is signed by Google LLC.
On this page
Installation instructions
Other installation options
Manage an installation
Earlier versions of the gcloud CLI
Supported Python versions
Activate Windows
Go to Settings to activate Windows.
00:25
08-10-2024


Welcome - Nagesha-GCP-Proj
Install the gcloud CLI | Google
cloud.google.com/sdk/docs/install
Google Cloud
Documentation
Technology areas
Cross-product tools
Search
GoogleCloudSDKInstaller.exe
261 KB • 1 minute ago
Cloud SDK
Guides
Reference
Support
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Quickstart
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How-to guides
All how-to guides
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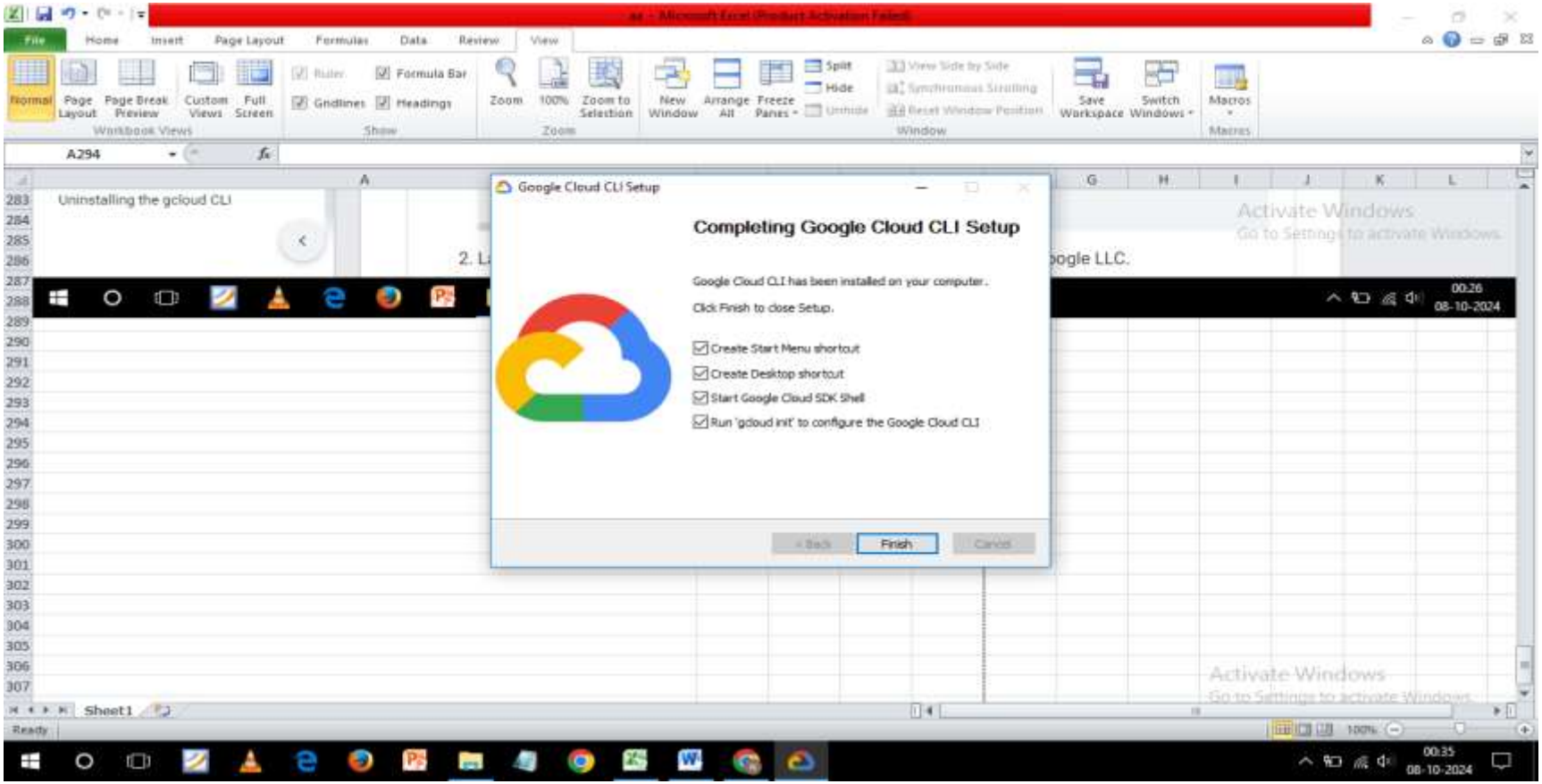
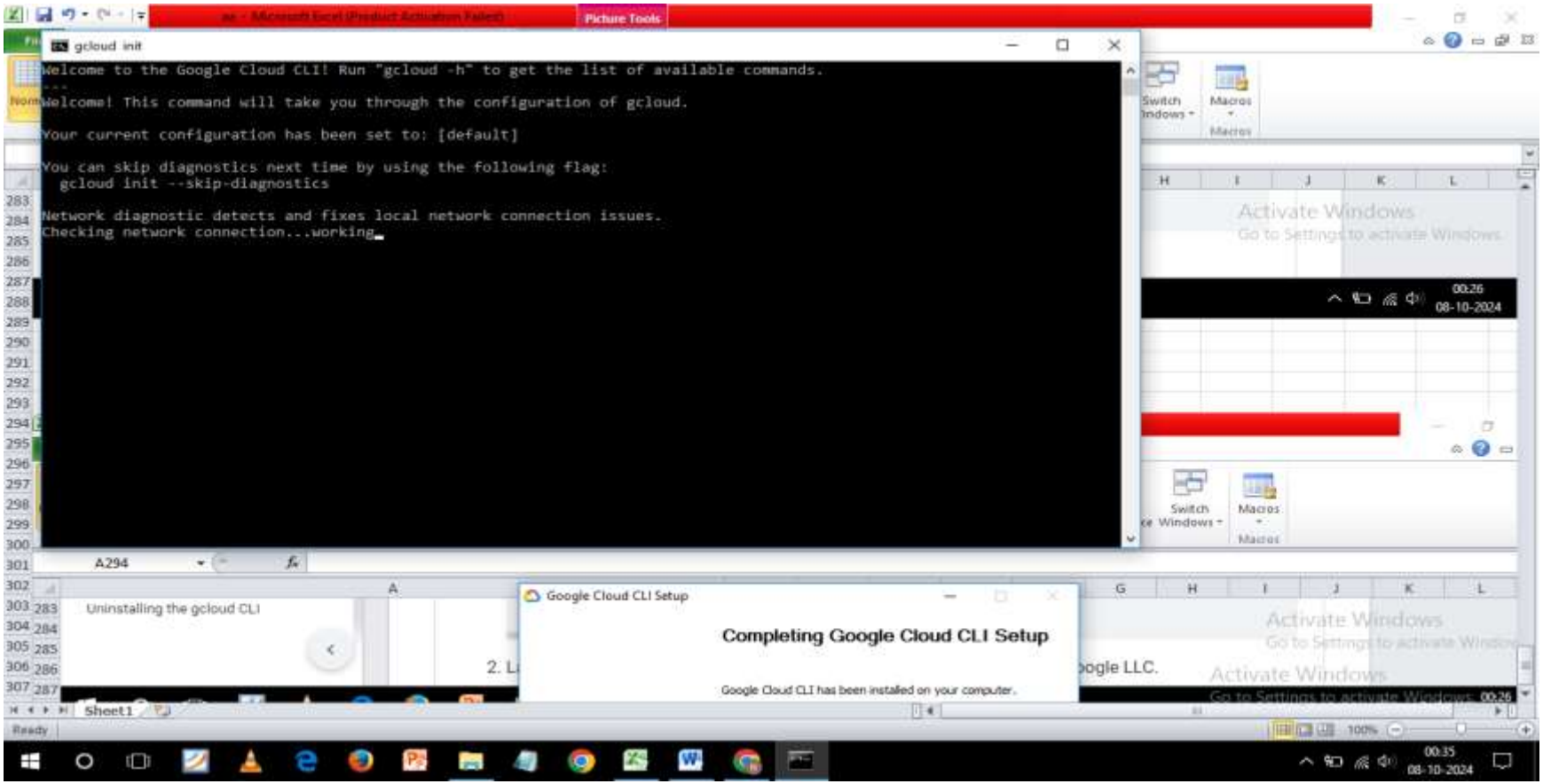
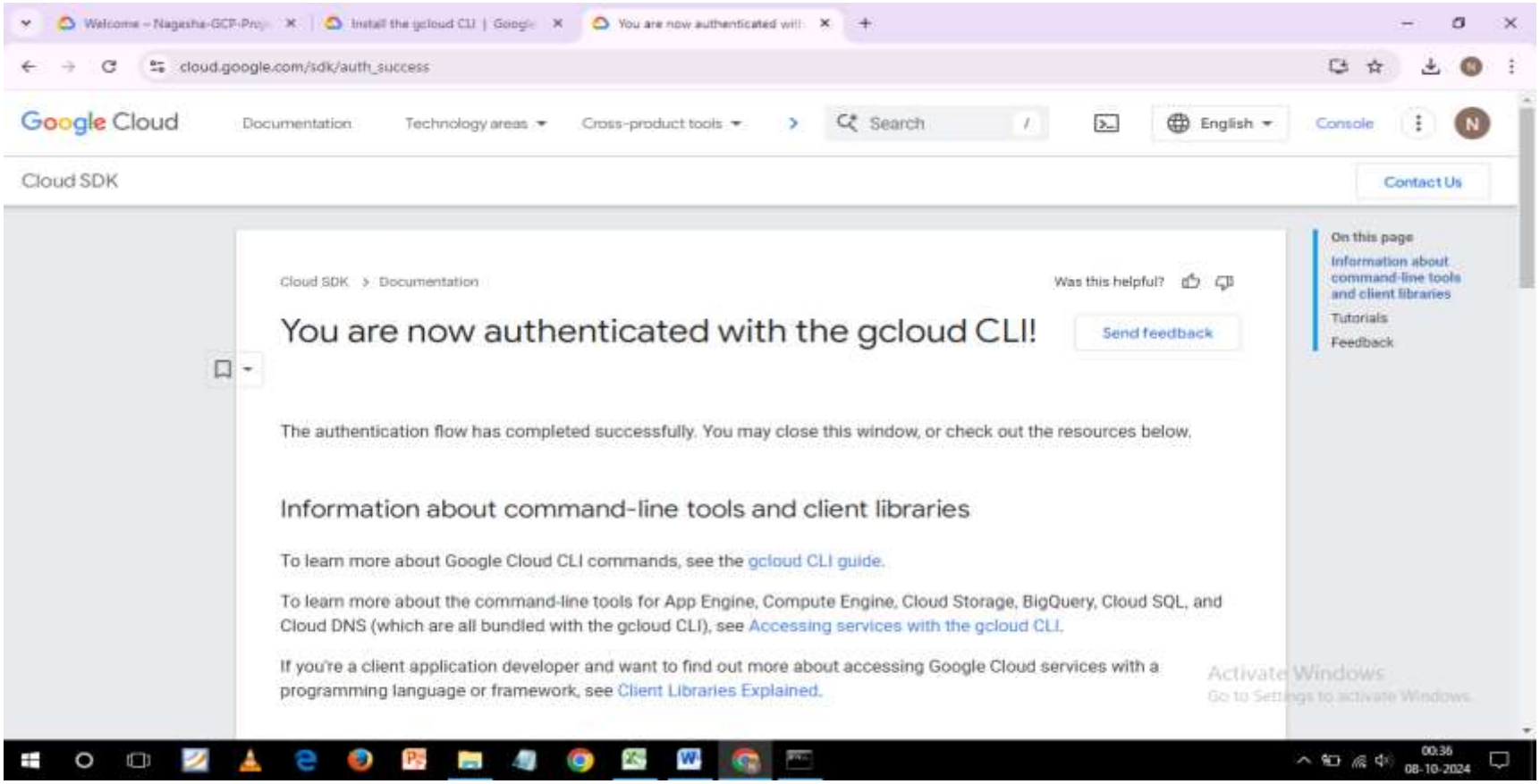
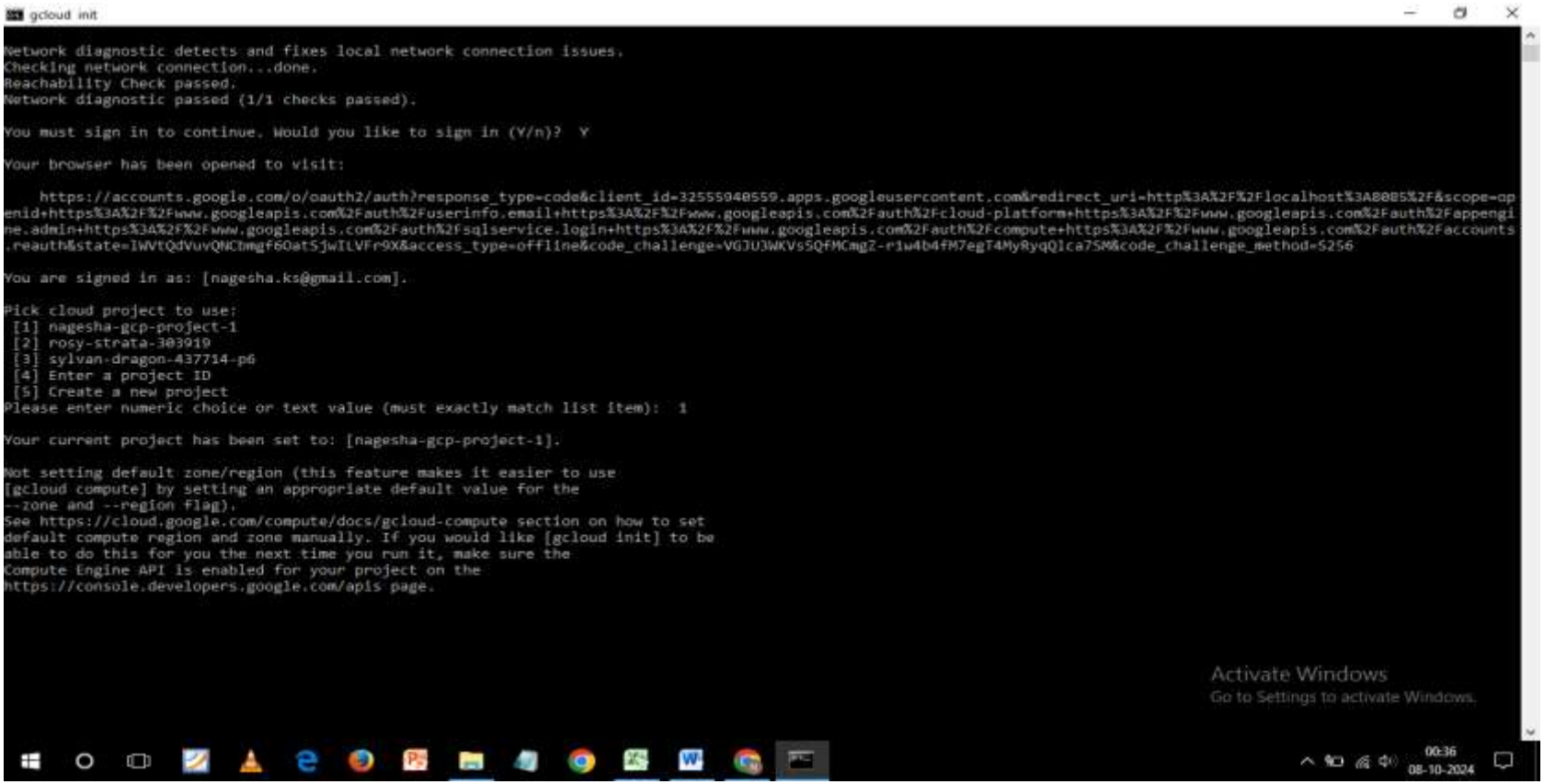
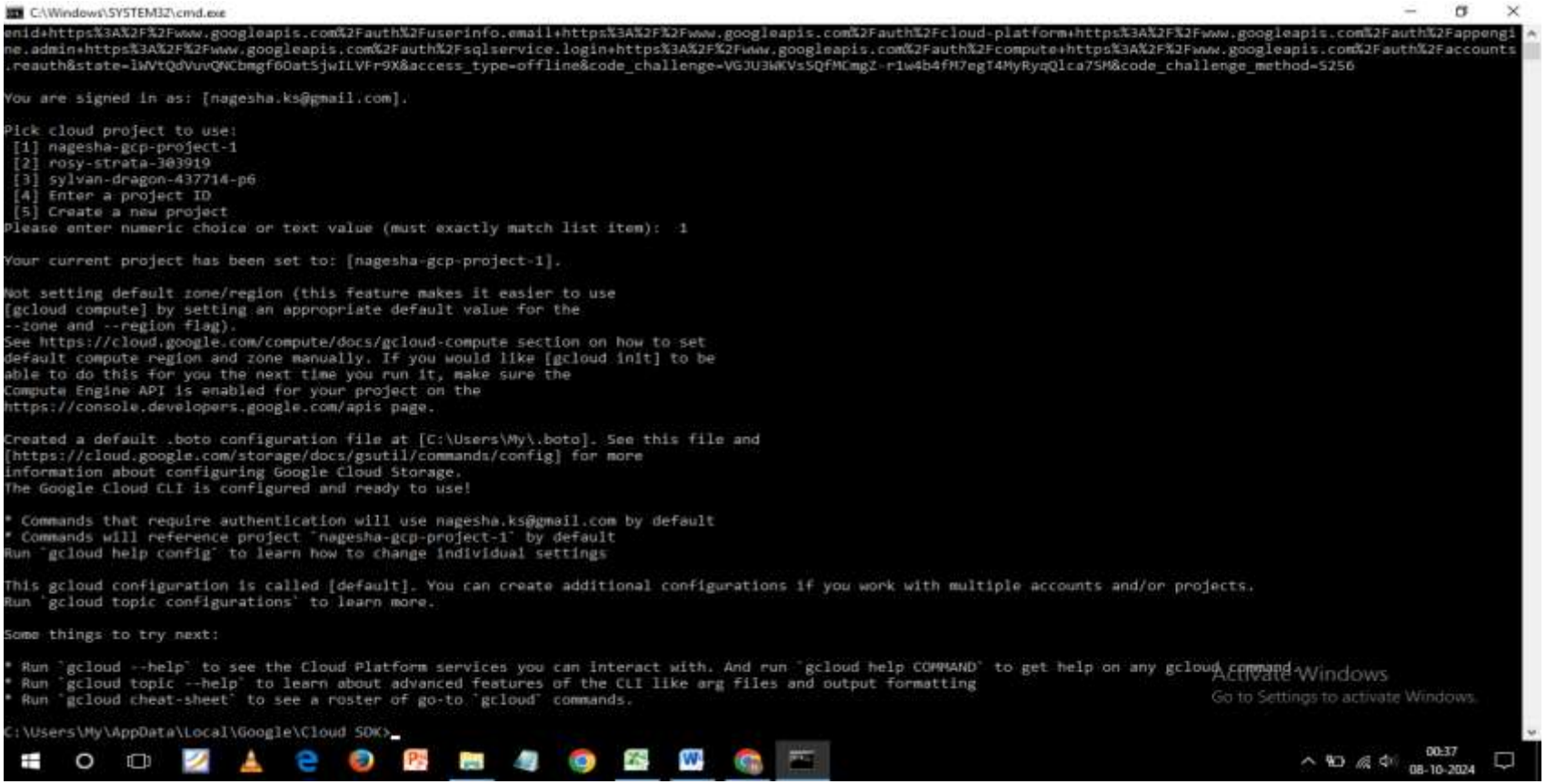
Managing gcloud CLI components
Scripting gcloud CLI commands
Enabling accessibility features
Using gcloud interactive shell
Uninstalling the gcloud CLI
Google Cloud CLI Setup
Google Cloud
Downloading Google Cloud CLI core.
Output folder: C:\Users\My\AppData\Local\Google\Cloud SDK
Downloading Google Cloud CLI core.
< Back
Next >
Cancel
Linux
2012 and later.
ommands:
(New-Object Net.WebClient).DownloadFile('https://dl.google.com/dl/cloudsdk/channels/r
& $env:Temp\GoogleCloudSDKInstaller.exe
2. Launch the installer and follow the prompts. The installer is signed by Google LLC.
On this page
Installation instructions
Other installation options
Manage an installation
Earlier versions of the gcloud CLI
Supported Python versions
Activate Windows
Go to Settings to activate Windows.
00:26
08-10-2024

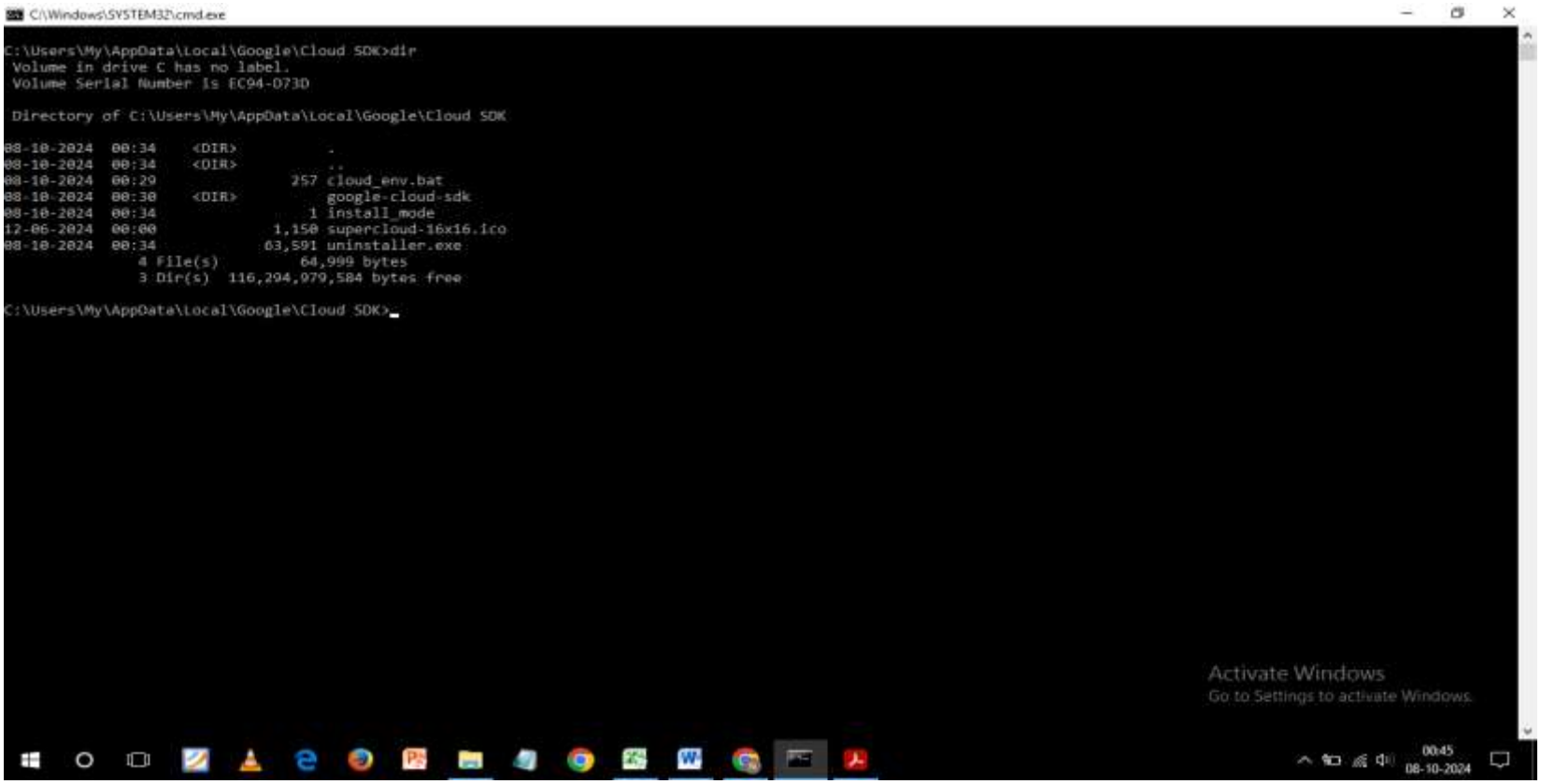

Uninstalling the gcloud CLI
Google Cloud CLI Setup
Completing Google Cloud CLI Setup
Google Cloud CLI has been installed on your computer.
Click Finish to close Setup.
Create Start Menu shortcut
Create Desktop shortcut
Start Google Cloud SDK Shell
Run 'gcloud init' to configure the Google Cloud CLI
< Back
Finish
Cancel
Activate Windows
Go to Settings to activate Windows.
Sheet1
Ready
00:26
08-10-2024
00:35
08-10-2024

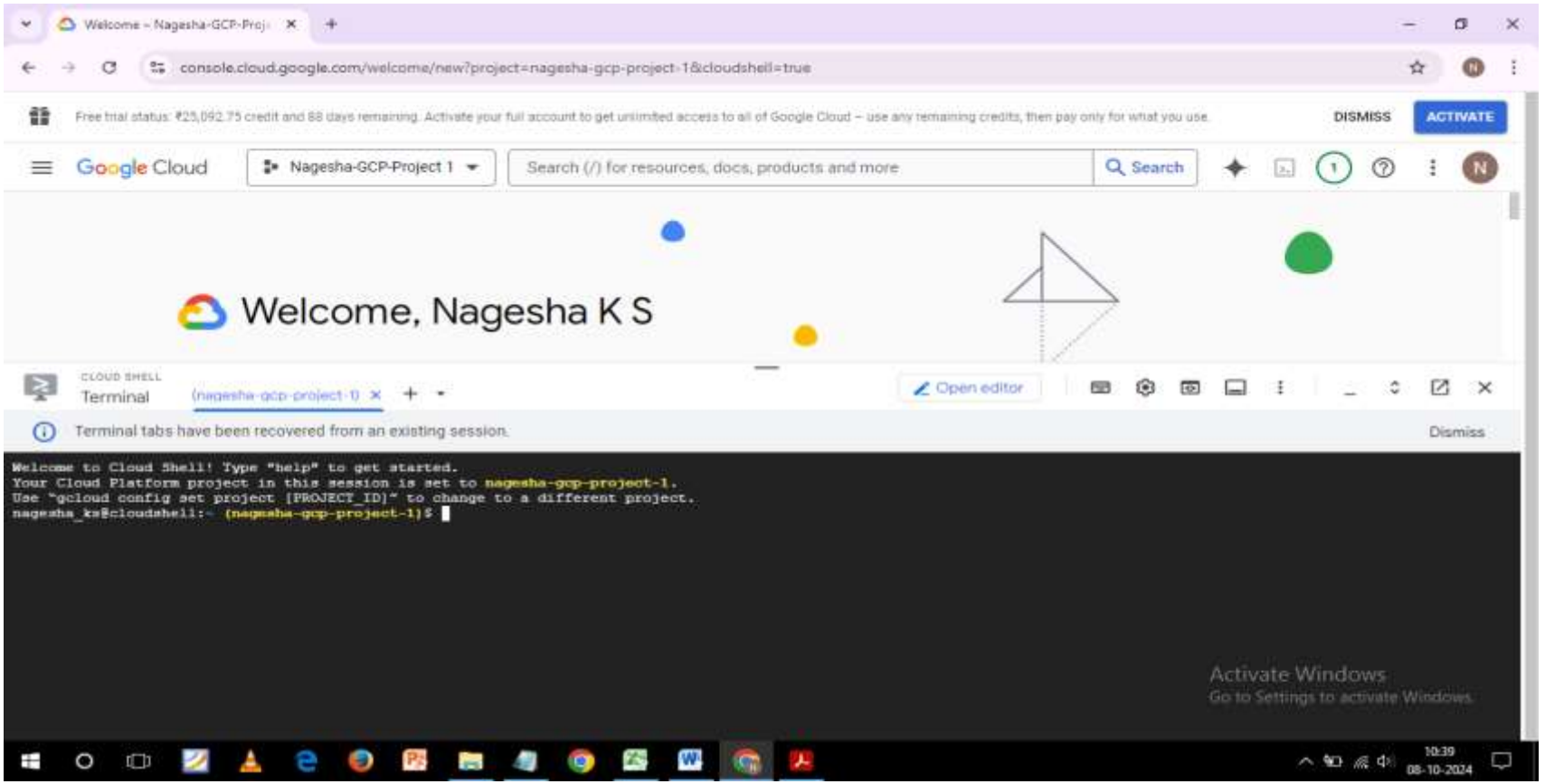

gcloud init
Welcome to the Google Cloud CLI! Run "gcloud -h" to get the list of available commands.
Welcome! This command will take you through the configuration of gcloud.
Your current configuration has been set to: [default]
You can skip diagnostics next time by using the following flag:
gcloud init --skip-diagnostics
Network diagnostic detects and fixes local network connection issues.
Checking network connection...working
Google Cloud CLI Setup
Completing Google Cloud CLI Setup
Google Cloud CLI has been installed on your computer.
Uninstalling the gcloud CLI
Activate Windows
Go to Settings to activate Windows.
Switch Windows
Macros
Sheet1
Ready

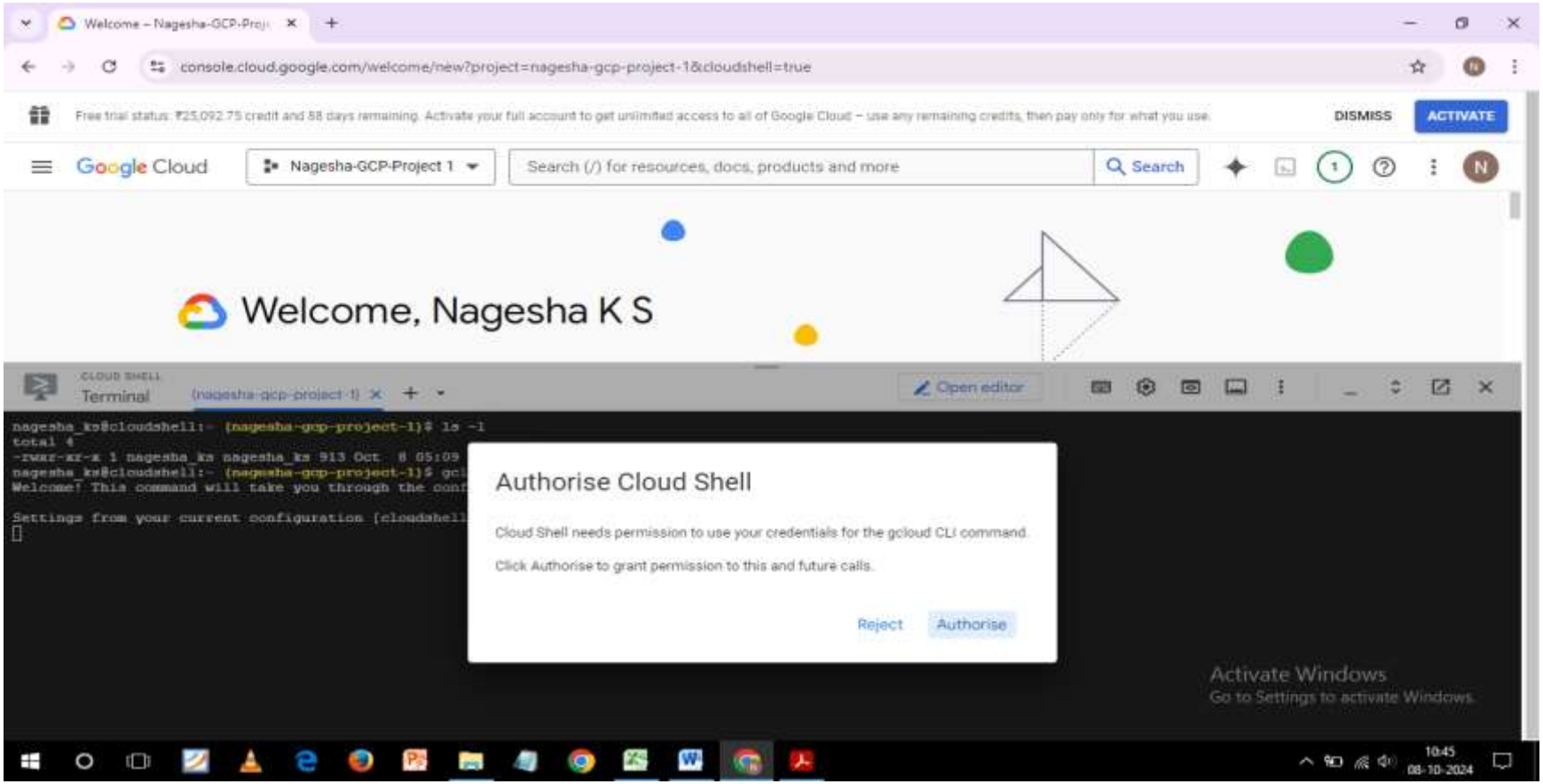

cloud.google.com/sdk/auth_success
Google Cloud
Documentation
Technology areas
Cross-product tools
Search
English
Console
Cloud SDK
Contact Us
Cloud SDK > Documentation
Was this helpful?
You are now authenticated with the gcloud CLI!
Send feedback
On this page
Information about command-line tools and client libraries
Tutorials
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.
Activate Windows
Go to Settings to activate Windows.
00:36
08-10-2024

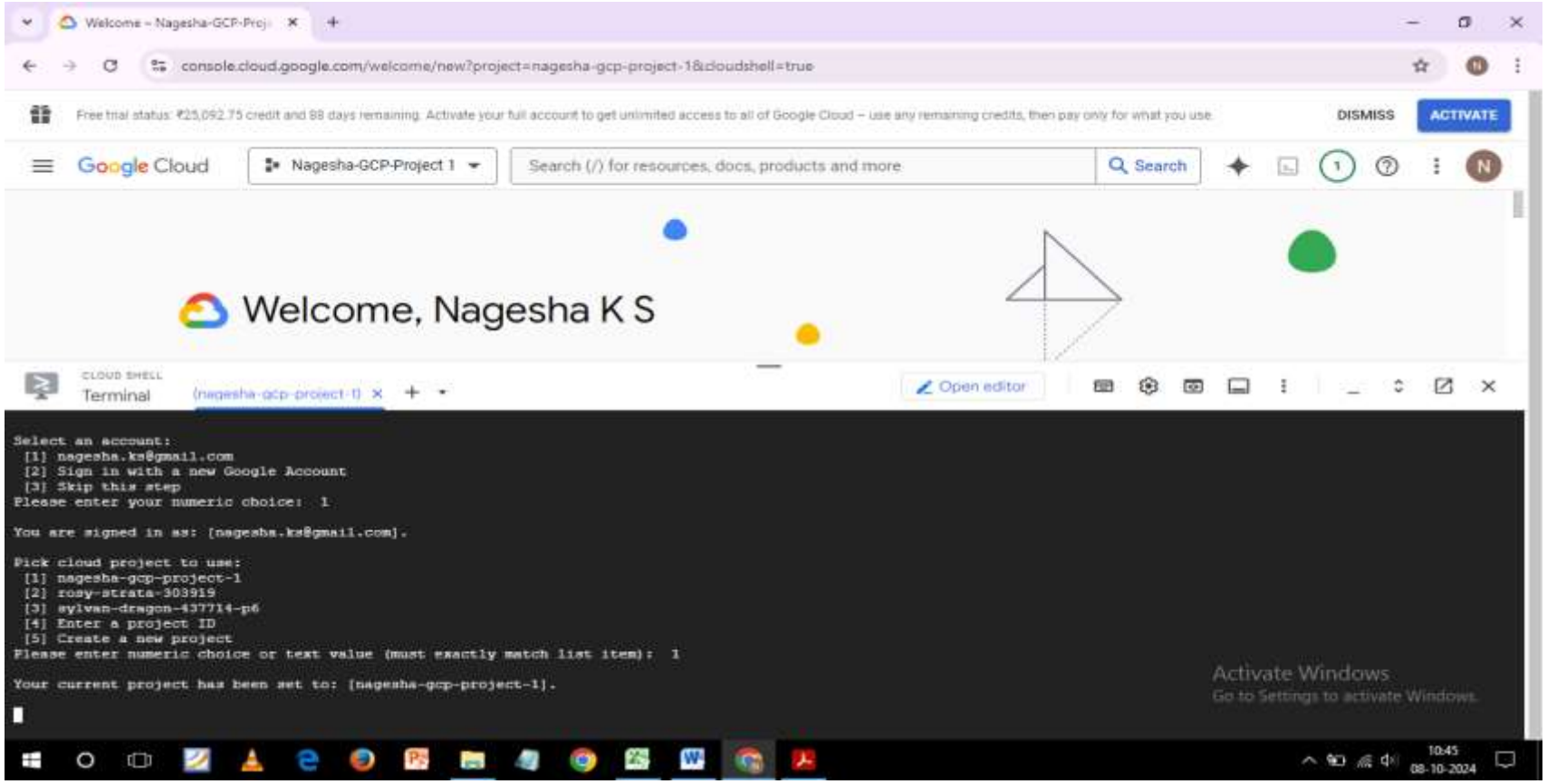

gcloud init
Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).
You must sign in to continue. Would you like to sign in (Y/n)? Y
Your browser has been opened to visit:
https://accounts.google.com/o/oauth2/auth?response_type=code&client_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=lWVtQdVuvQNCbmgf6OatSjwILVFr9X&access_type=offline&code_challenge=VGJU3WKVs5QfMCmgZ-r1w4b4fM7egT4MyRyqQIca7SM&code_challenge_method=S256
You are signed in as: [nagesha.ks@gmail.com].
Pick cloud project to use:
[1] nagesha-gcp-project-1
[2] rosy-strata-303919
[3] sylvan-dragon-437714-p6
[4] Enter a project ID
[5] Create a new project
Please enter numeric choice or text value (must exactly match list item): 1
Your current project has been set to: [nagesha-gcp-project-1].
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.
Activate Windows
Go to Settings to activate Windows.
00:36
08-10-2024


C:\Windows\SYSTEM32\cmd.exe
enid+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=lWVtQdVuvQNCbmgf6OatSjwILVFr9X&access_type=offline&code_challenge=VGJU3WKVsSQfMCmgZ-r1w4b4fM7egT4MyRyqQlca7SM&code_challenge_method=S256
You are signed in as: [nagesha.ks@gmail.com].
Pick cloud project to use:
[1] nagesha-gcp-project-1
[2] rosy-strata-303919
[3] sylvan-dragon-437714-p6
[4] Enter a project ID
[5] Create a new project
Please enter numeric choice or text value (must exactly match list item): 1
Your current project has been set to: [nagesha-gcp-project-1].
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\My\.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 nagesha.ks@gmail.com by default
* Commands will reference project `nagesha-gcp-project-1` 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 on 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\My\AppData\Local\Google\Cloud SDK>
Activate Windows
Go to Settings to activate Windows.
00:37
08-10-2024


C:\Windows\SYSTEM32\cmd.exe
C:\Users\My\AppData\Local\Google\Cloud SDK>dir
Volume in drive C has no label.
Volume Serial Number is EC94-D73D
Directory of C:\Users\My\AppData\Local\Google\Cloud SDK
08-10-2024 00:34 <DIR> .
08-10-2024 00:34 <DIR> ..
08-10-2024 00:29 257 cloud_env.bat
08-10-2024 00:30 <DIR> google-cloud-sdk
08-10-2024 00:34 1 install_mode
12-06-2024 00:00 1,150 supercloud-16x16.ico
08-10-2024 00:34 63,591 uninstaller.exe
4 File(s) 64,999 bytes
3 Dir(s) 116,294,979,584 bytes free
C:\Users\My\AppData\Local\Google\Cloud SDK>
Activate Windows
Go to Settings to activate Windows.
00:45
08-10-2024


Welcome - Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1&cloudshell=true
Free trial status: ₹25,092.75 credit and 88 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.
DISMISS
ACTIVATE
Google Cloud
Nagesha-GCP-Project 1
Search (/) for resources, docs, products and more
Search
Welcome, Nagesha K S
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
Terminal tabs have been recovered from an existing session.
Dismiss
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to nagesha-gcp-project-1.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
10:39
08-10-2024


Welcome – Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1&cloudshell=true
Free trial status: ₹25,092.75 credit and 88 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.
DISMISS
ACTIVATE
Google Cloud
Nagesha-GCP-Project 1
Search (/) for resources, docs, products and more
Search
Welcome, Nagesha K S
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ ls -l
total 4
-rwxr-xr-x 1 nagesha_ks nagesha_ks 913 Oct 8 05:09
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcl
Welcome! This command will take you through the conf
Settings from your current configuration [cloudshell
Authorise Cloud Shell
Cloud Shell needs permission to use your credentials for the gcloud CLI command.
Click Authorise to grant permission to this and future calls.
Reject
Authorise
Activate Windows
Go to Settings to activate Windows.
10:45
08-10-2024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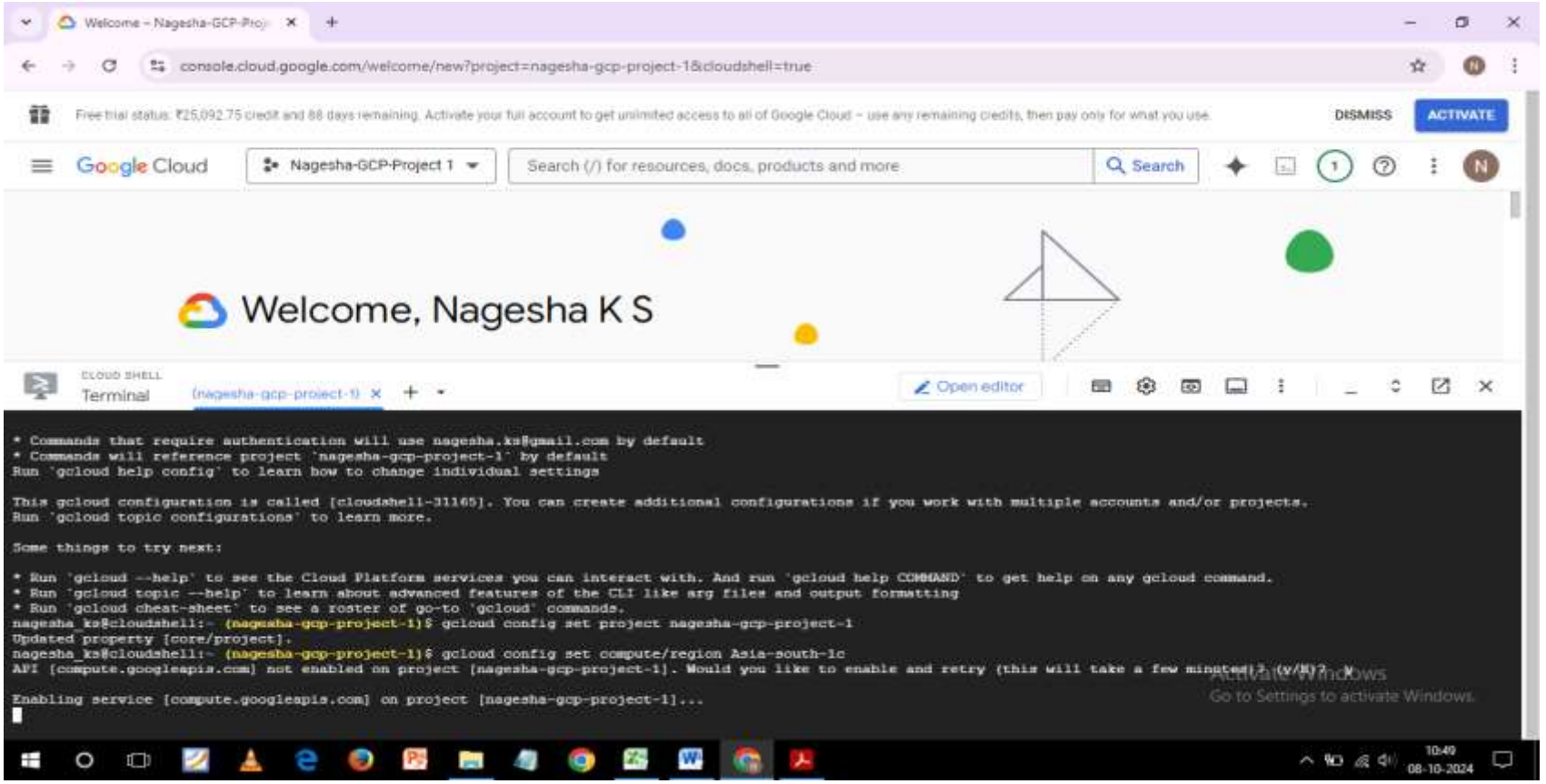
DISMISS
ACTIVATE
Google Cloud
Nagesha-GCP-Project 1
Search (/) for resources, docs, products and more
Search
Welcome, Nagesha K S
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
Select an account:
[1] nagesha.ks@gmail.com
[2] Sign in with a new Google Account
[3] Skip this step
Please enter your numeric choice: 1
You are signed in as: [nagesha.ks@gmail.com].
Pick cloud project to use:
[1] nagesha-gcp-project-1
[2] rosy-strata-303919
[3] sylvan-dragon-437714-p6
[4] Enter a project ID
[5] Create a new project
Please enter numeric choice or text value (must exactly match list item): 1
Your current project has been set to: [nagesha-gcp-project-1].
Activate Windows
Go to Settings to activate Windows.
10:45
08-10-2024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ACTIVATE
Google Cloud
Nagesha-GCP-Project 1
Search (/) for resources, docs, products and more
Search
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Terminal
(nagesha-gcp-project-1)
Open editor
* Commands that require authentication will use nagesha.ks@gmail.com by default
* Commands will reference project `nagesha-gcp-project-1` by default
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This gcloud configuration is called [cloudshell-31165]. You can create additional configurations if you work with multiple accounts and/or projects.
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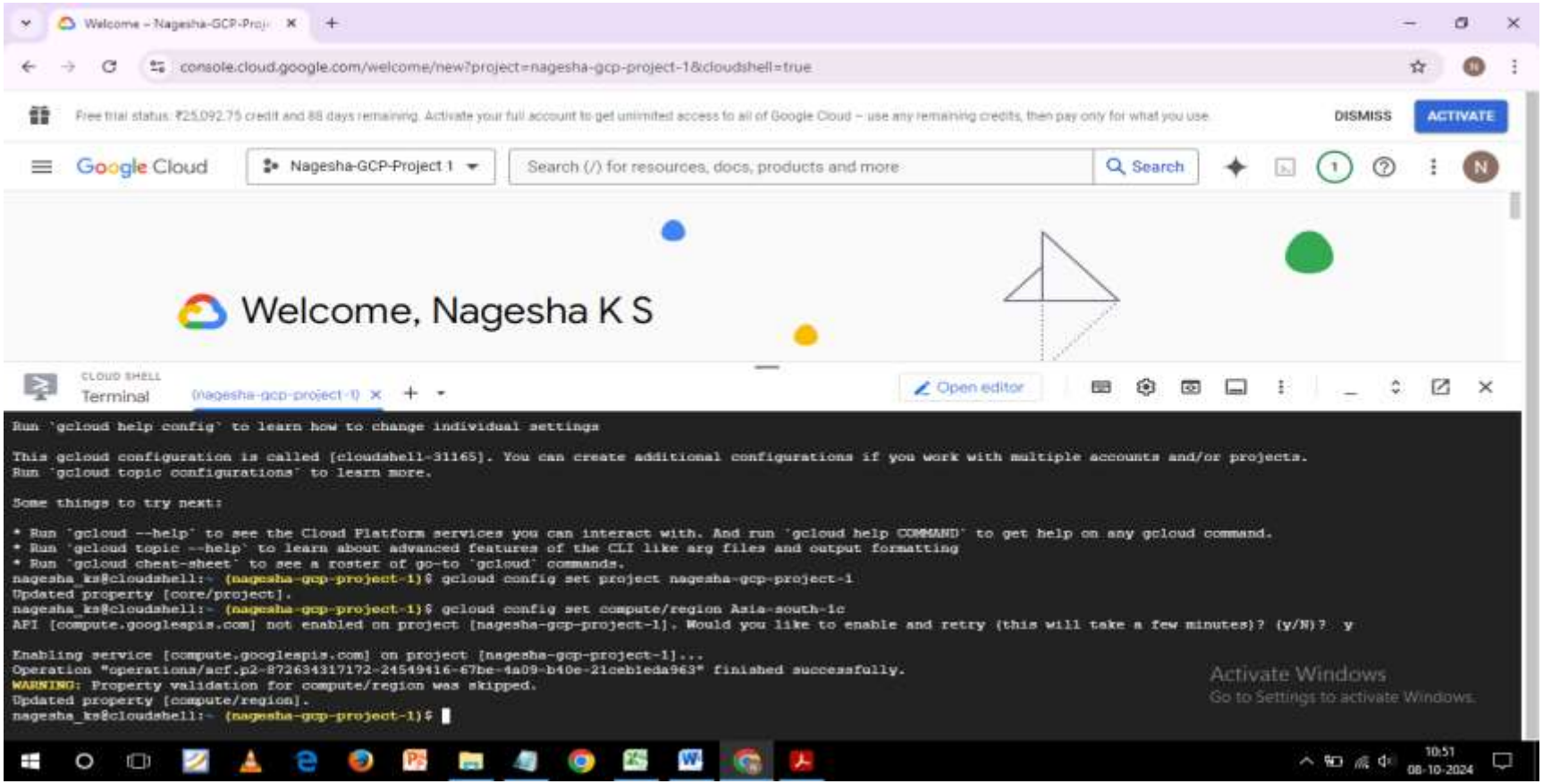
* Run `gcloud topic --help` to learn about advanced features of the CLI like arg files and output formatting
* Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud config set project nagesha-gcp-project-1
Updated property [core/project].
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud config set compute/region Asia-south-1c
API [compute.googleapis.com] not enabled on project [nagesha-gcp-project-1]. Would you like to enable and retry (this will take a few minutes)? (y/N)? y
Enabling service [compute.googleapis.com] on project [nagesha-gcp-project-1]...
Activate Windows
Go to Settings to activate Windows.
10:49
08-10-2024


Welcome – Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1&cloudshell=true
Free trial status: ₹25,092.75 credit and 88 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.
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Nagesha-GCP-Project 1
Search (/) for resources, docs, products and more
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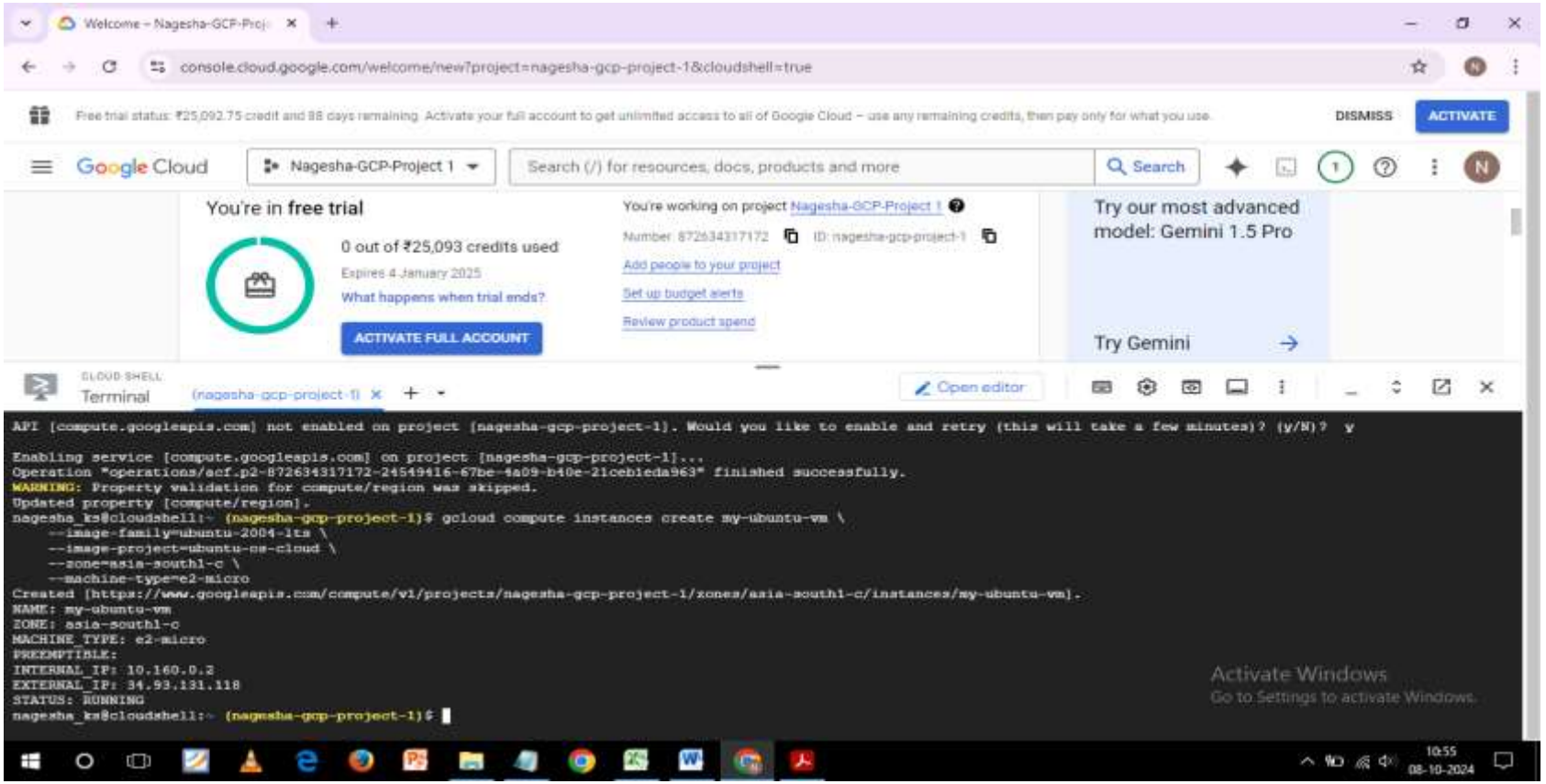
Welcome, Nagesha K S
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
Run `gcloud help config` to learn how to change individual settings
This gcloud configuration is called [cloudshell-31165]. You can create additional configurations if you work with multiple accounts and/or projects.
Run `gcloud 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 on 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.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud config set project nagesha-gcp-project-1
Updated property [core/project].
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud config set compute/region Asia-south-1c
API [compute.googleapis.com] not enabled on project [nagesha-gcp-project-1]. Would you like to enable and retry (this will take a few minutes)? (y/N)? y
Enabling service [compute.googleapis.com] on project [nagesha-gcp-project-1]...
Operation "operations/acf.p2-872634317172-24549416-67be-4a09-b40e-21cebleda963" finished successfully.
WARNING: Property validation for compute/region was skipped.
Updated property [compute/region].
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
10:51
08-10-2024


Welcome – Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1&cloudshell=true
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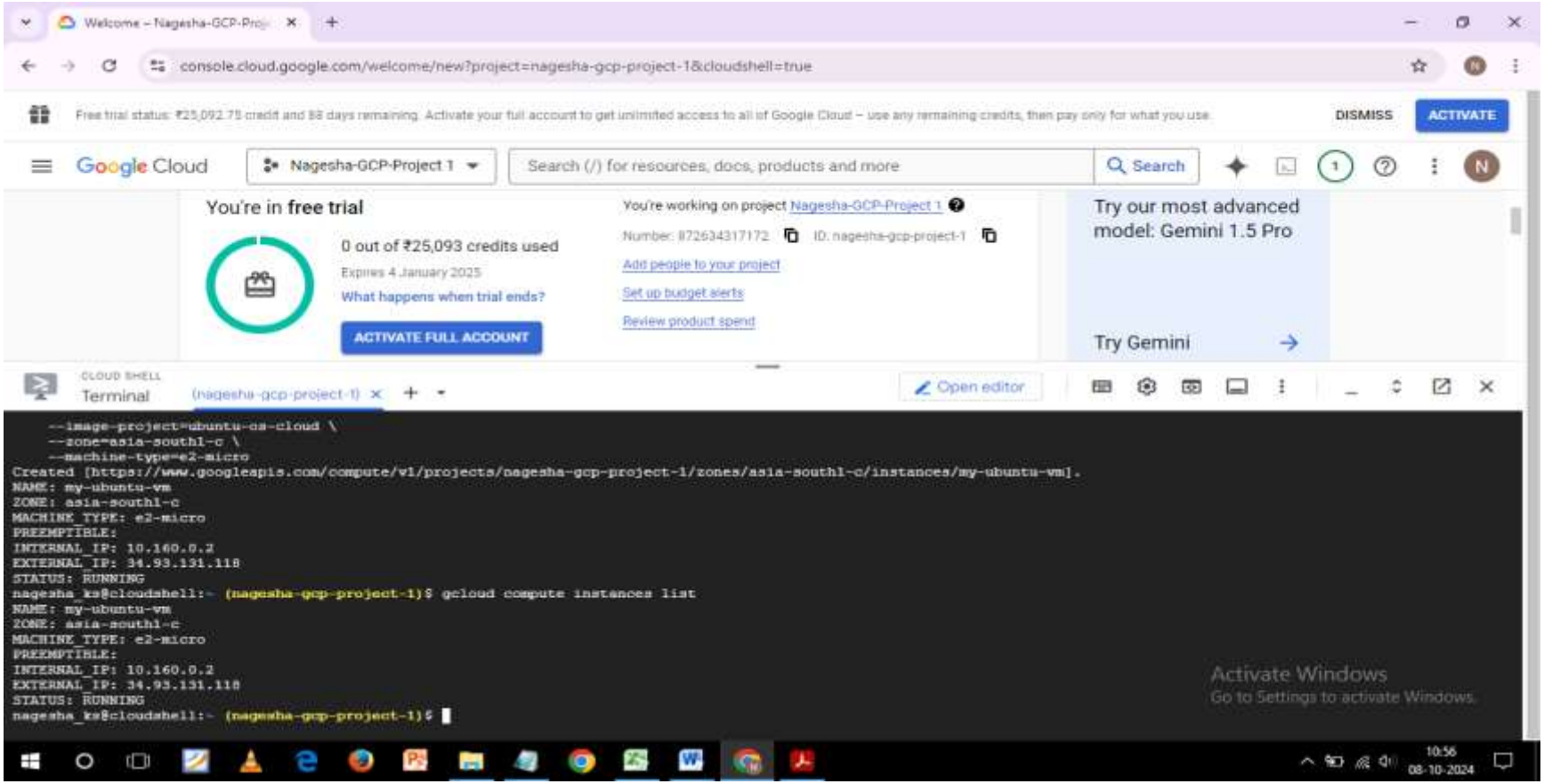
What happens when trial ends?
ACTIVATE FULL ACCOUNT
You're working on project Nagesha-GCP-Project 1
Number: 872634317172
ID: nagesha-gcp-project-1
Add people to your project
Set up budget alerts
Review product spend
Try our most advanced model: Gemini 1.5 Pro
Try Gemini
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
API [compute.googleapis.com] not enabled on project [nagesha-gcp-project-1]. Would you like to enable and retry (this will take a few minutes)? (y/N)? y
Enabling service [compute.googleapis.com] on project [nagesha-gcp-project-1]...
Operation "operations/acf.p2-872634317172-24549416-67be-4a09-b40e-21ceb1eda963" finished successfully.
WARNING: Property validation for compute/region was skipped.
Updated property [compute/region].
nagesha_km@cloudshell:~ (nagesha-gcp-project-1)$ gcloud compute instances create my-ubuntu-vm \
--image-family=ubuntu-2004-lts \
--image-project=ubuntu-os-cloud \
--zone=asia-south1-c \
--machine-type=e2-micro
Created [https://www.googleapis.com/compute/v1/projects/nagesha-gcp-project-1/zones/asia-south1-c/instances/my-ubuntu-vm].
NAME: my-ubuntu-vm
ZONE: asia-south1-c
MACHINE_TYPE: e2-micro
PREEMPTIBLE:
INTERNAL_IP: 10.160.0.2
EXTERNAL_IP: 34.93.131.118
STATUS: RUNNING
nagesha_km@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
10:55
08-10-2024


Welcome – Nagesha-GCP-Proj
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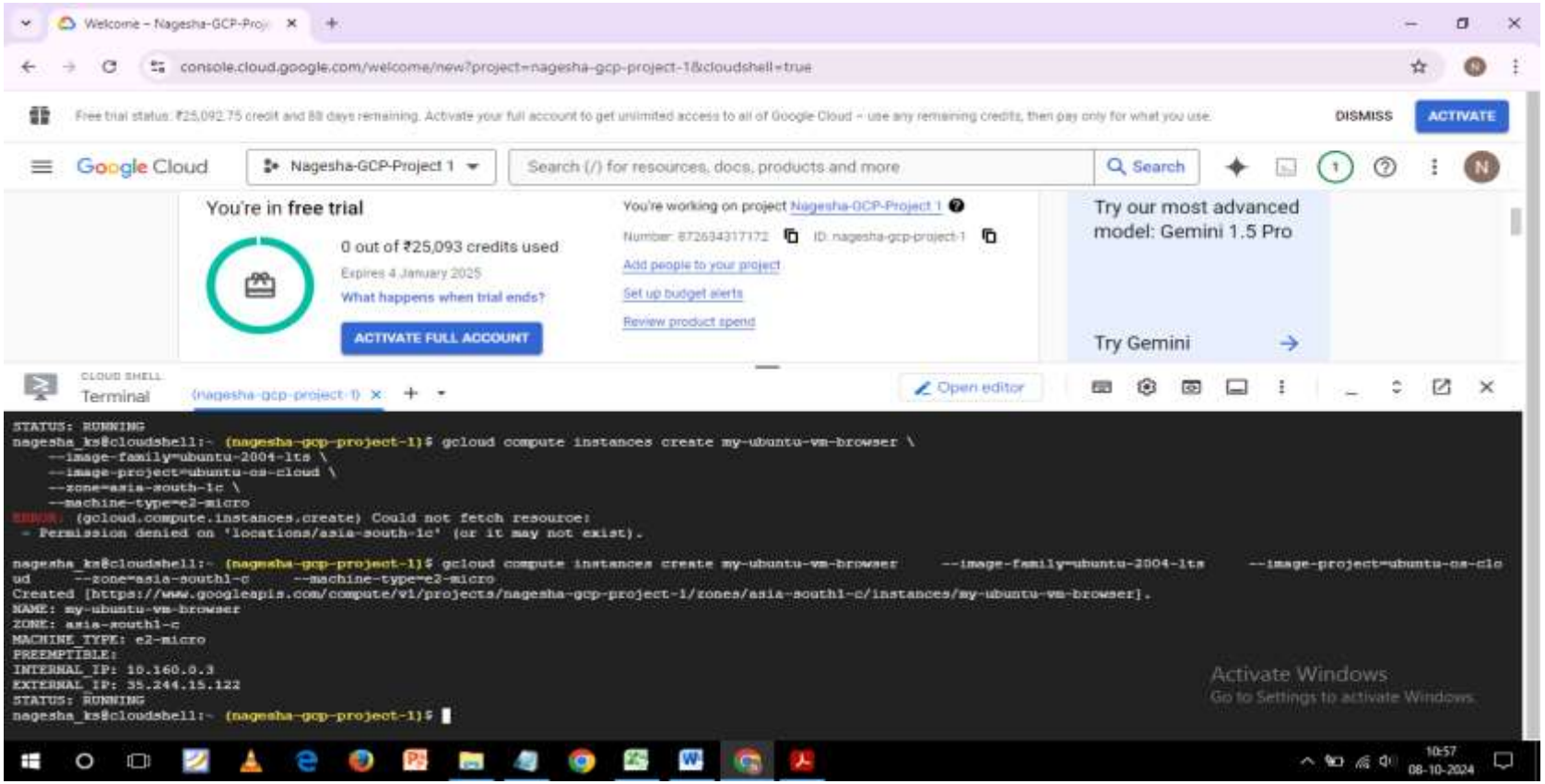
Number: 872634317172
ID: nagesha-gcp-project-1
Add people to your project
Set up budget alerts
Review product spend
Try our most advanced model: Gemini 1.5 Pro
Try Gemini
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
--image-project=ubuntu-os-cloud \
--zone=asia-south1-c \
--machine-type=e2-micro
Created [https://www.googleapis.com/compute/v1/projects/nagesha-gcp-project-1/zones/asia-south1-c/instances/my-ubuntu-vm].
NAME: my-ubuntu-vm
ZONE: asia-south1-c
MACHINE_TYPE: e2-micro
PREEMPTIBLE:
INTERNAL_IP: 10.160.0.2
EXTERNAL_IP: 34.93.131.118
STATUS: RUNNING
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud compute instances list
NAME: my-ubuntu-vm
ZONE: asia-south1-c
MACHINE_TYPE: e2-micro
PREEMPTIBLE:
INTERNAL_IP: 10.160.0.2
EXTERNAL_IP: 34.93.131.118
STATUS: RUNNING
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
10:56
08-10-2024


Welcome – Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1&cloudshell=true
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You're working on project Nagesha-GCP-Project 1
Number: 872634317172
ID: nagesha-gcp-project-1
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Set up budget alerts
Review product spend
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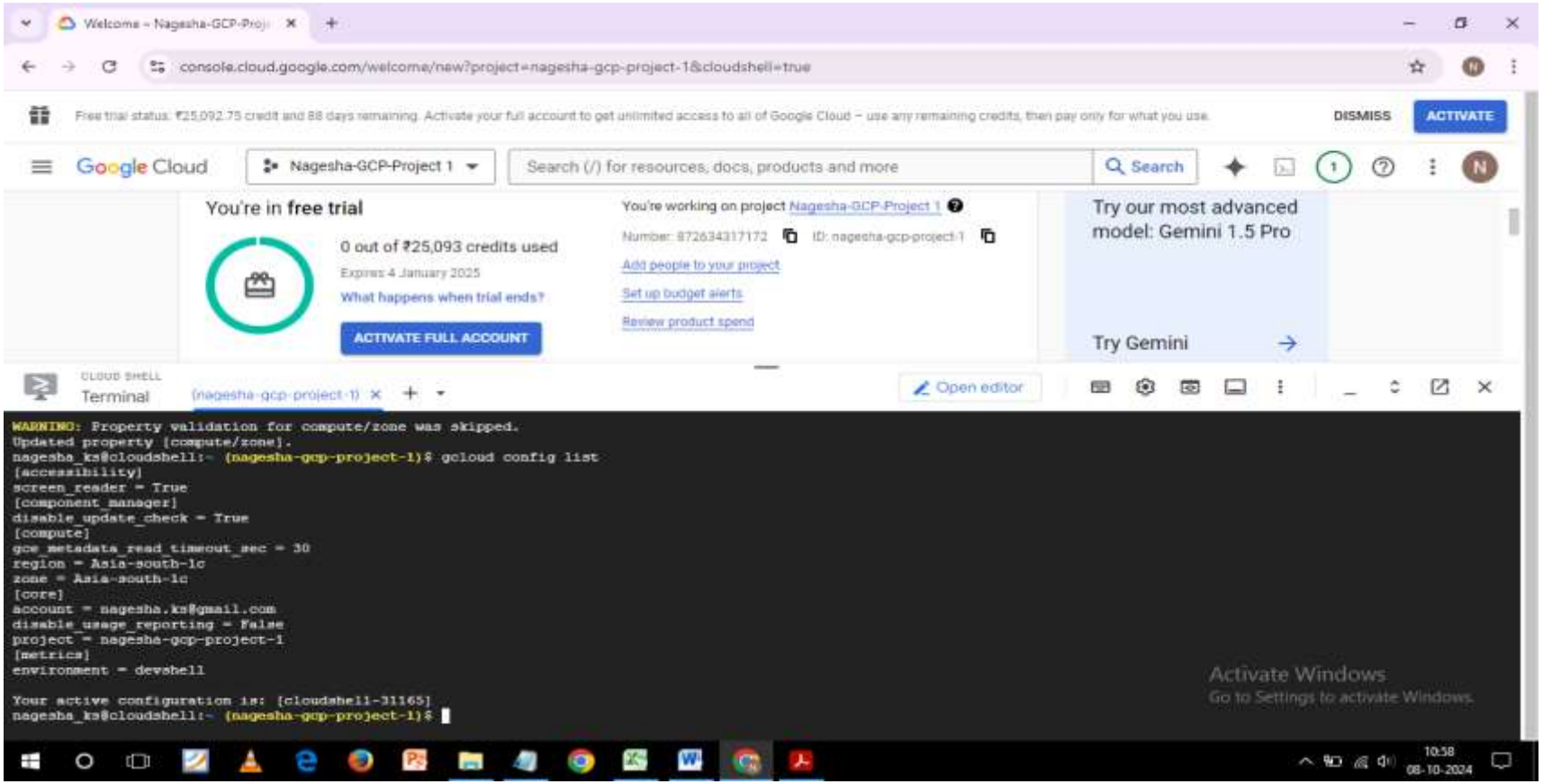
Try Gemini
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
STATUS: RUNNING
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud compute instances create my-ubuntu-vm-browser \
--image-family=ubuntu-2004-lts \
--image-project=ubuntu-os-cloud \
--zone=asia-south1-c \
--machine-type=e2-micro
ERROR: (gcloud.compute.instances.create) Could not fetch resource:
- Permission denied on 'locations/asia-south1-c' (or it may not exist).
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud compute instances create my-ubuntu-vm-browser --image-family=ubuntu-2004-lts --image-project=ubuntu-os-cloud --zone=asia-south1-c --machine-type=e2-micro
Created [https://www.googleapis.com/compute/v1/projects/nagesha-gcp-project-1/zones/asia-south1-c/instances/my-ubuntu-vm-browser].
NAME: my-ubuntu-vm-browser
ZONE: asia-south1-c
MACHINE_TYPE: e2-micro
PREEMPTIBLE:
INTERNAL_IP: 10.160.0.3
EXTERNAL_IP: 35.244.15.122
STATUS: RUNNING
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
10:57
08-10-2024


Welcome - Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1&cloudshell=true
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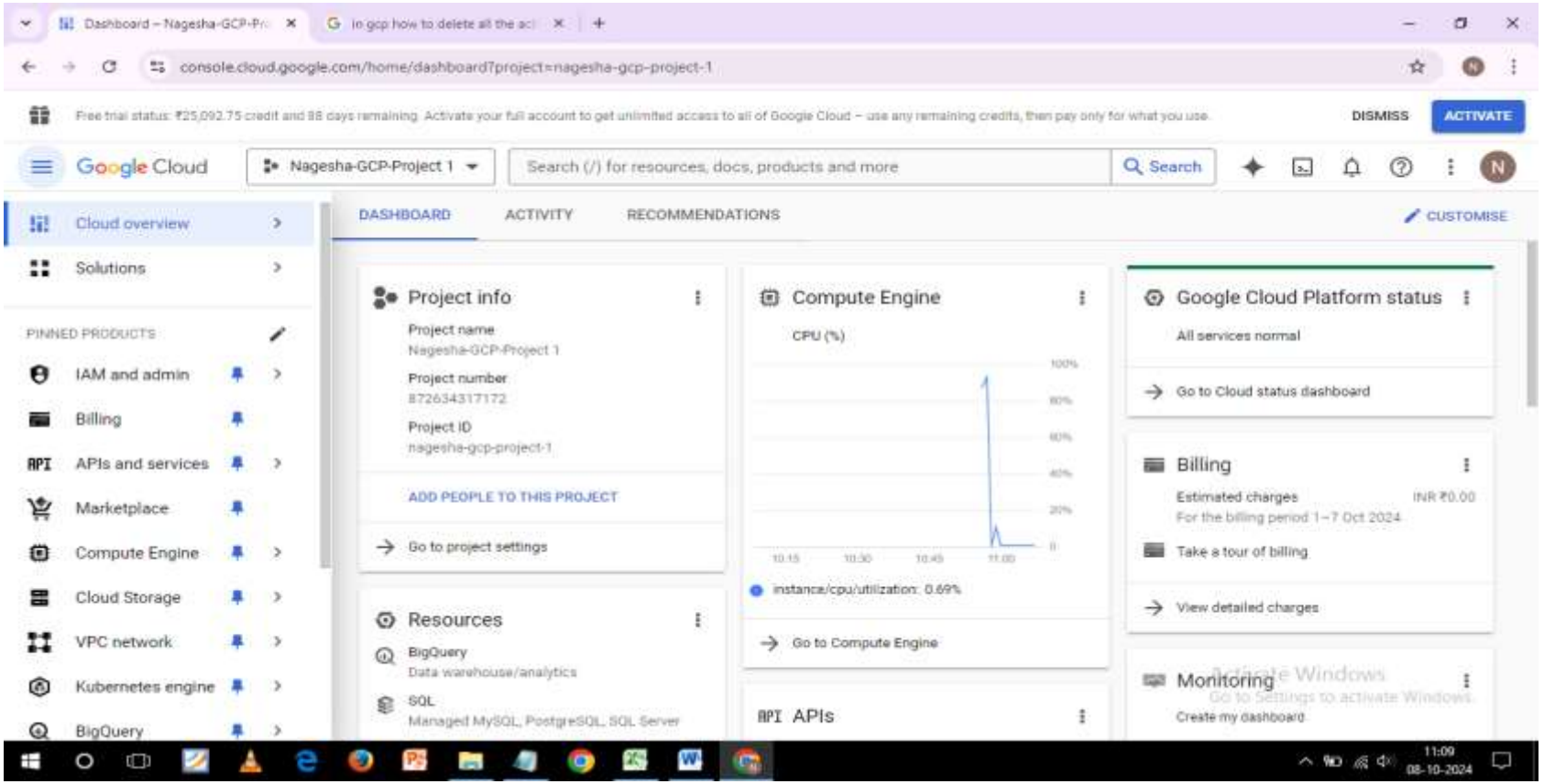
Add people to your project
Set up budget alerts
Review product spend
Try our most advanced model: Gemini 1.5 Pro
Try Gemini
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
WARNING: Property validation for compute/zone was skipped.
Updated property [compute/zone].
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud config list
[accessibility]
screen_reader = True
[component_manager]
disable_update_check = True
[compute]
gce_metadata_read_timeout_sec = 30
region = Asia-south-1c
zone = Asia-south-1c
[core]
account = nagesha.ks@gmail.com
disable_usage_reporting = False
project = nagesha-gcp-project-1
[metrics]
environment = devshell
Your active configuration is: [cloudshell-31165]
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
10:58
08-10-2024


Dashboard – Nagesha-GCP-Pr
console.cloud.google.com/home/dashboard?project=nagesha-gcp-project-1
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Billing
APIs and services
Marketplace
Compute Engine
Cloud Storage
VPC network
Kubernetes engine
BigQuery
DASHBOARD
ACTIVITY
RECOMMENDATIONS
CUSTOMISE
Project info
Project name
Nagesha-GCP-Project 1
Project number
872634317172
Project ID
nagesha-gcp-project-1
ADD PEOPLE TO THIS PROJECT
Go to project settings
Resources
BigQuery
Data warehouse/analytics
SQL
Managed MySQL, PostgreSQL, SQL Server
Compute Engine
CPU (%)
100%
80%
60%
40%
20%
0
10:15
10:30
10:45
11:00
instance/cpu/utilization: 0.69%
Go to Compute Engine
APIs
Google Cloud Platform status
All services normal
Go to Cloud status dashboard
Billing
Estimated charges
INR ₹0.00
For the billing period 1–7 Oct 2024
Take a tour of billing
View detailed charges
Monitoring
Create my dashboard
Activate Windows
Go to Settings to activate Windows.
11:09
08-10-2024

Commands

Signed up on GCP for Free Tier

Created a New Project **nagesha-gcp-project-1**

Installe the Google Cloud SDK (gcloud) for local commands

gcloud init

gcloud config set project nagesha-gcp-project-1 #select the project

gcloud config set compute/region Asia-south-1c   #computer region

Deploy an Ubuntu VM using gcloud via local, browser, and console methods

Using gcloud Local

```
gcloud compute instances create my-ubuntu-vm \
    --image-family=ubuntu-2004-lts \
    --image-project=ubuntu-os-cloud \
    --zone=asia-south-1c \
    --machine-type=e2-micro

gcloud compute instances list  #Verify the instance creation
```

Using gcloud from the Browser

Activate Cloud Shell

```
gcloud compute instances create my-ubuntu-vm-browser \
    --image-family=ubuntu-2004-lts \
    --image-project=ubuntu-os-cloud \
    --zone=asia-south-1c \
    --machine-type=e2-micro
```

Using the Web Console

Compute Engine > VM instances

Click Create Instance
Choose the Region as asia-south1 and Zone as asia-south1-c
Under Machine configuration, select e2-micro.
In the Boot disk section, click Change and select Ubuntu 20.04 LTS.
Click Create to deploy the VM

Change the Default Region of VM Deployment to asia-south-1c
gcloud config set compute/region Asia-south-1c
gcloud config set compute/zone Asia-south-1c
gcloud config list