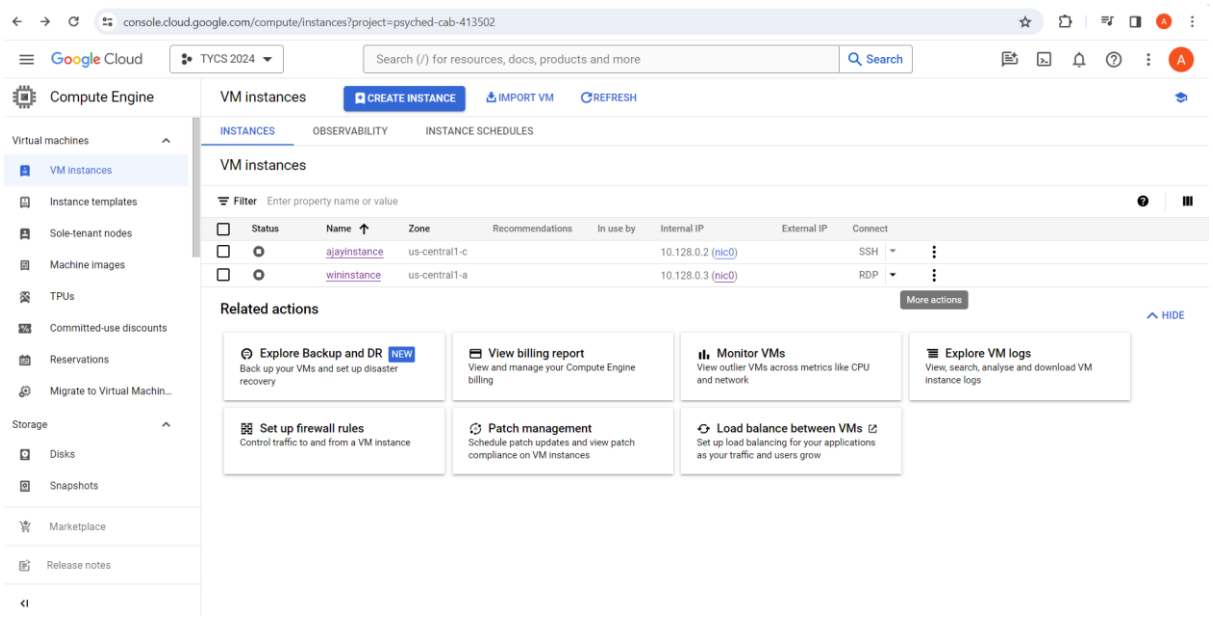
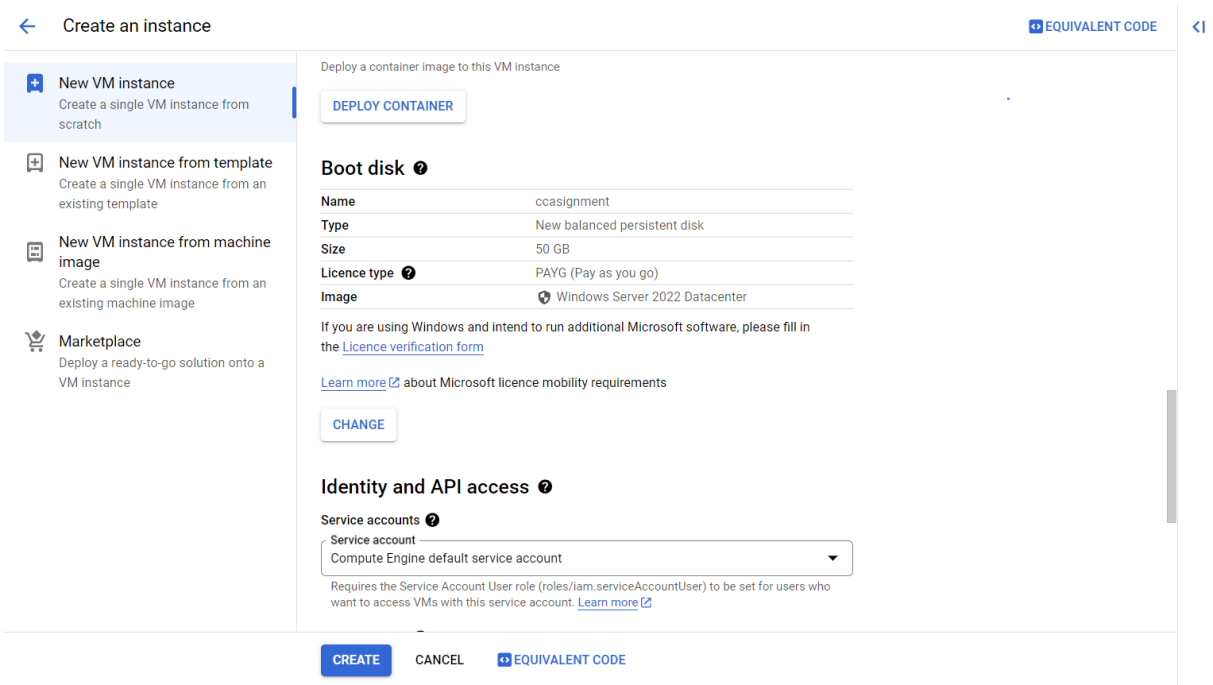
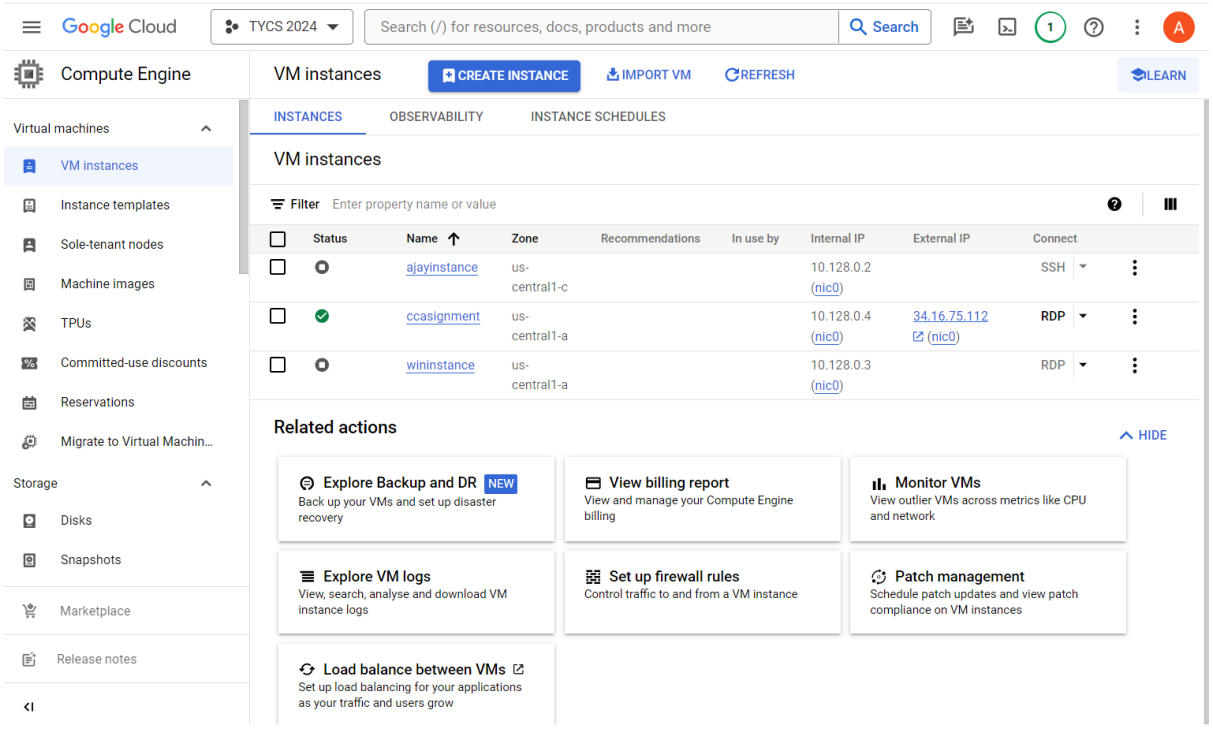
1)

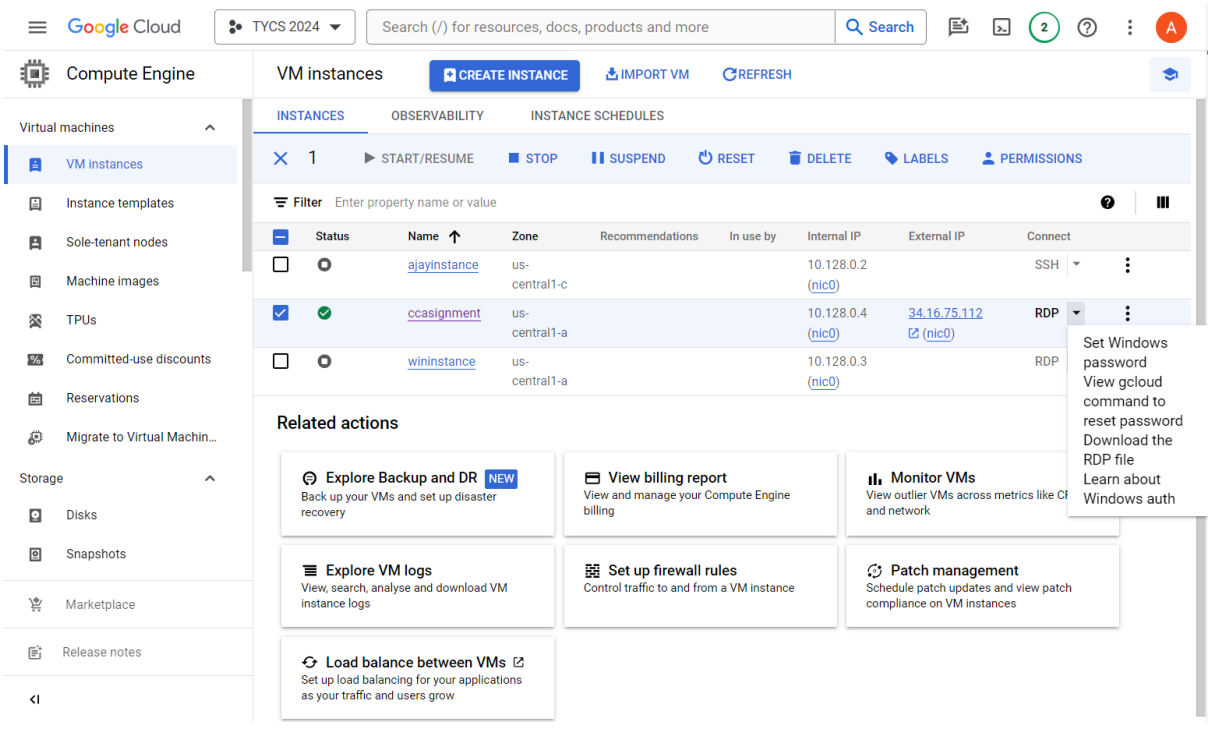
Create a new Instance with Window Server



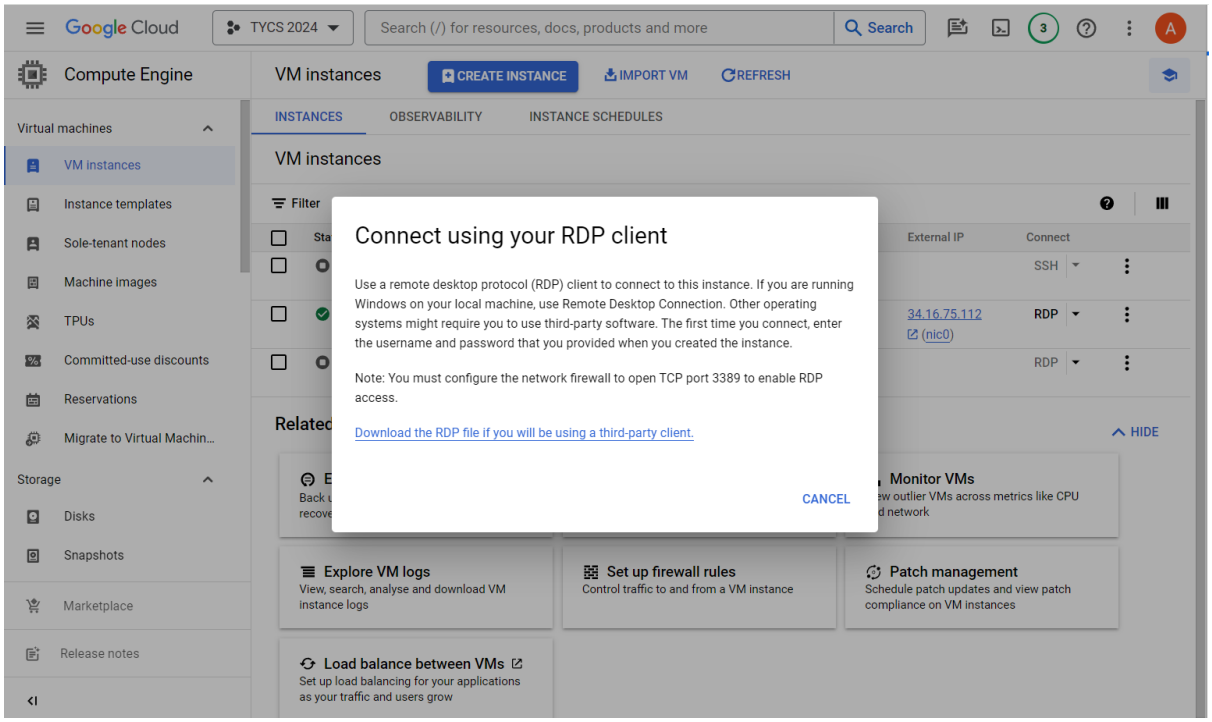




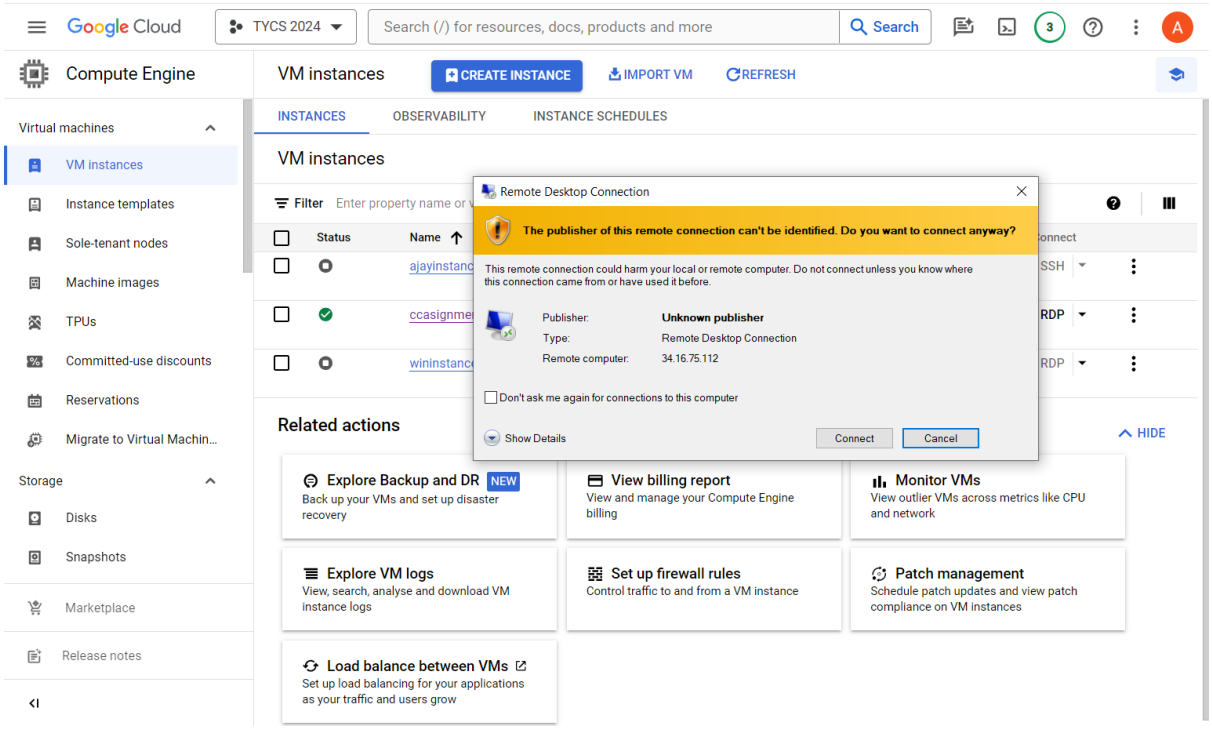
Set Window Password by clicking on RDP



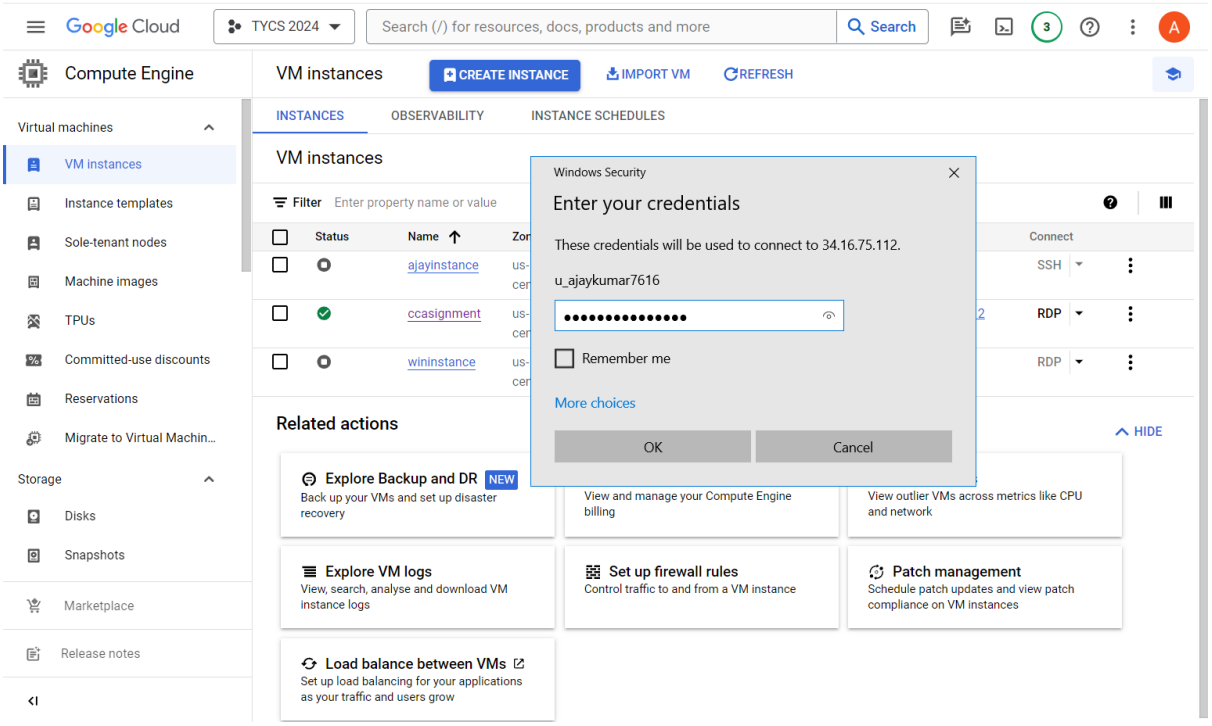
Download the RDP file

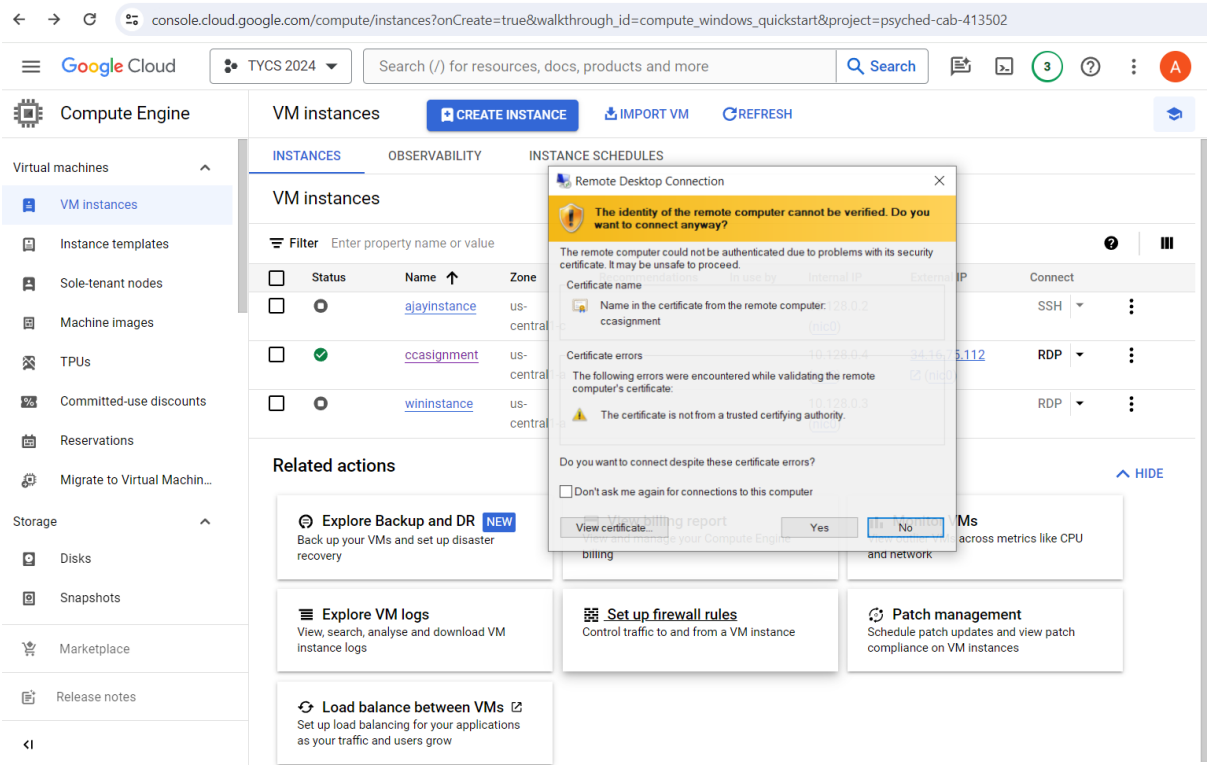


Click on the download RDP file to start window instance

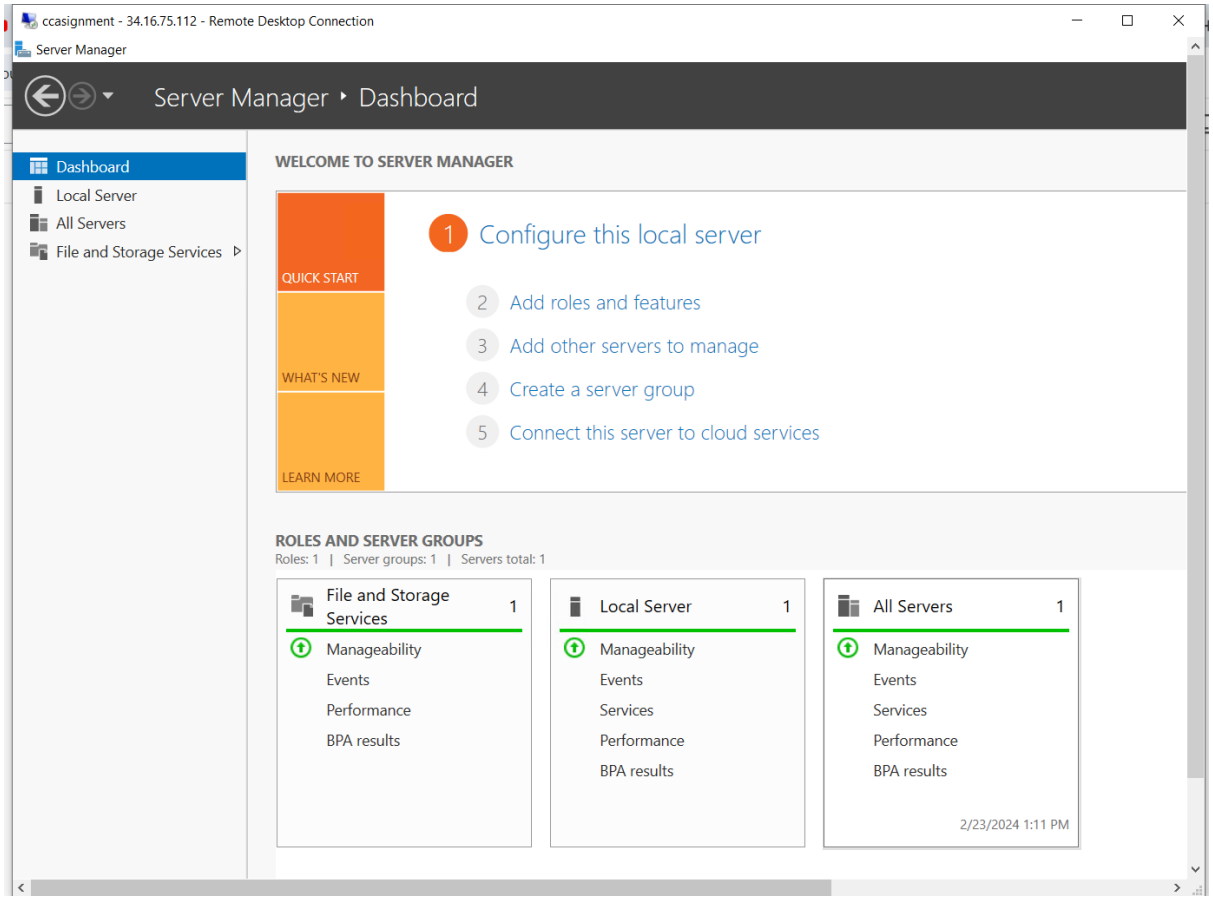


Input username and password which has been set

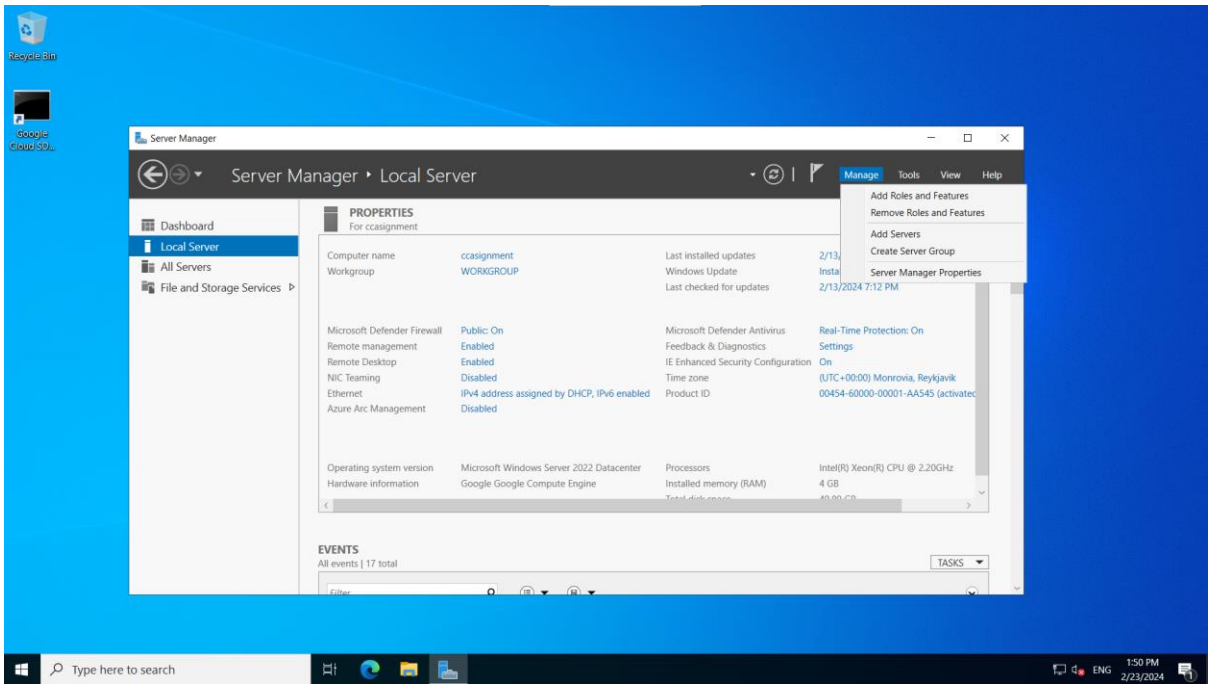




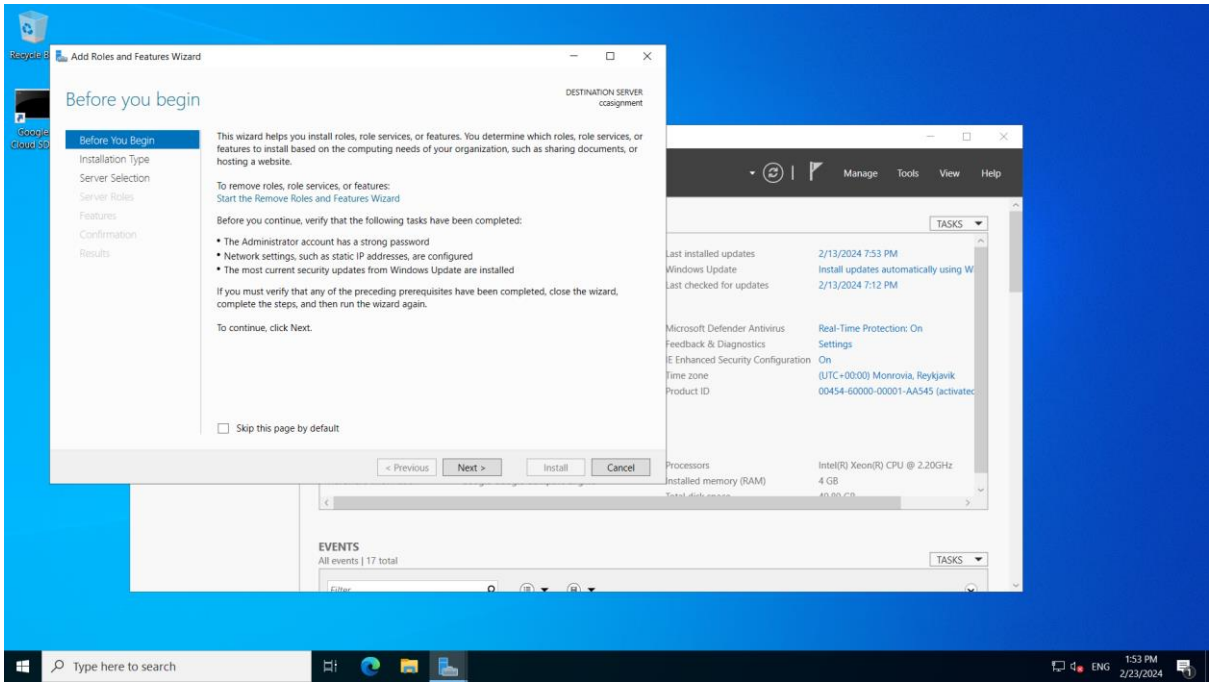
When the window instance you will get a Server manager application

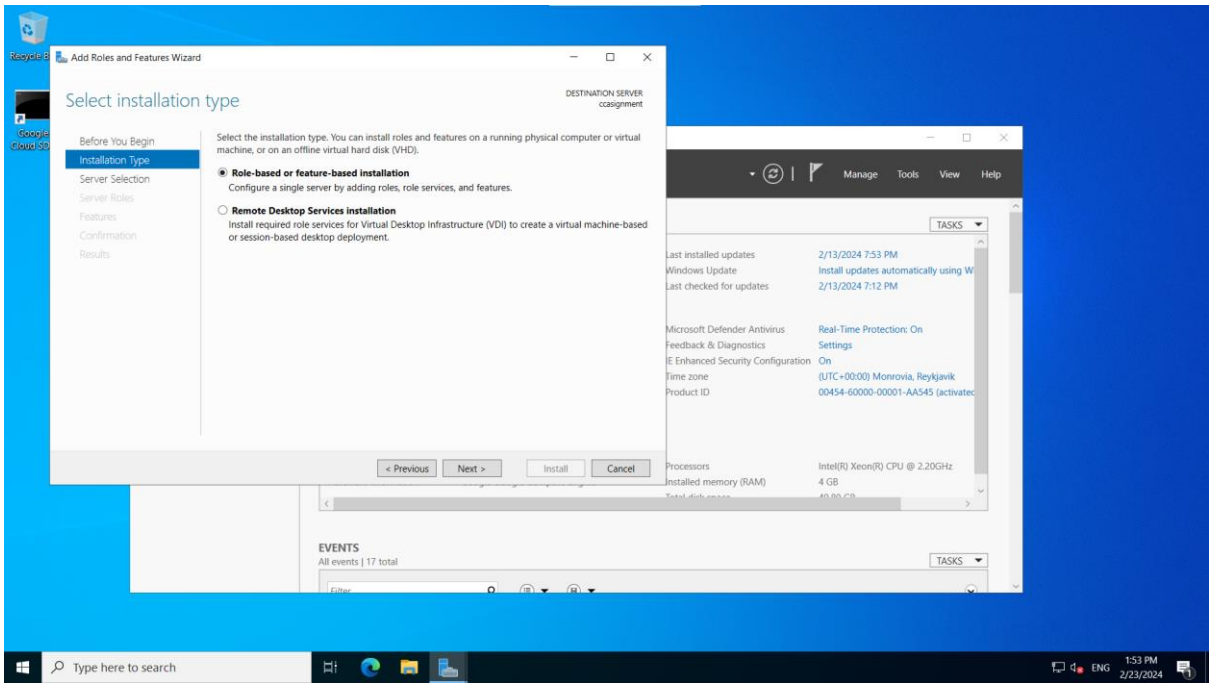


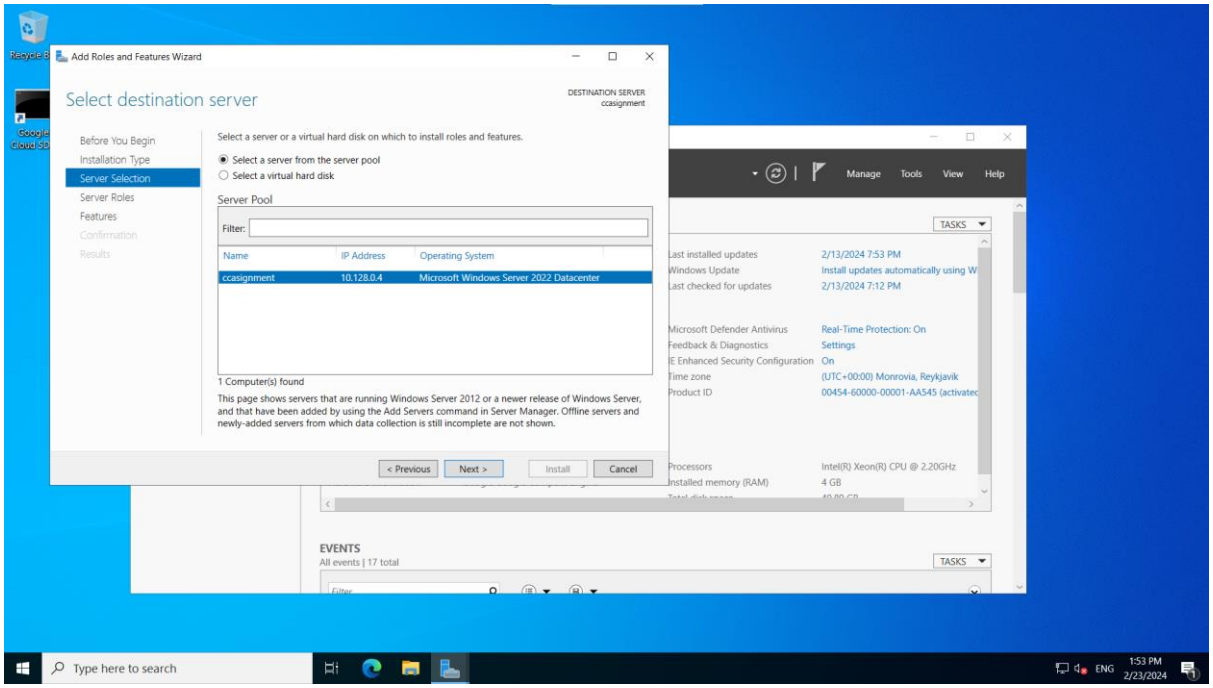
Select Add Roles and Features from the manage



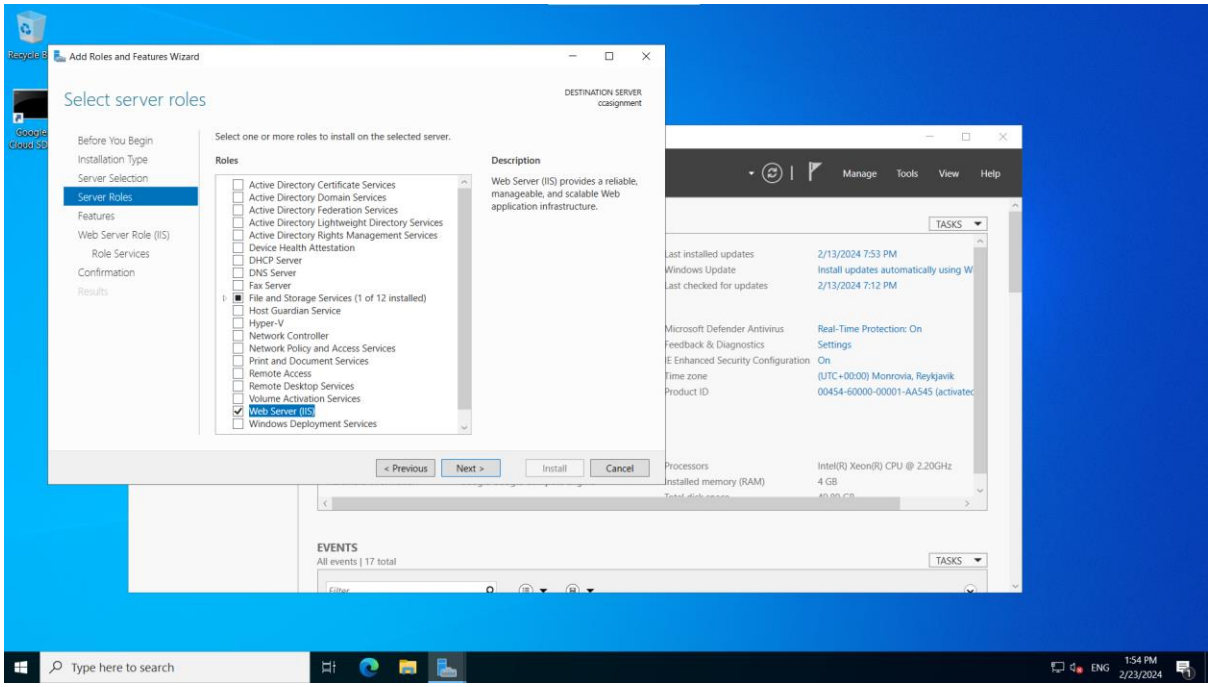
Follow the installation procedure as followed in the below snapshot

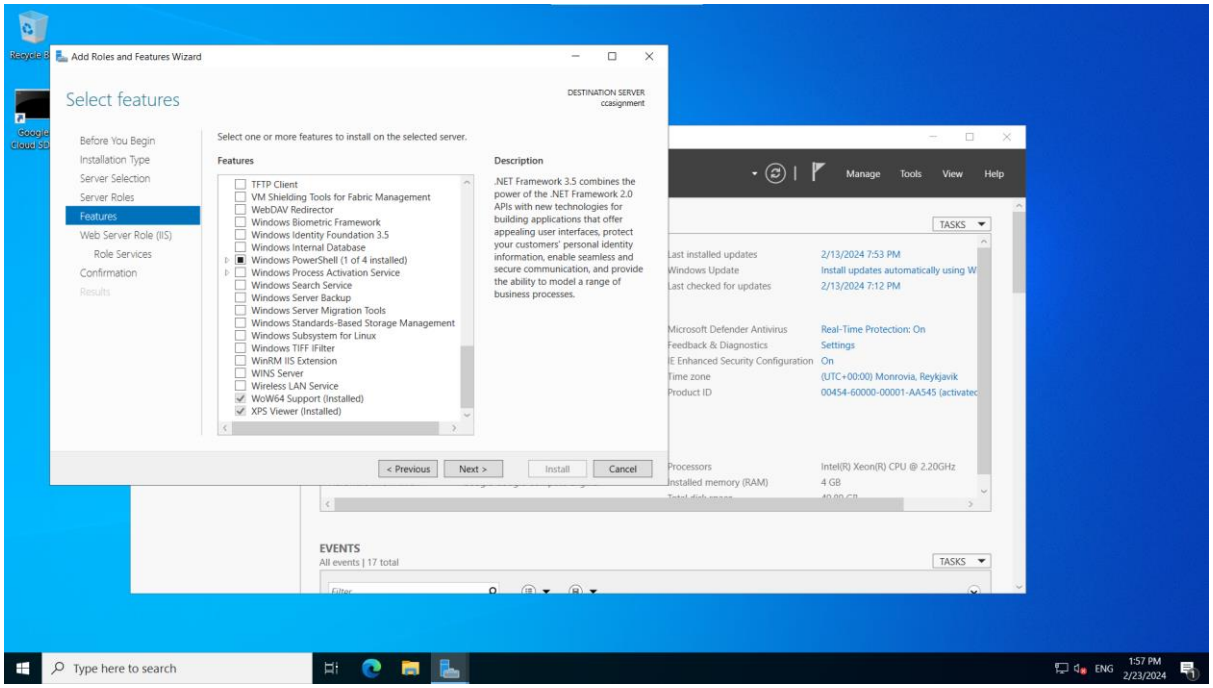

Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
ccasignment
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel
Manage
Tools
View
Help
TASKS
Last installed updates
2/13/2024 7:53 PM
Windows Update
Install updates automatically using W
Last checked for updates
2/13/2024 7:12 PM
Microsoft Defender Antivirus
Real-Time Protection: On
Feedback & Diagnostics
Settings
E Enhanced Security Configuration
On
Time zone
(UTC+00:00) Monrovia, Reykjavik
Product ID
00454-60000-00001-AA545 (activatec
Processors
Intel(R) Xeon(R) CPU @ 2.20GHz
Installed memory (RAM)
4 GB
EVENTS
All events | 17 total
TASKS
Type here to search
ENG
1:53 PM
2/23/2024

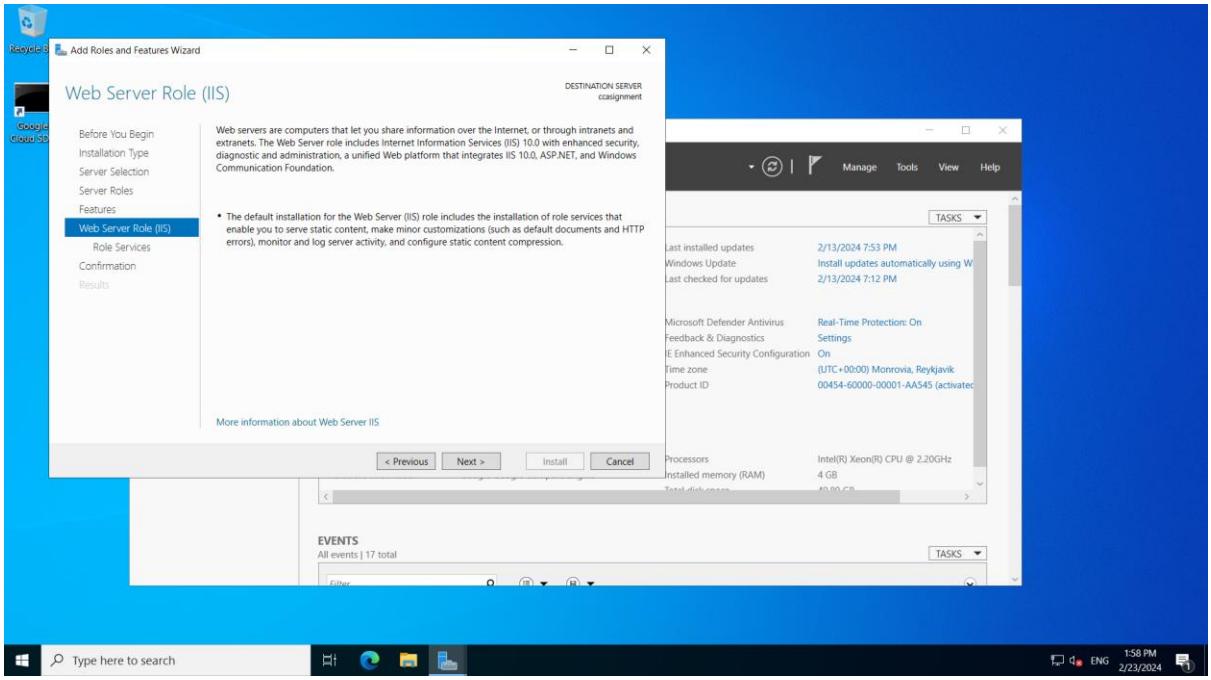

Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
ccasignment
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Role-based or feature-based installation
Configure a single server by adding roles, role services, and features.
Remote Desktop Services installation
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
< Previous
Next >
Install
Cancel
Manage
Tools
View
Help
TASKS
Last installed updates
2/13/2024 7:53 PM
Windows Update
Install updates automatically using W
Last checked for updates
2/13/2024 7:12 PM
Microsoft Defender Antivirus
Real-Time Protection: On
Feedback & Diagnostics
Settings
E Enhanced Security Configuration
On
Time zone
(UTC+00:00) Monrovia, Reykjavik
Product ID
00454-60000-00001-AA545 (activatec
Processors
Intel(R) Xeon(R) CPU @ 2.20GHz
Installed memory (RAM)
4 GB
EVENTS
All events | 17 total
TASKS
Type here to search
ENG
1:53 PM
2/23/2024

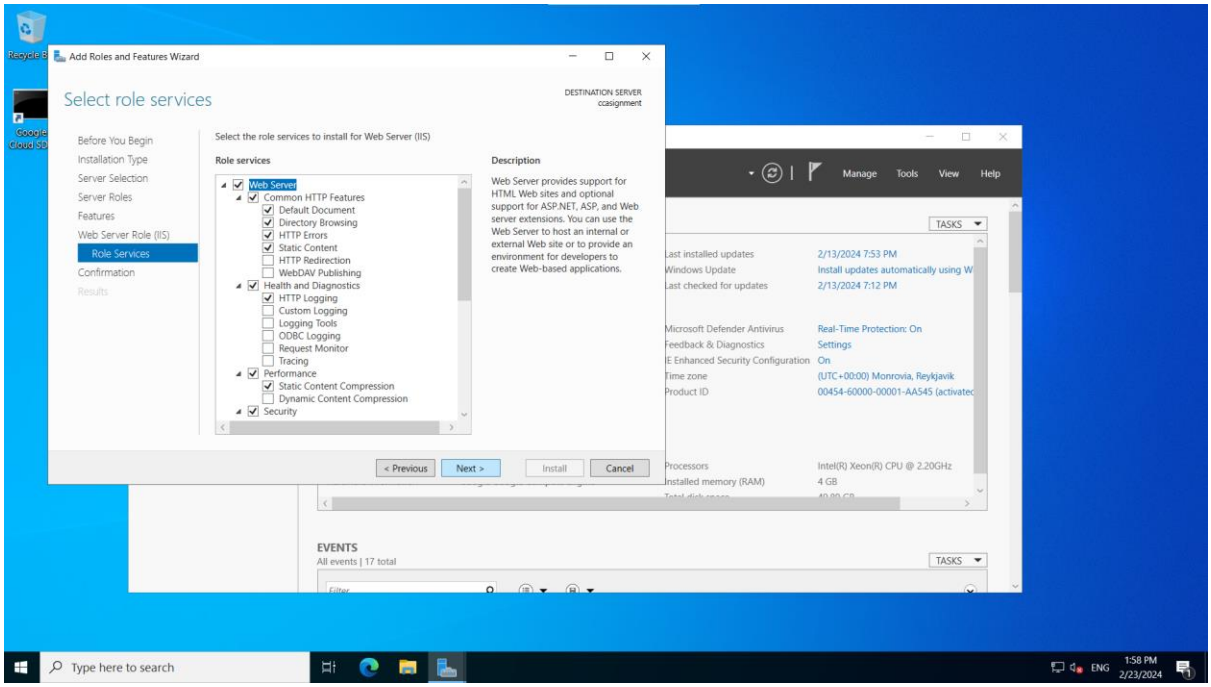


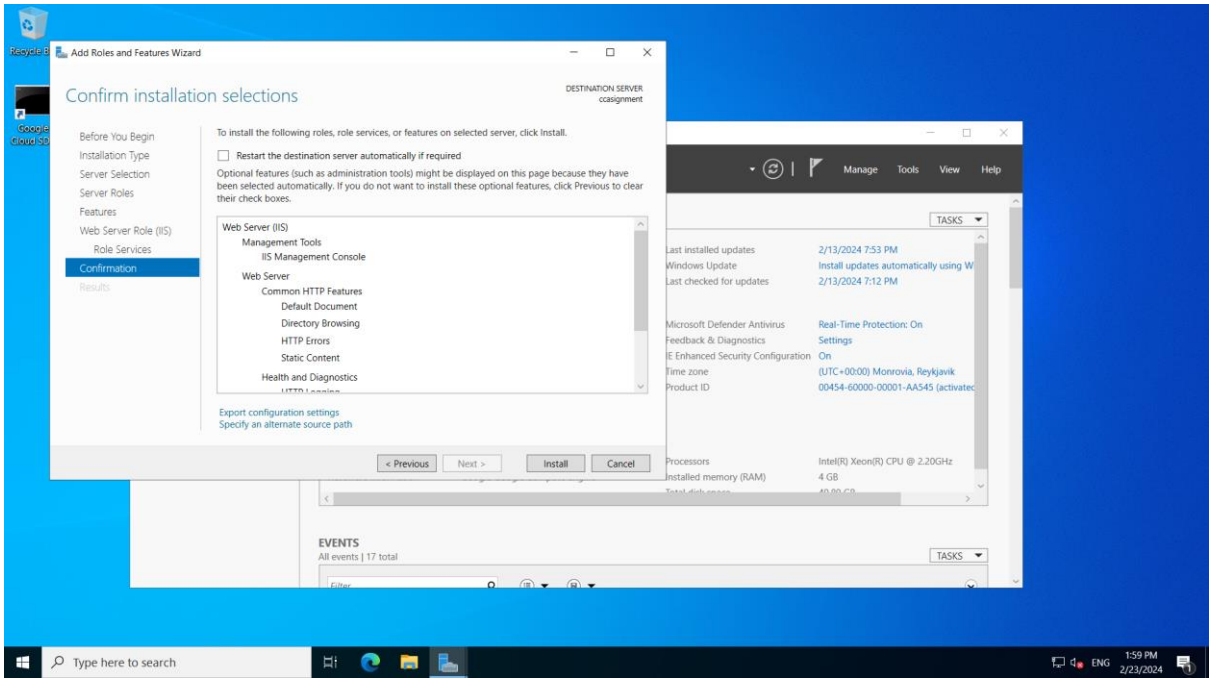
Tick mark the Web Server(IIS) which was uncheck.



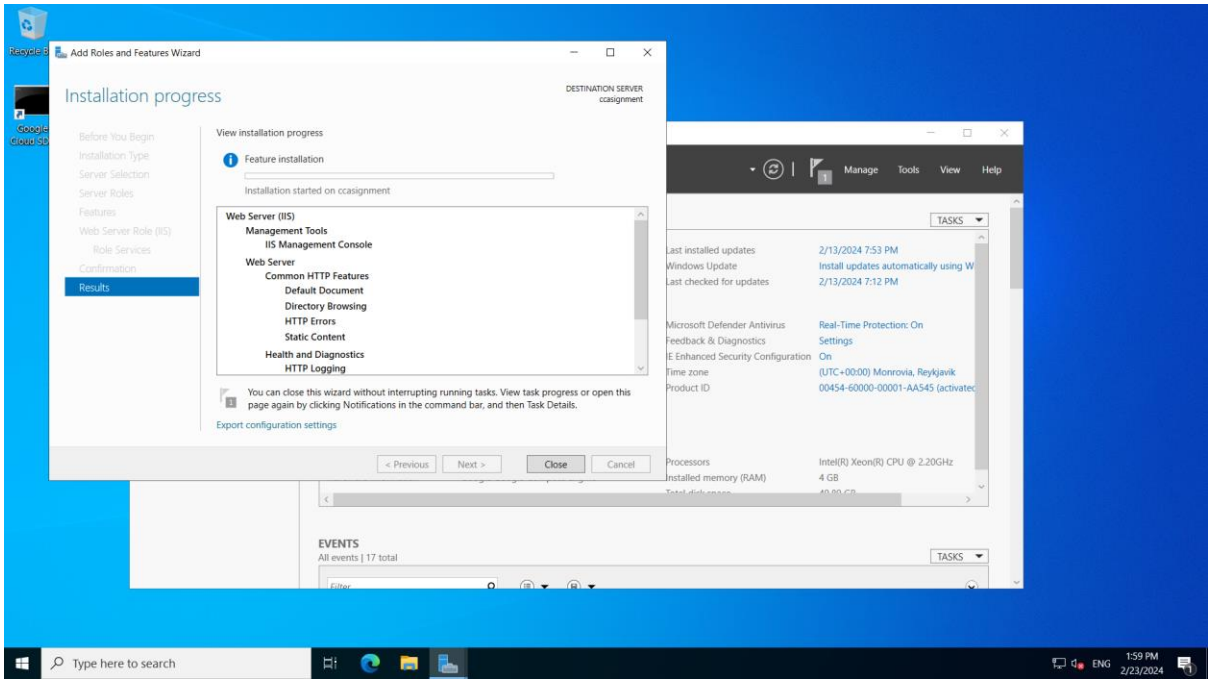

Add Roles and Features Wizard
Select features
DESTINATION SERVER
ccasignment
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select one or more features to install on the selected server.
Features
TFTP Client
VM Shielding Tools for Fabric Management
WebDAV Redirector
Windows Biometric Framework
Windows Identity Foundation 3.5
Windows Internal Database
Windows PowerShell (1 of 4 installed)
Windows Process Activation Service
Windows Search Service
Windows Server Backup
Windows Server Migration Tools
Windows Standards-Based Storage Management
Windows Subsystem for Linux
Windows TIFF IFilter
WinRM IIS Extension
WINS Server
Wireless LAN Service
WoW64 Support (Installed)
XPS Viewer (Installed)
Description
.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.
< Previous
Next >
Install
Cancel
Manage
Tools
View
Help
TASKS
Last installed updates
2/13/2024 7:53 PM
Windows Update
Install updates automatically using W
Last checked for updates
2/13/2024 7:12 PM
Microsoft Defender Antivirus
Real-Time Protection: On
Feedback & Diagnostics
Settings
IE Enhanced Security Configuration
On
Time zone
(UTC+00:00) Monrovia, Reykjavik
Product ID
00454-60000-00001-AA545 (activated
Processors
Intel(R) Xeon(R) CPU @ 2.20GHz
Installed memory (RAM)
4 GB
EVENTS
All events | 17 total
TASKS
Type here to search
ENG
1:57 PM
2/23/2024

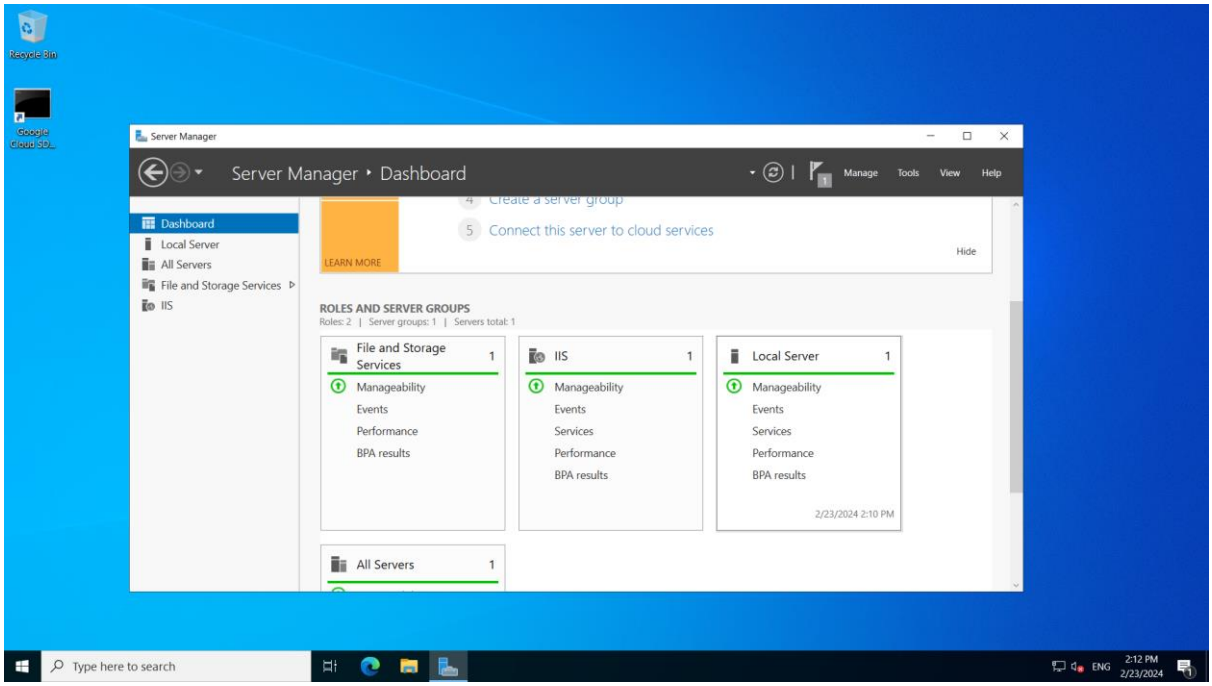

Add Roles and Features Wizard
Web Server Role (IIS)
DESTINATION SERVER
ccasignment
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.
• The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.
More information about Web Server IIS
< Previous
Next >
Install
Cancel
Manage
Tools
View
Help
TASKS
Last installed updates
2/13/2024 7:53 PM
Windows Update
Install updates automatically using W
Last checked for updates
2/13/2024 7:12 PM
Microsoft Defender Antivirus
Real-Time Protection: On
Feedback & Diagnostics
Settings
IE Enhanced Security Configuration
On
Time zone
(UTC+00:00) Monrovia, Reykjavik
Product ID
00454-60000-00001-AA545 (activated
Processors
Intel(R) Xeon(R) CPU @ 2.20GHz
Installed memory (RAM)
4 GB
EVENTS
All events | 17 total
TASKS
Type here to search
ENG
1:58 PM
2/23/2024





You have successfully installed IIS server



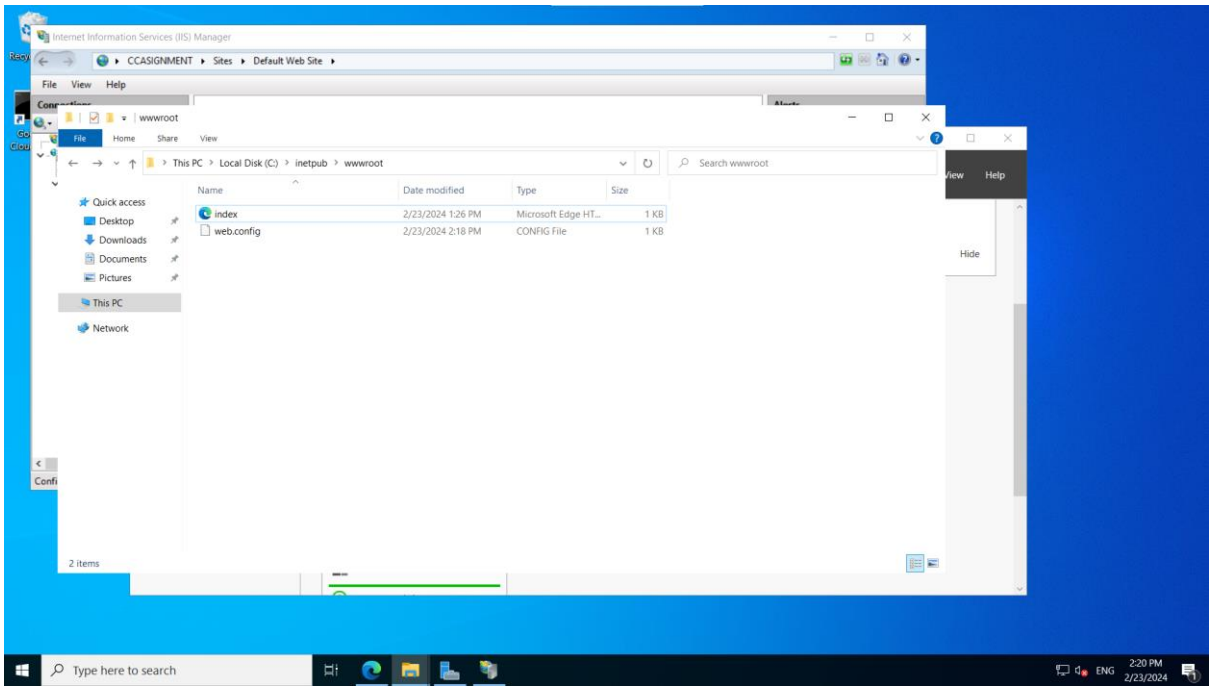


Create a Hello World in HTML format and save it has index file

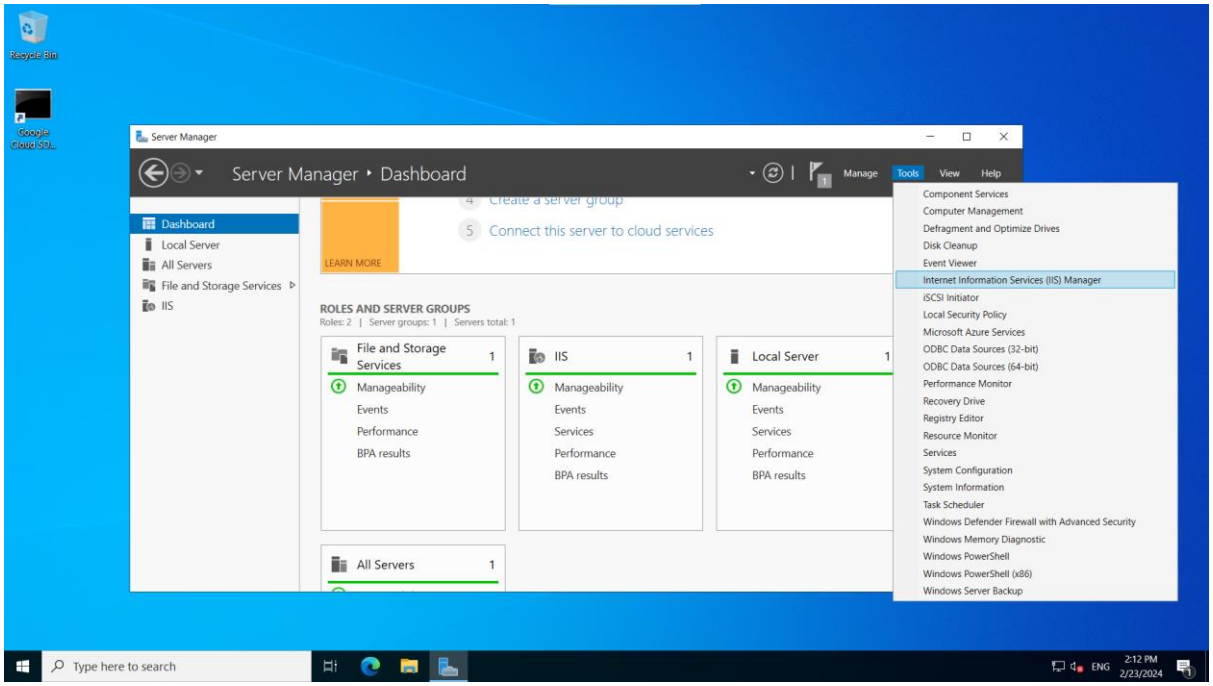
```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
        <h1>Hello World!</h1>
</body>
</html>
```

Windows (CRLF) | Ln 7, Col 8 | 100%

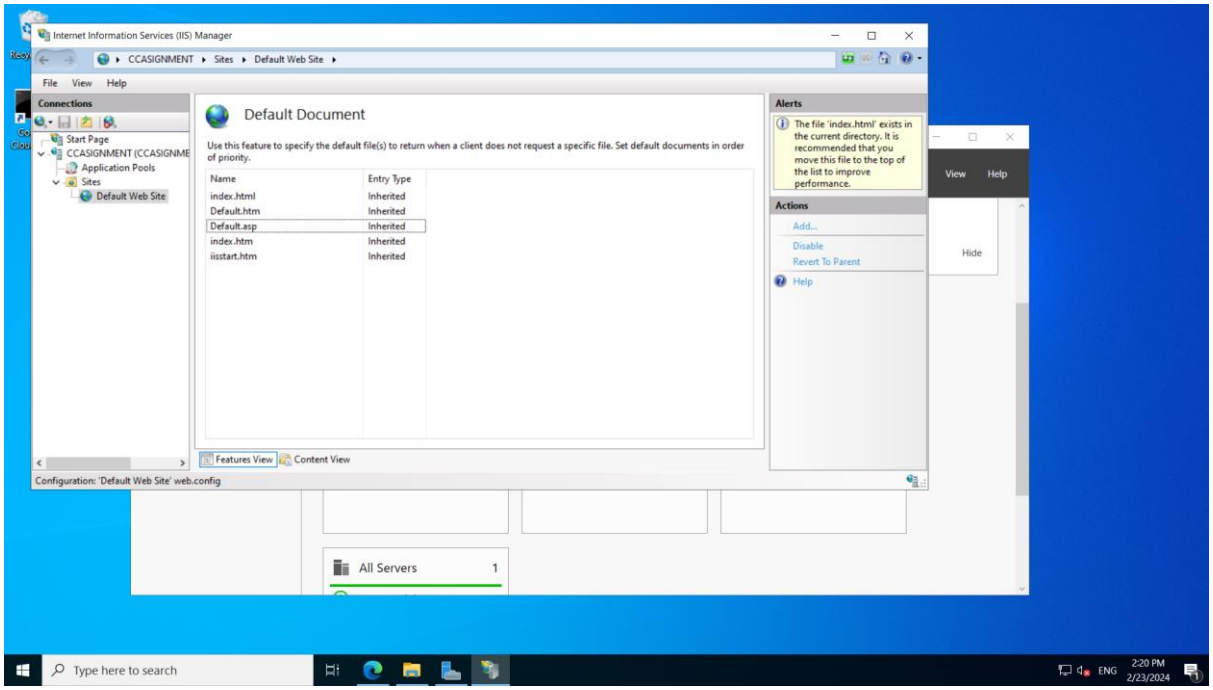
Move the index file to C:/inetpub/wwwroot/ folder



Now select the Internet Information Service Manager from the tools



Click on Sites and select Default web site where you get option of Default Document. Click on the option and where you get a list of file. In that move the index.html to top.

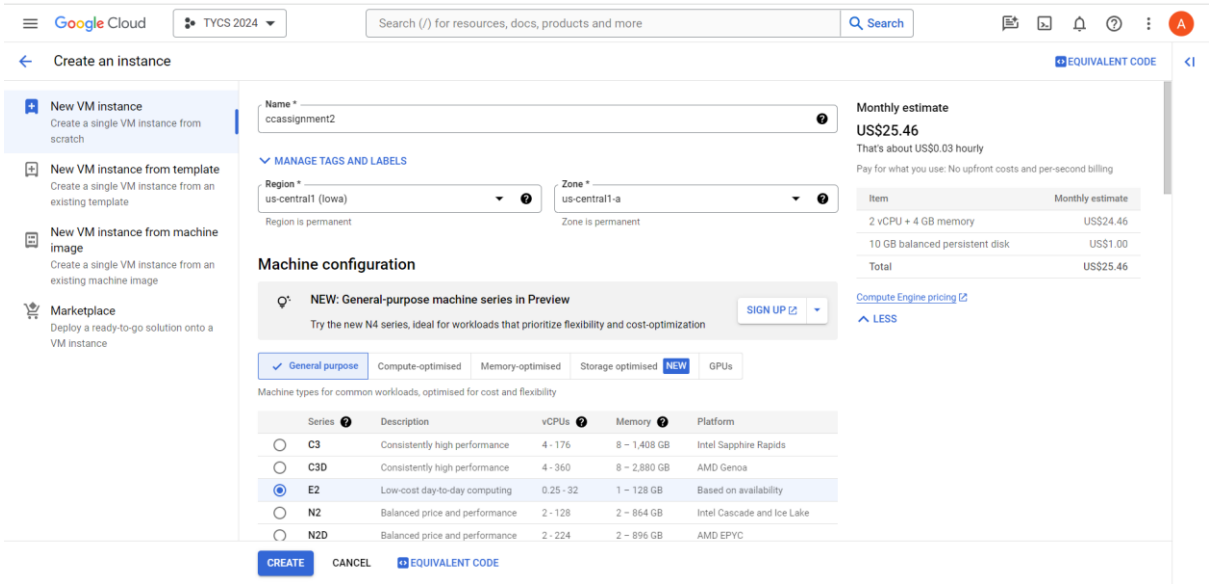


Then outside the window instance call the window instance using it's external ip. Then you will receive Hello World webpage.

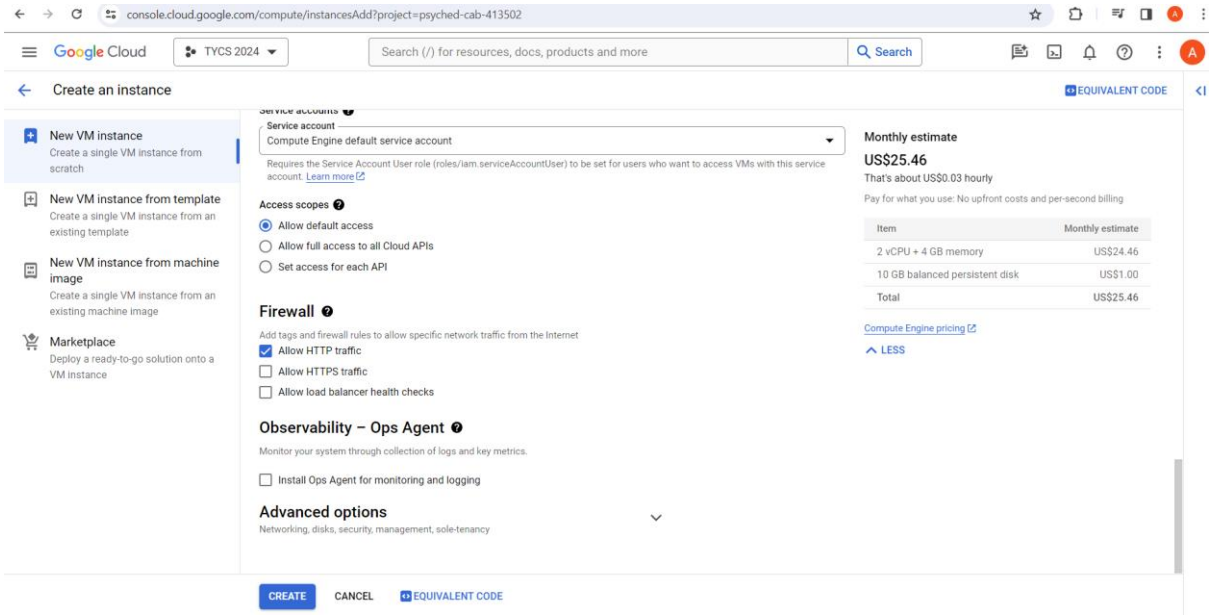
Hello World

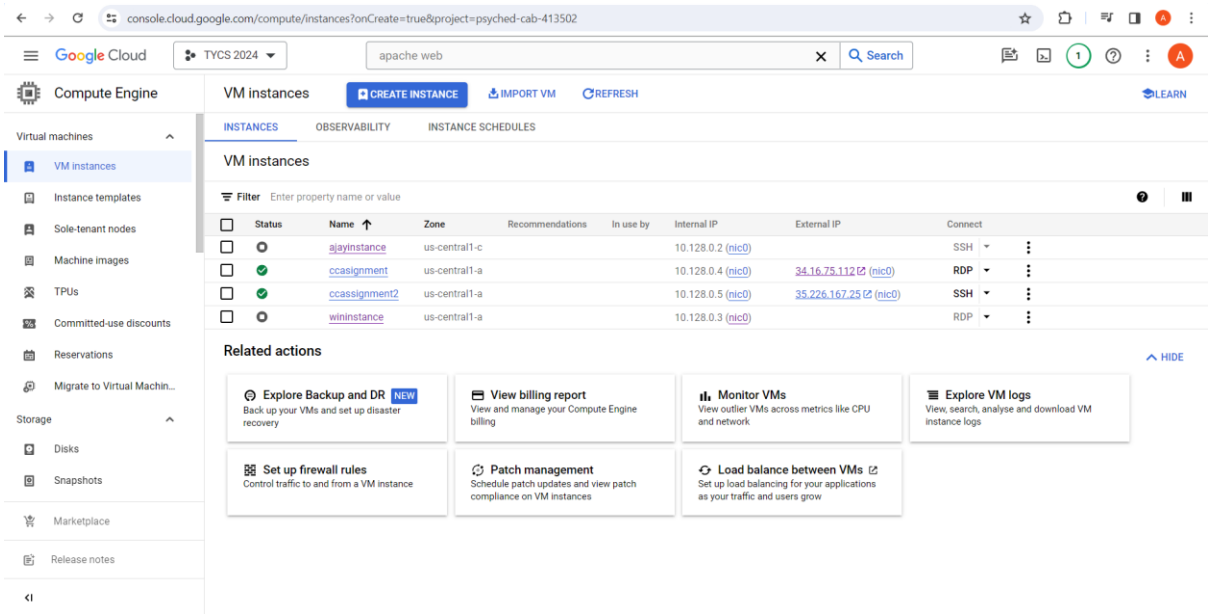
2)

Create a Debian Instance

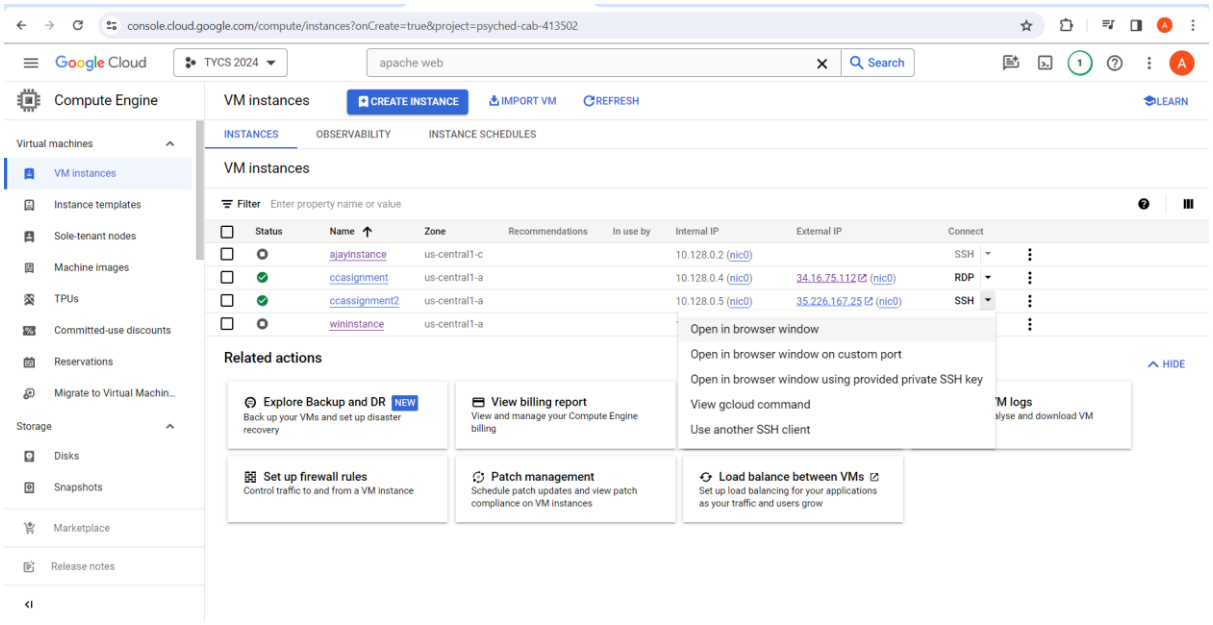


Select the Allow HTTP traffic and create the instance

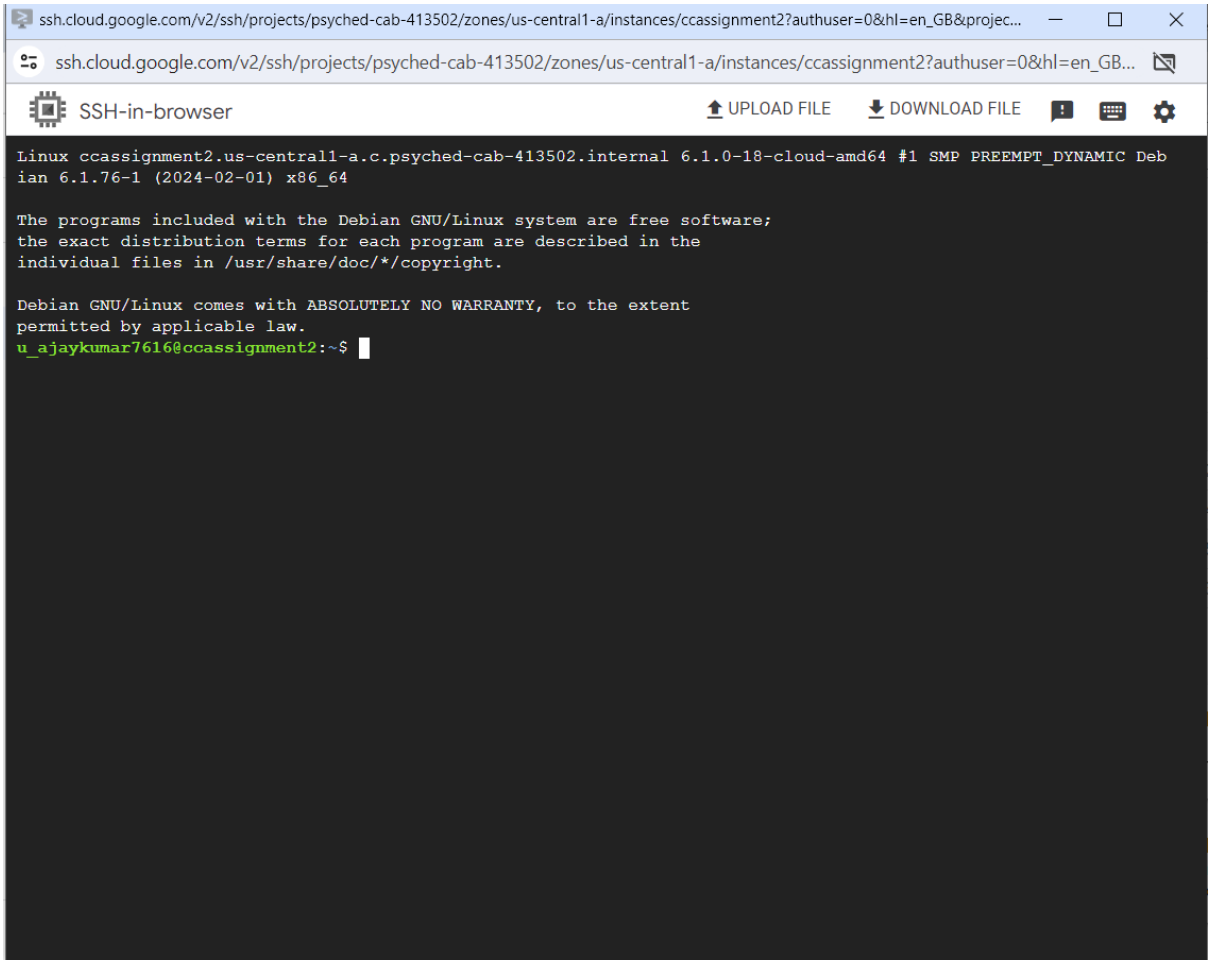




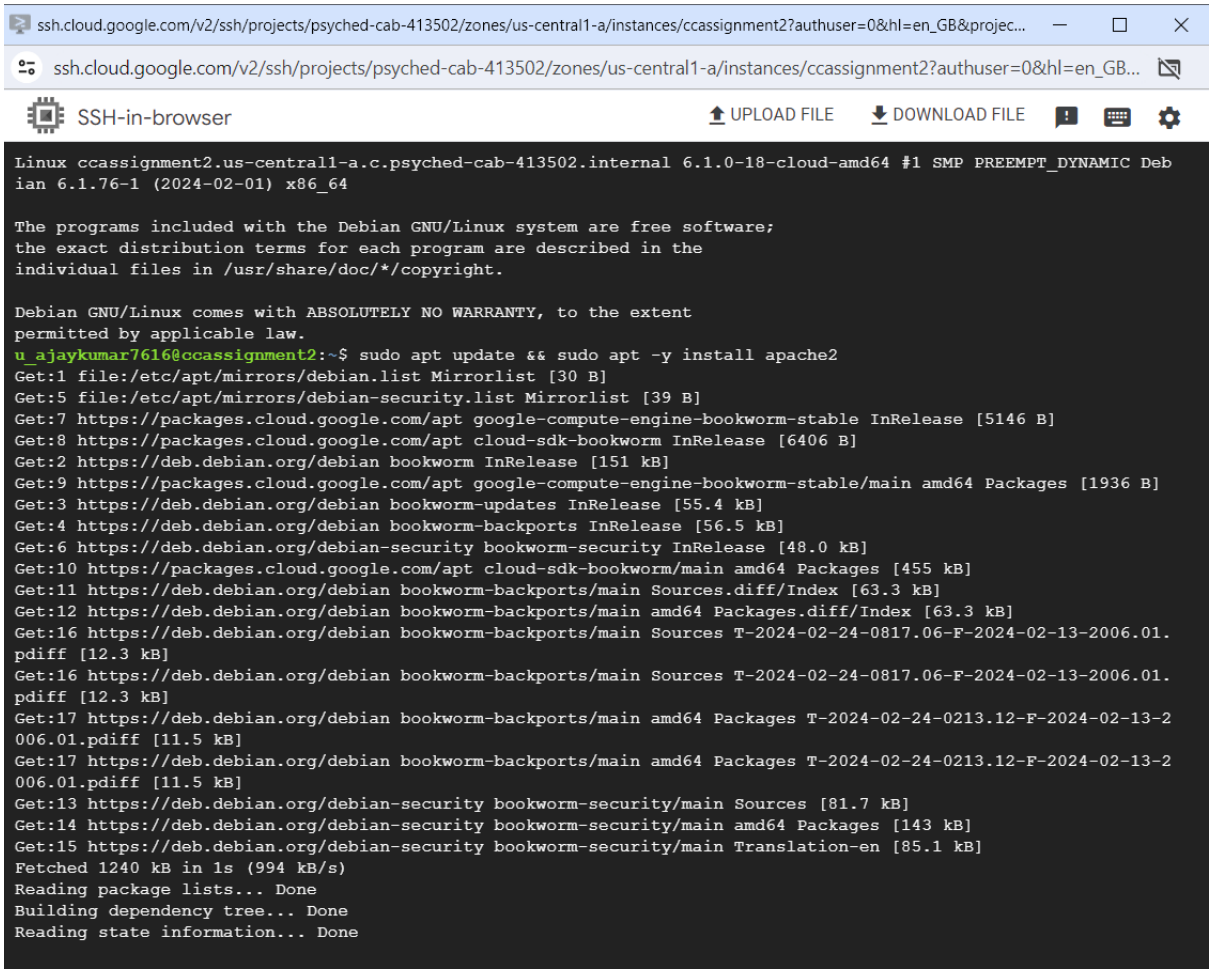
Click on Open in browser window from the ccassignment2 instance



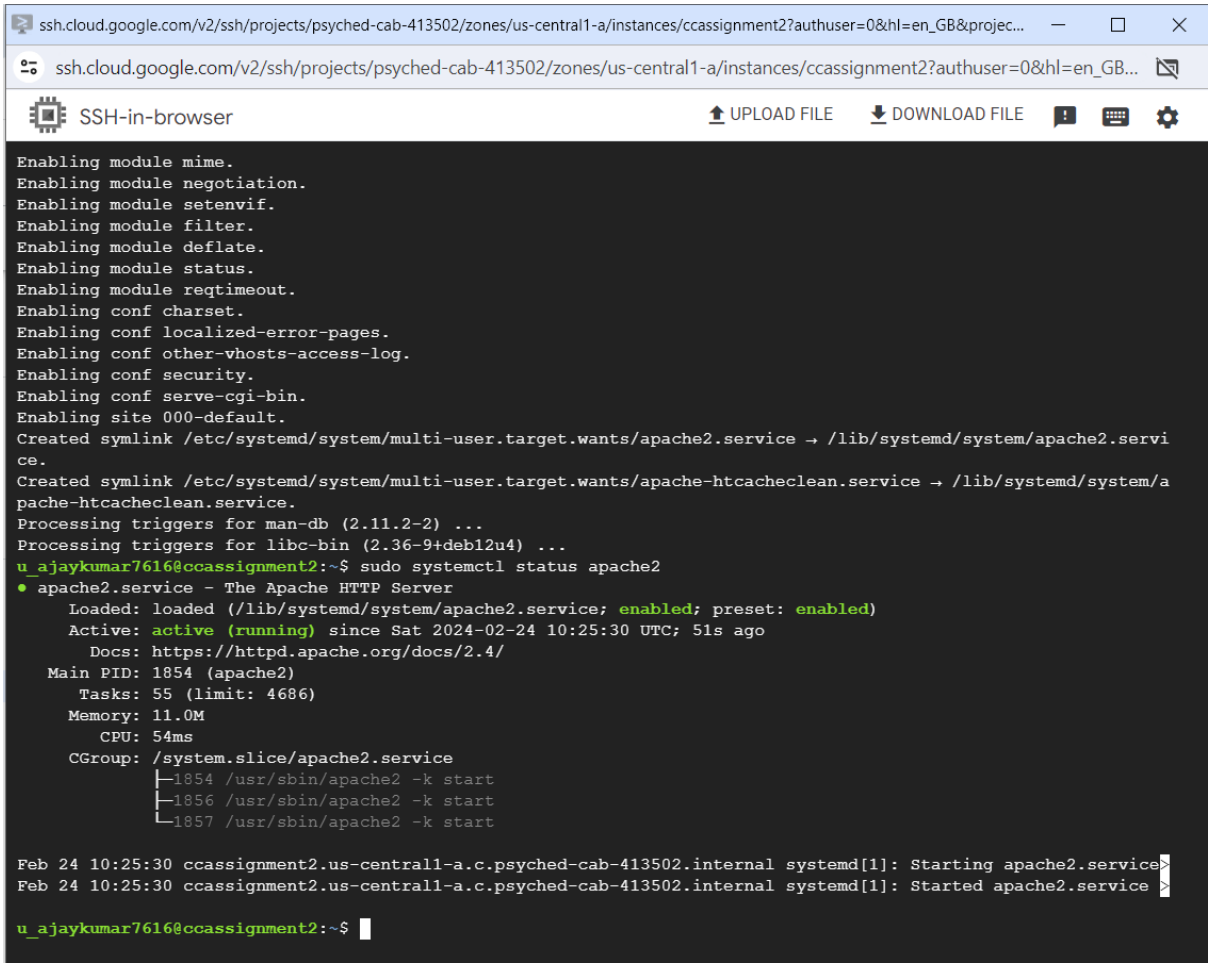
You will get a SSH terminal mode



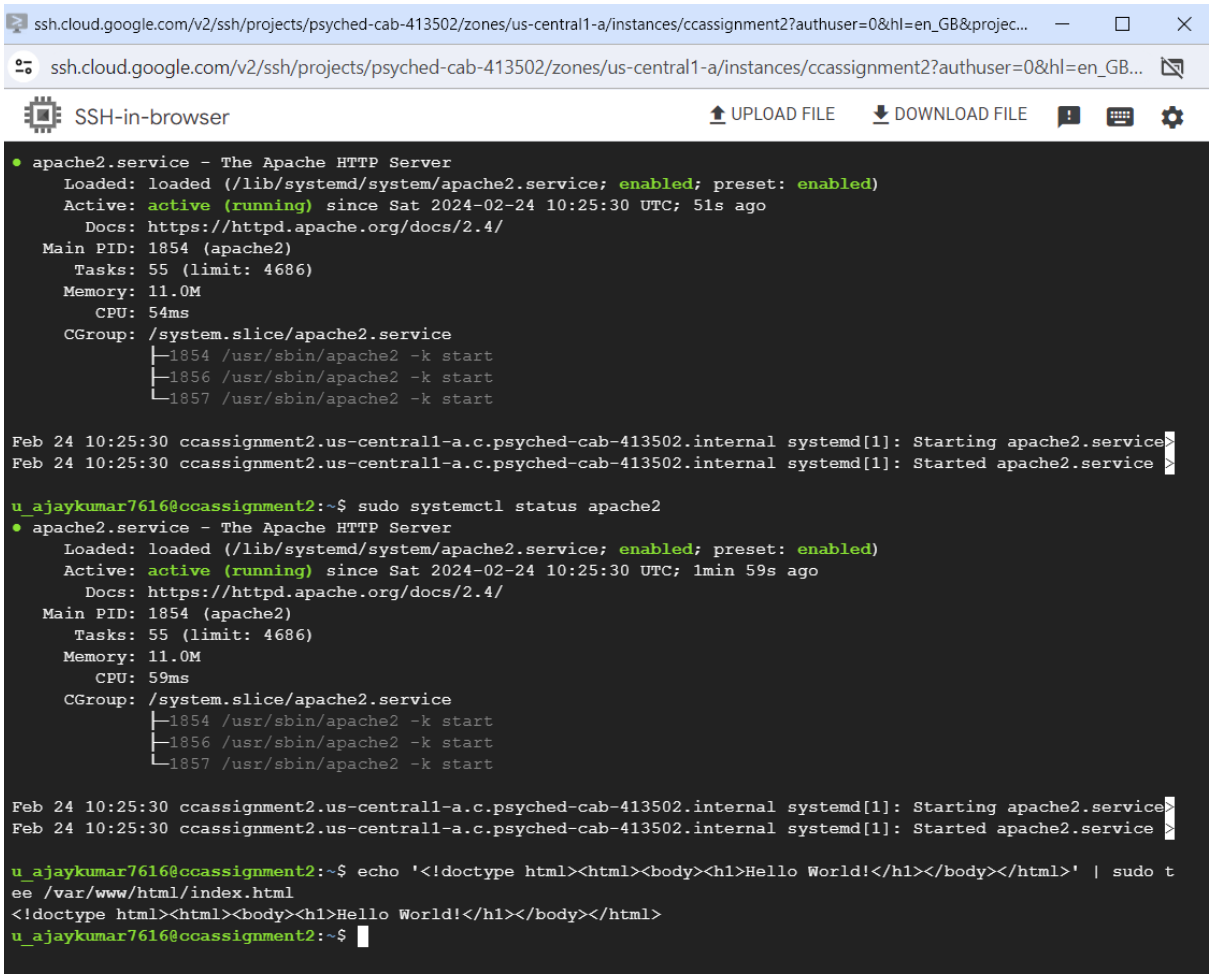
Type the command sudo apt update && sudo apt –y install apache2. To install apache



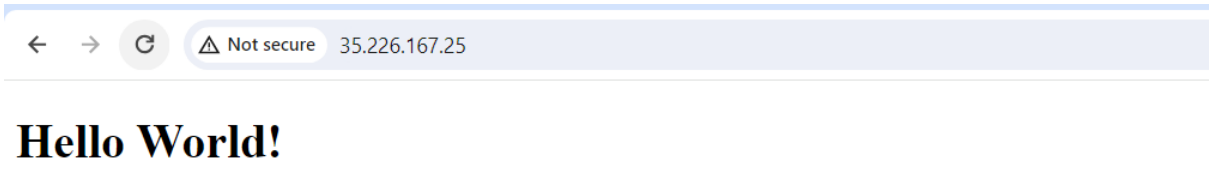
Then start the apache using command, sudo systemctl status apache2



After starting the apache, replace the index.html with Hello World. Using this command,
echo '<!doctype html><html><body><h1>Hello World!</h1></body></html>' | sudo tee /var/www/html/index.html



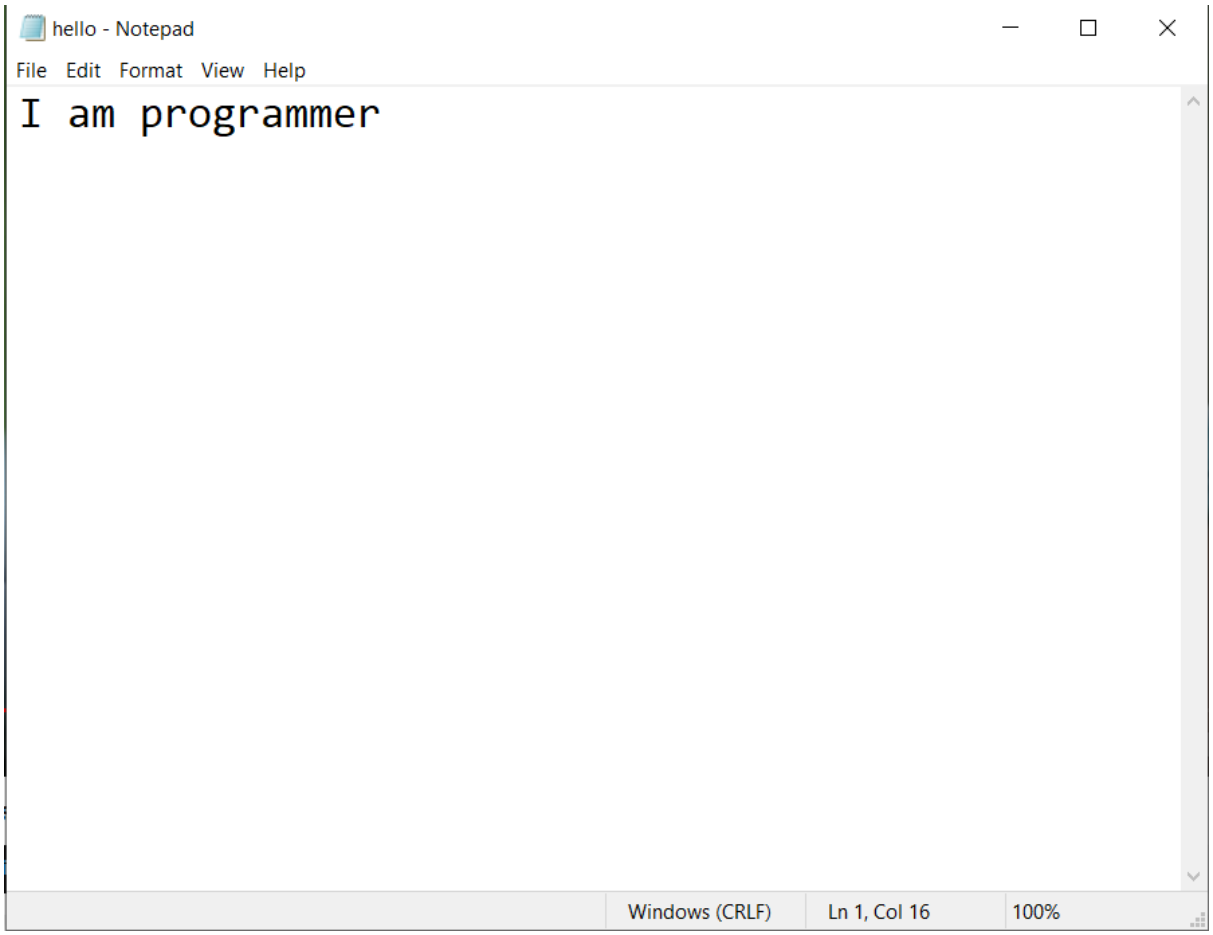
Now call the external ip outside the debian instance.



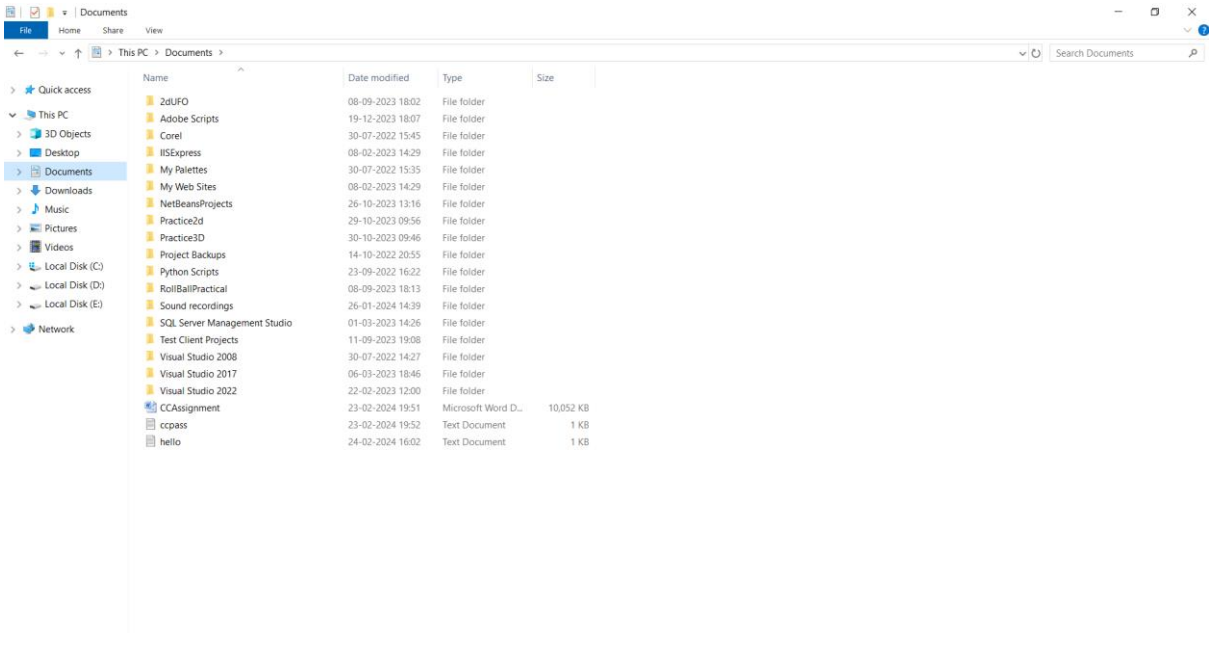
Hello World!

3)

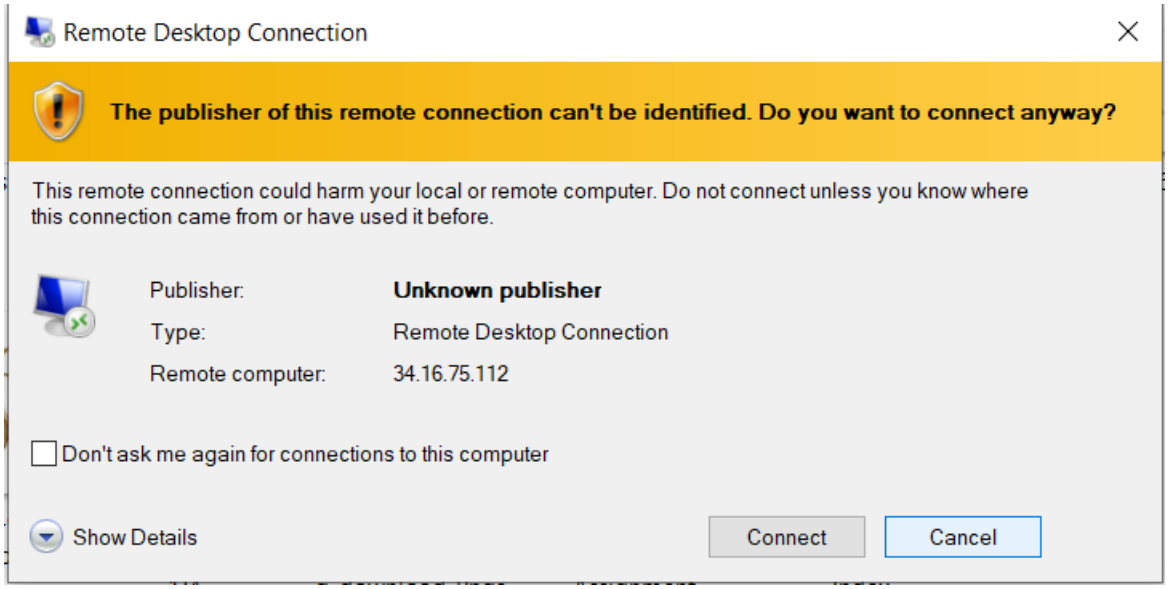
Create a hello text file.

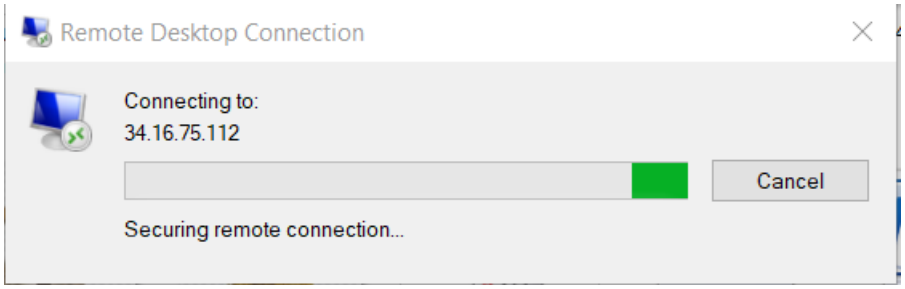


Save it in your Personal pc

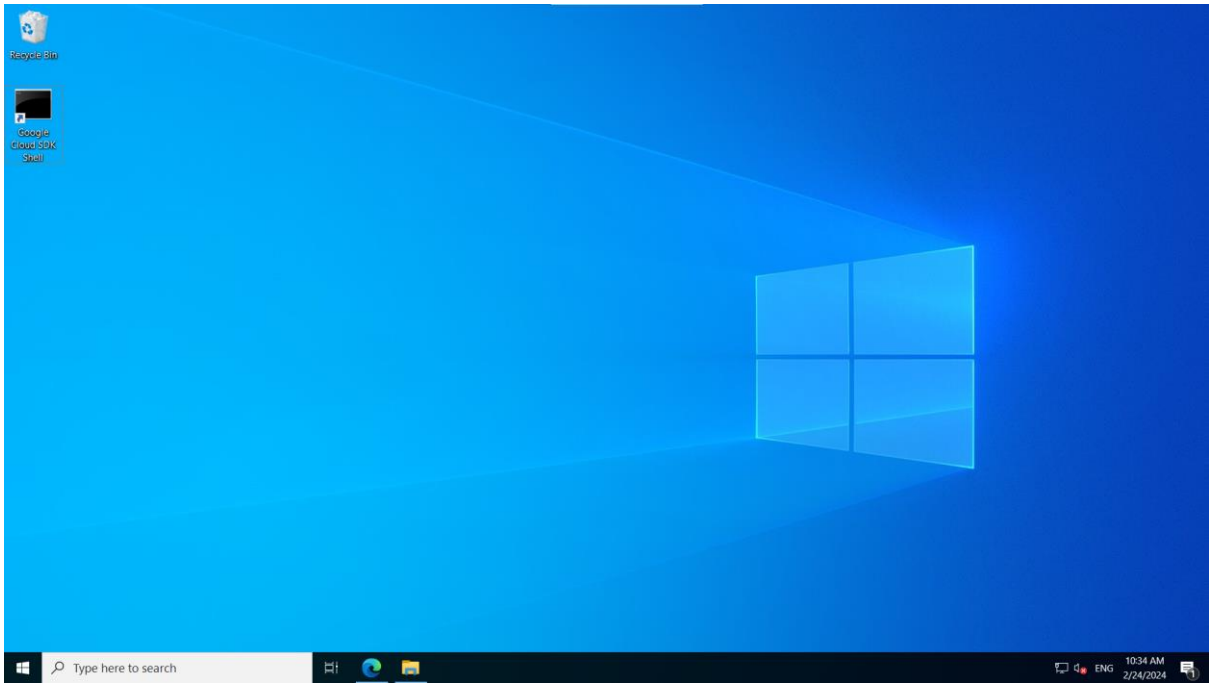


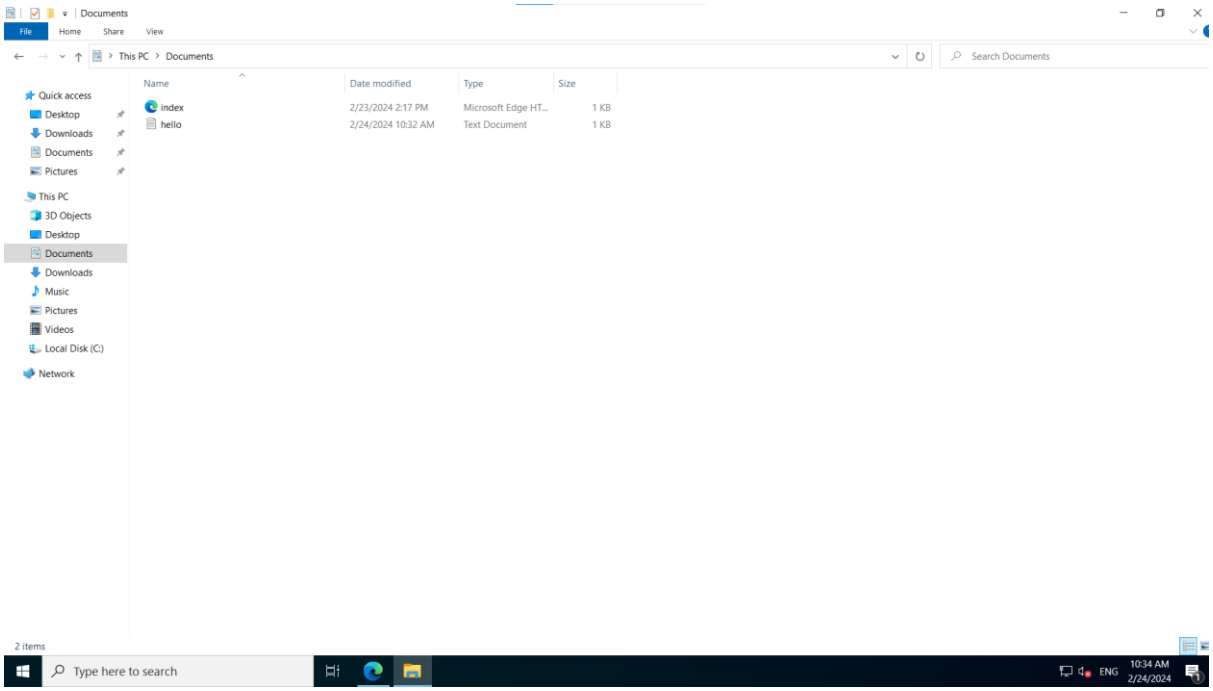
Now using RDP file launch the window instance





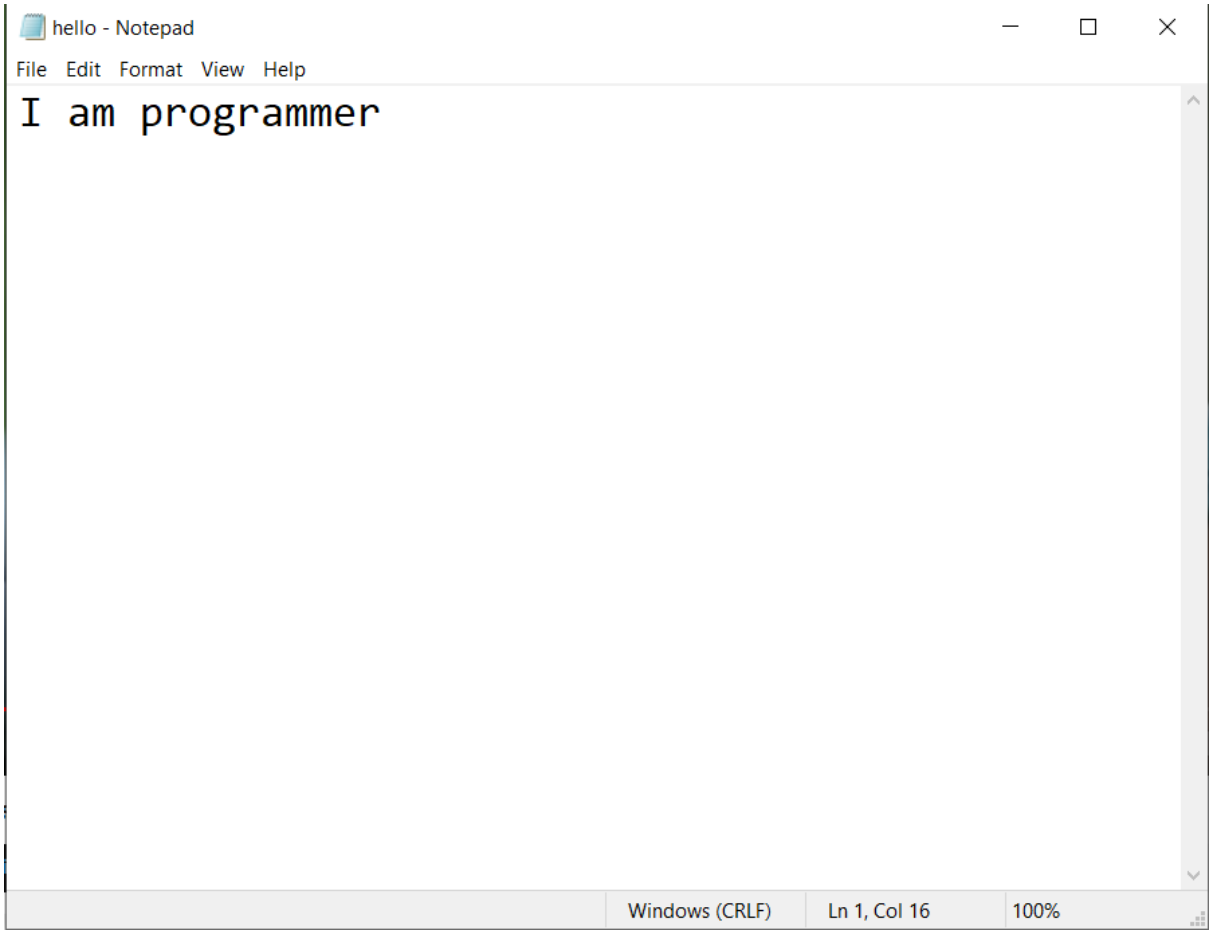
Copy the Hello text file from your Personal PC and paste the Hello.txt in the Documents folder.



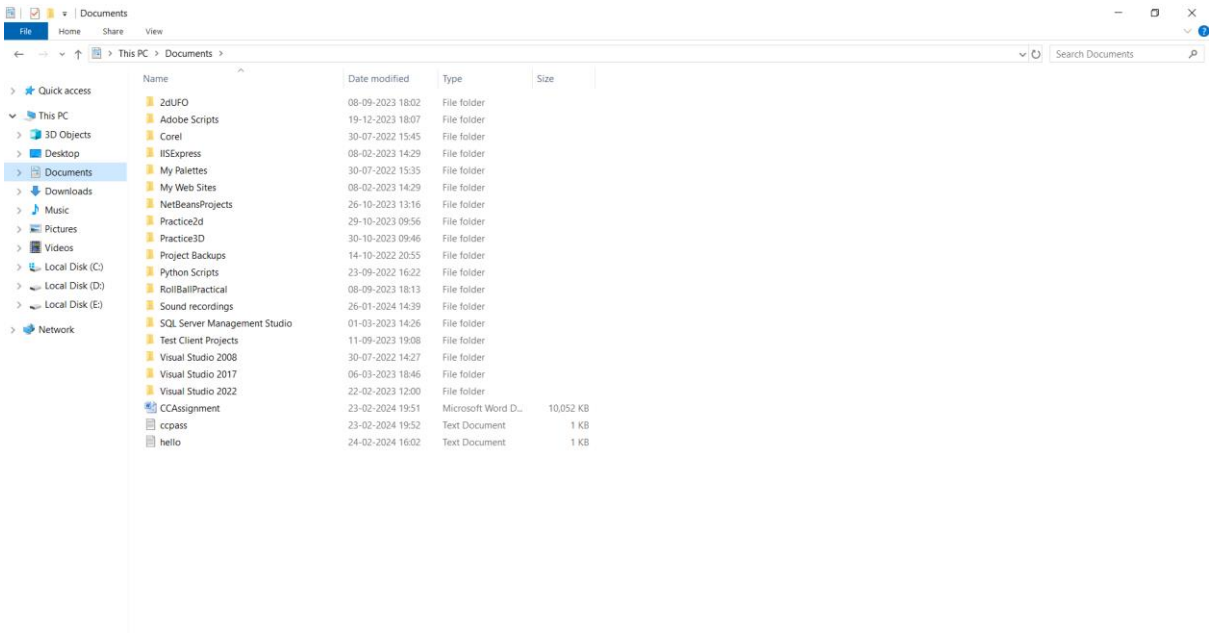


4)

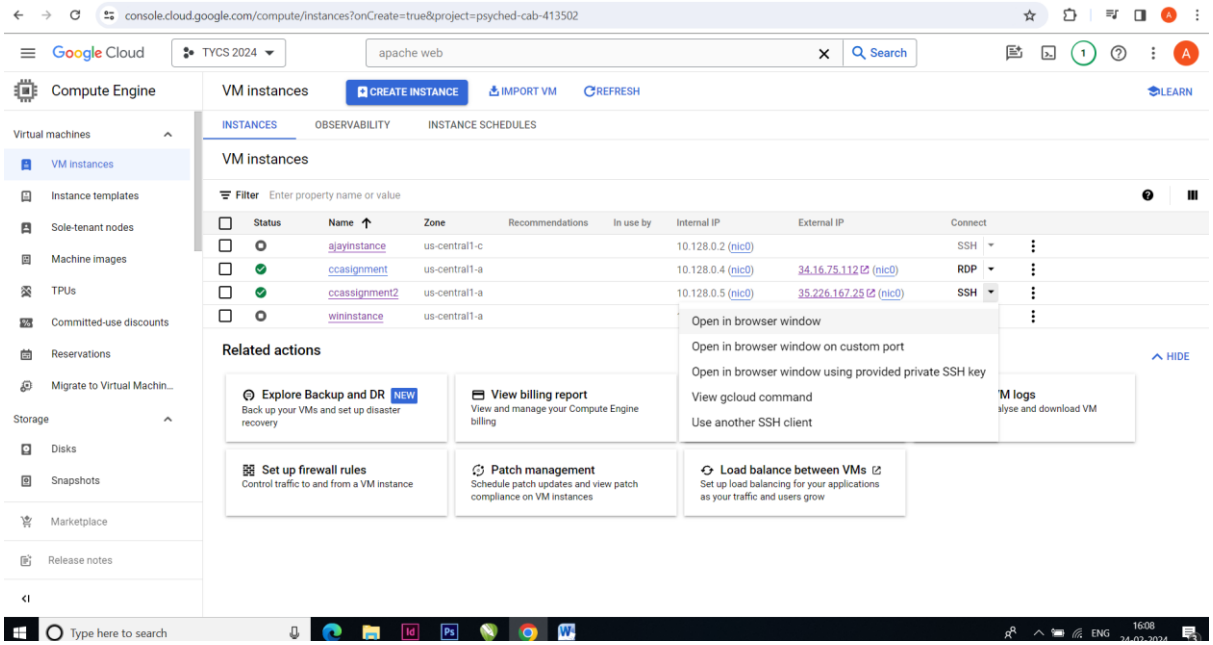
Create a hello text file.

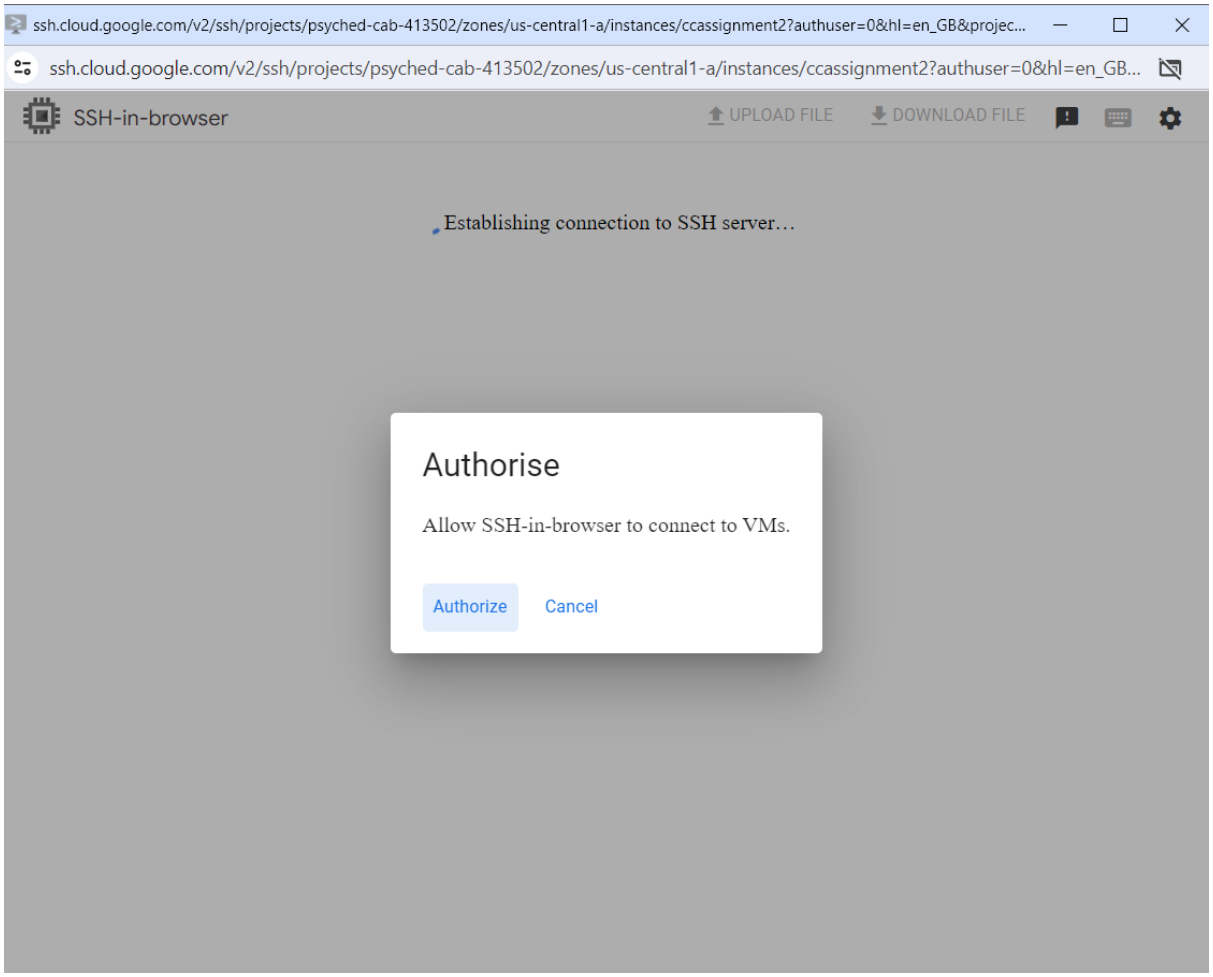


Save it in your Personal pc

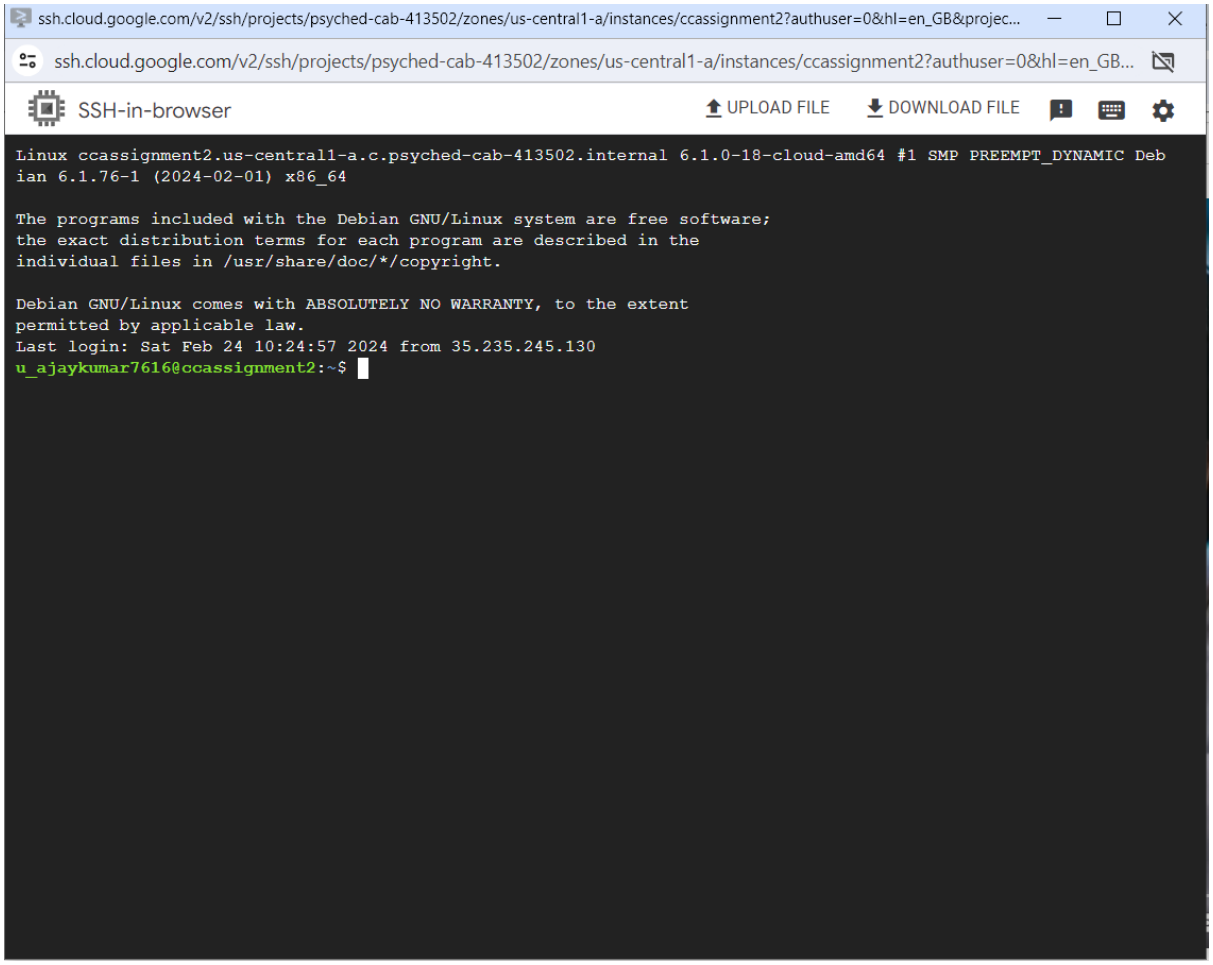


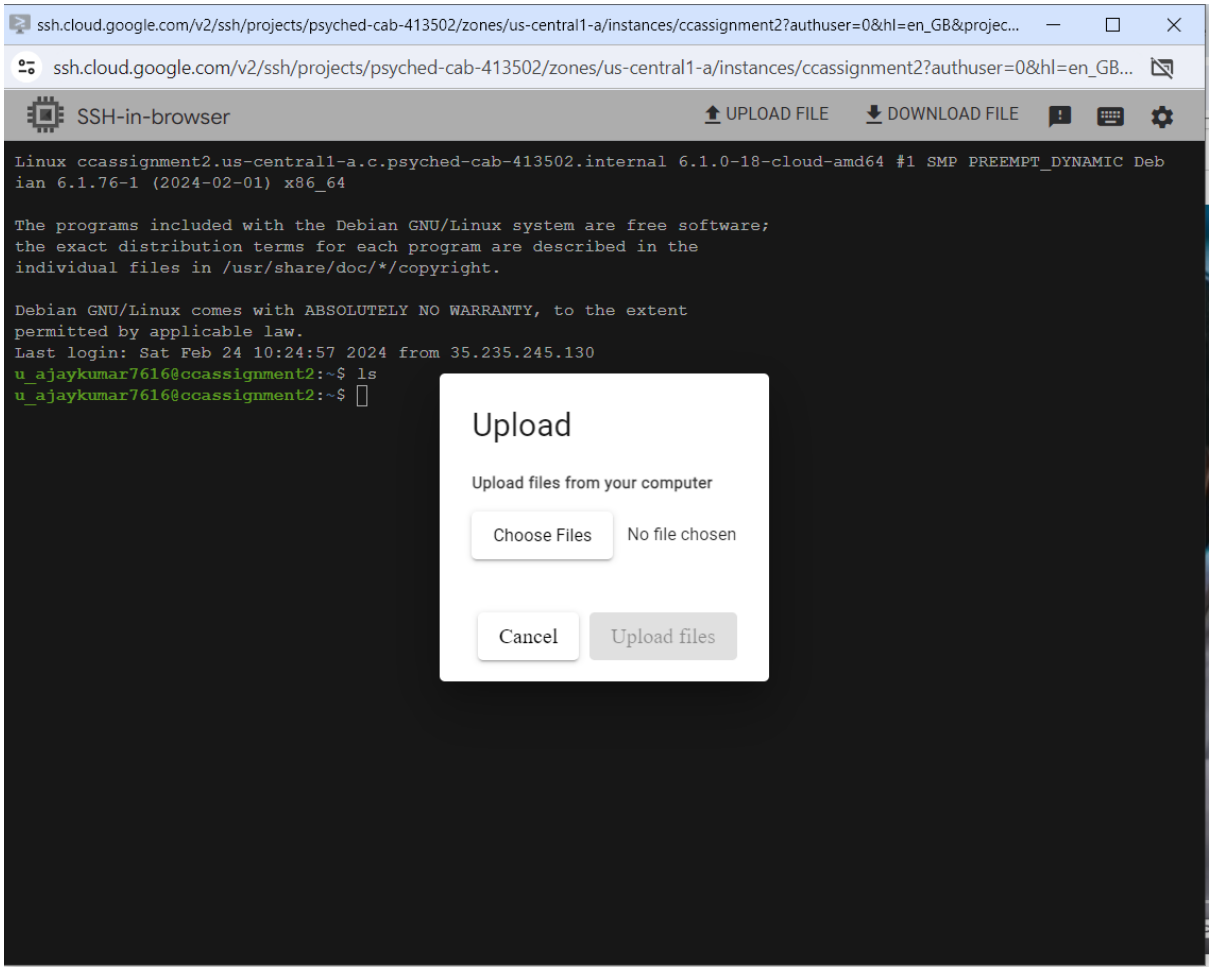
Launch the Linux instance.

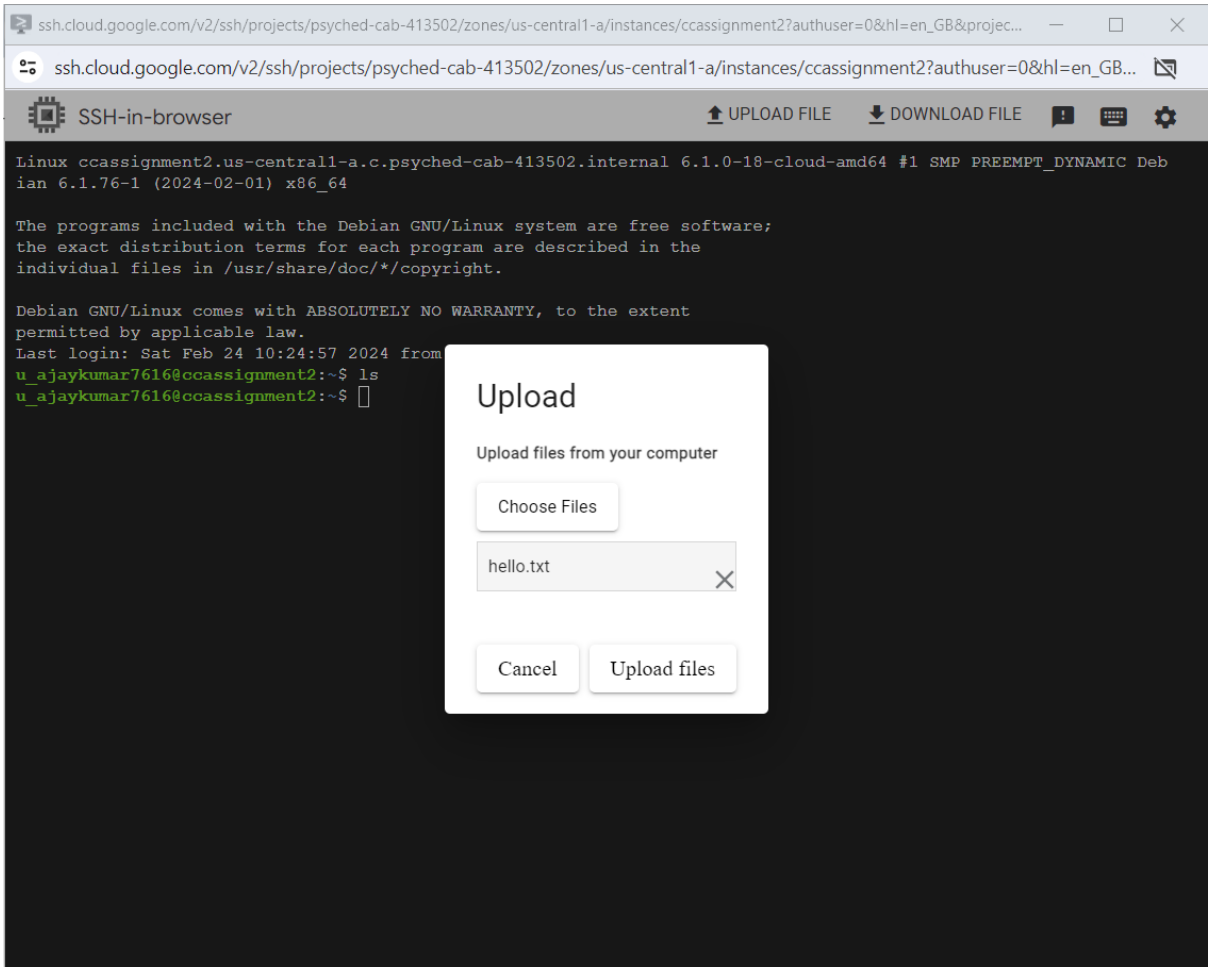




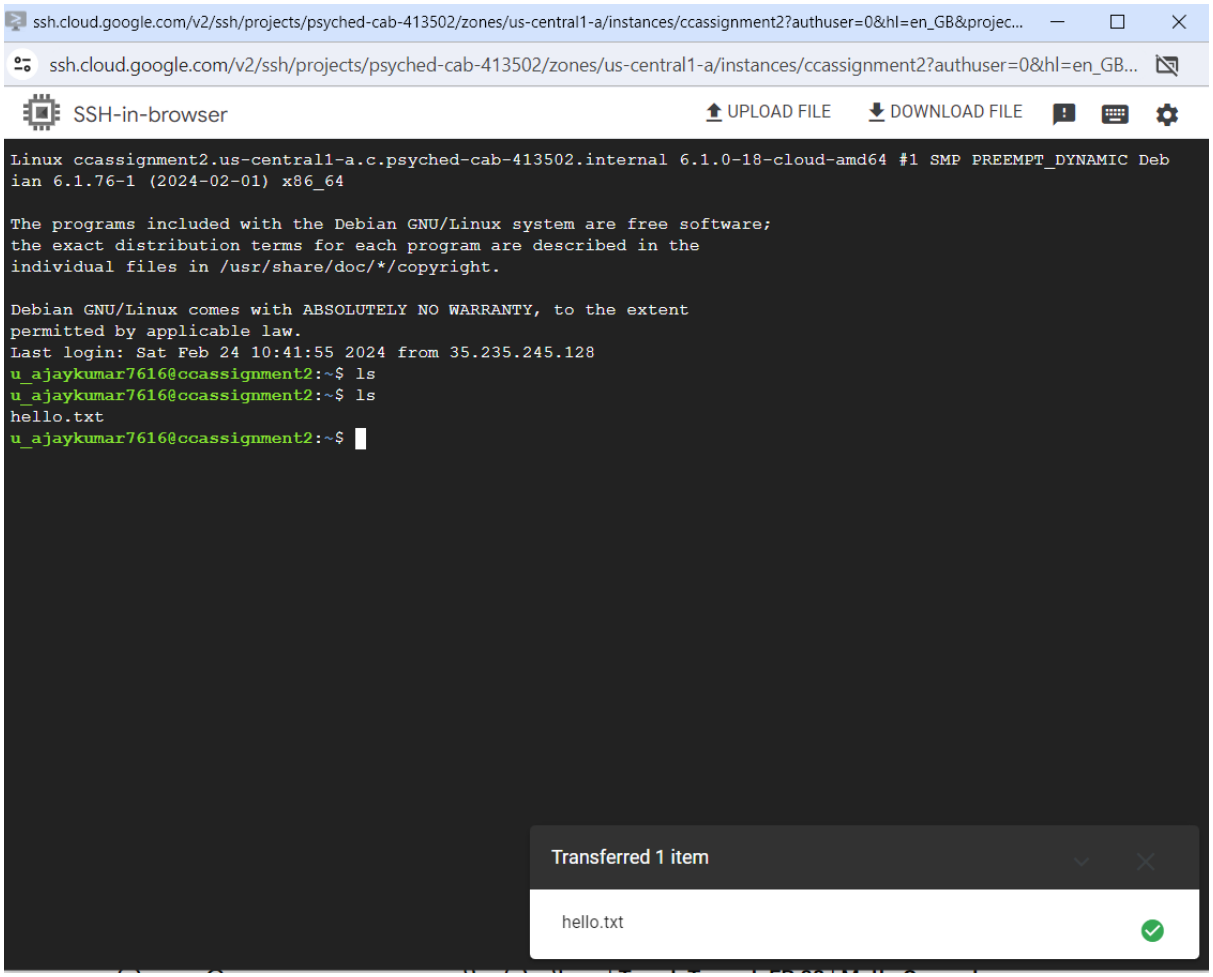
Click on the upload file option and select the hello.txt file from your personal pc.


ssh.cloud.google.com/v2/ssh/projects/psyched-cab-413502/zones/us-central1-a/instances/ccassignment2?authuser=0&hl=en_GB&projec...
ssh.cloud.google.com/v2/ssh/projects/psyched-cab-413502/zones/us-central1-a/instances/ccassignment2?authuser=0&hl=en_GB...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
Linux ccassignment2.us-central1-a.c.psyched-cab-413502.internal 6.1.0-18-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Deb
ian 6.1.76-1 (2024-02-01) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Feb 24 10:24:57 2024 from 35.235.245.130
u_ajaykumar7616@ccassignment2:~$


ssh.cloud.google.com/v2/ssh/projects/psyched-cab-413502/zones/us-central1-a/instances/ccassignment2?authuser=0&hl=en_GB&projec...
ssh.cloud.google.com/v2/ssh/projects/psyched-cab-413502/zones/us-central1-a/instances/ccassignment2?authuser=0&hl=en_GB...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
Linux ccassignment2.us-central1-a.c.psyched-cab-413502.internal 6.1.0-18-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.76-1 (2024-02-01) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Feb 24 10:24:57 2024 from 35.235.245.130
u_ajaykumar7616@ccassignment2:~$ ls
u_ajaykumar7616@ccassignment2:~$
Upload
Upload files from your computer
Choose Files
No file chosen
Cancel
Upload files

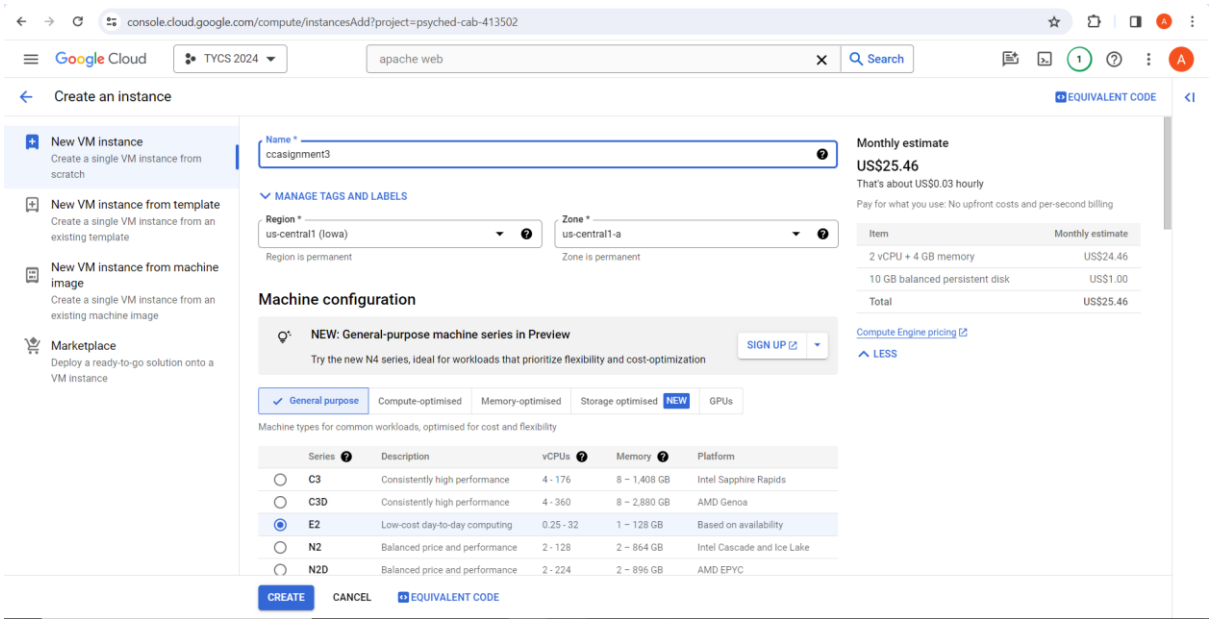


Give the command ls, you will see your file

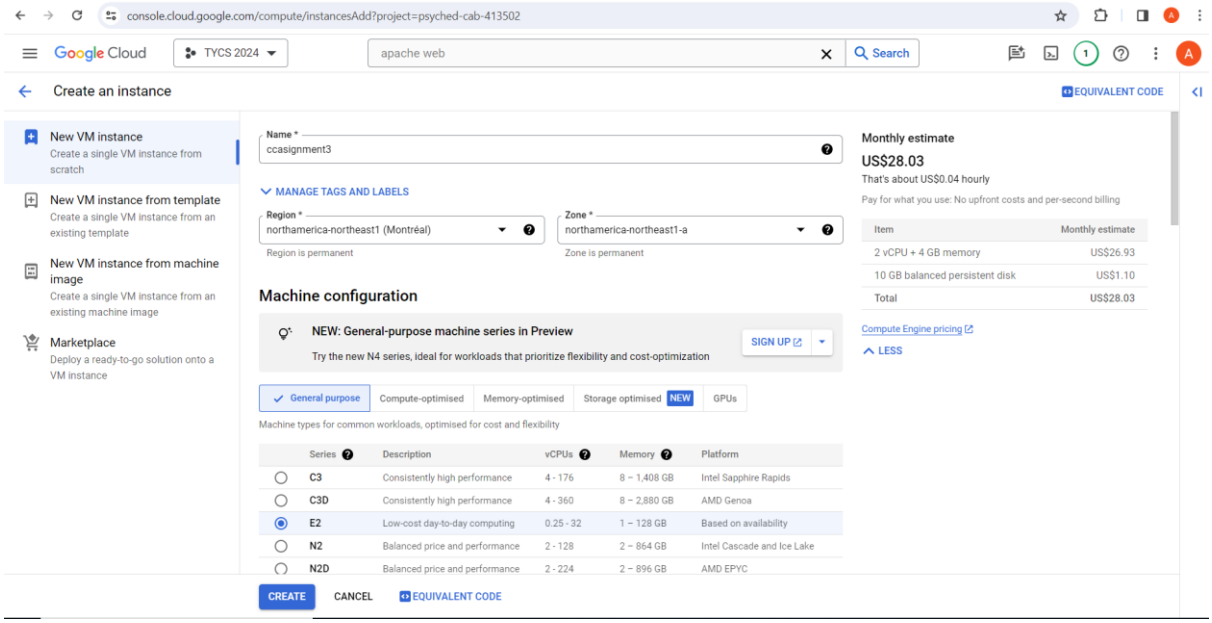


5)

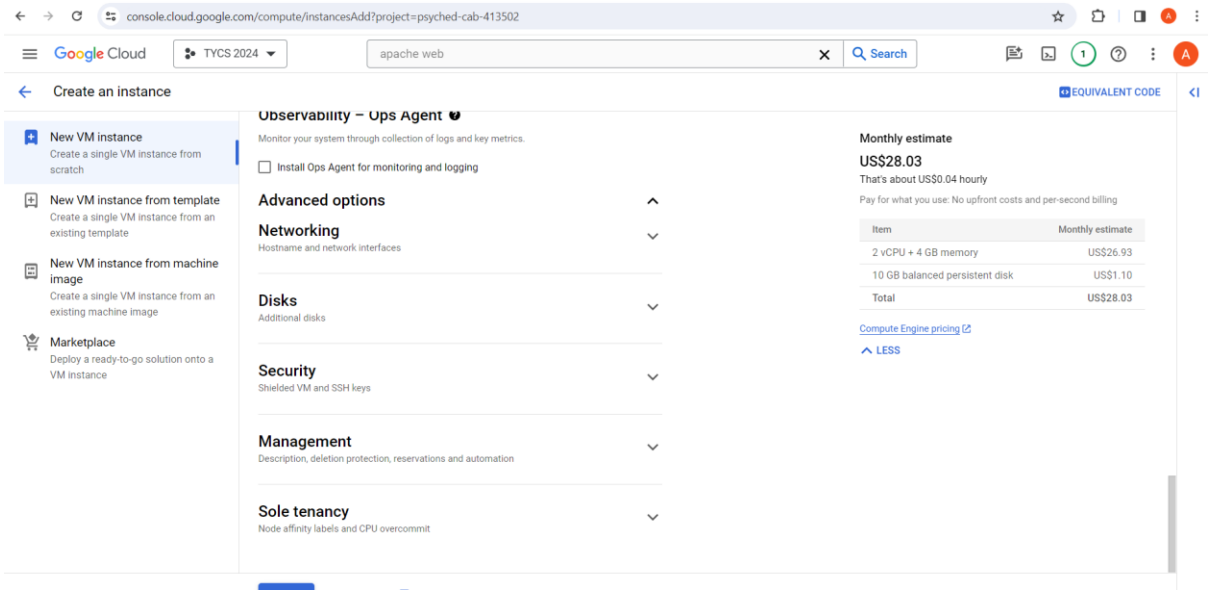
Create a VM instance



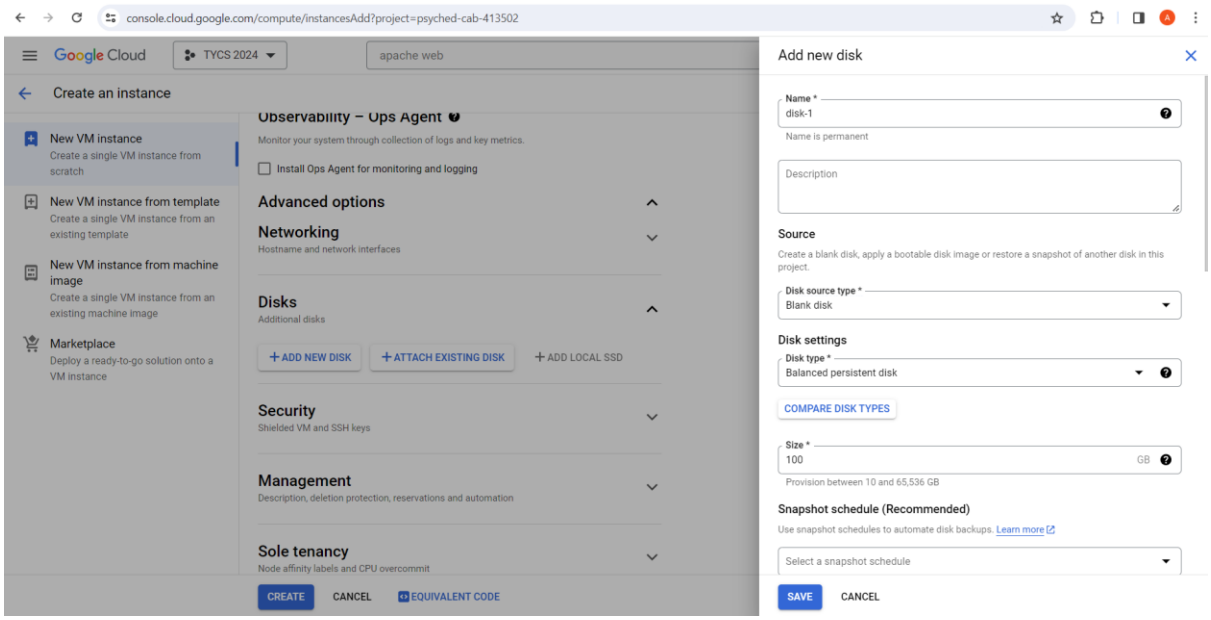
Select a different region



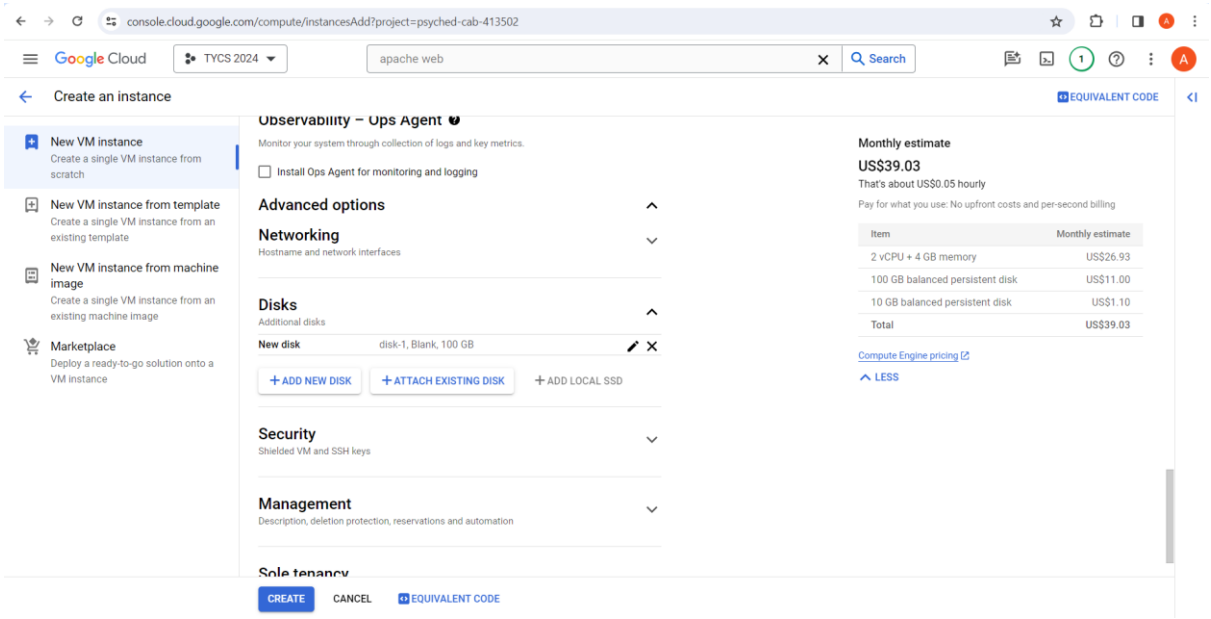
Click on Advanced option, we get option called Disks



From that select Add New Disk option, and create a new disk.

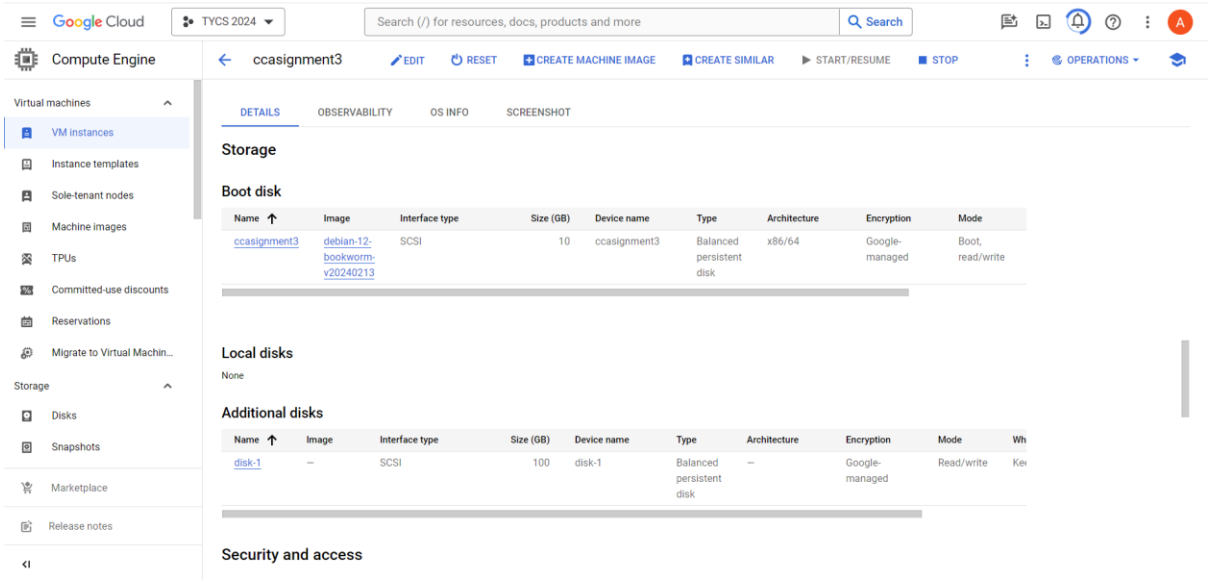


Now create option, you have created Backup with persistent disk.

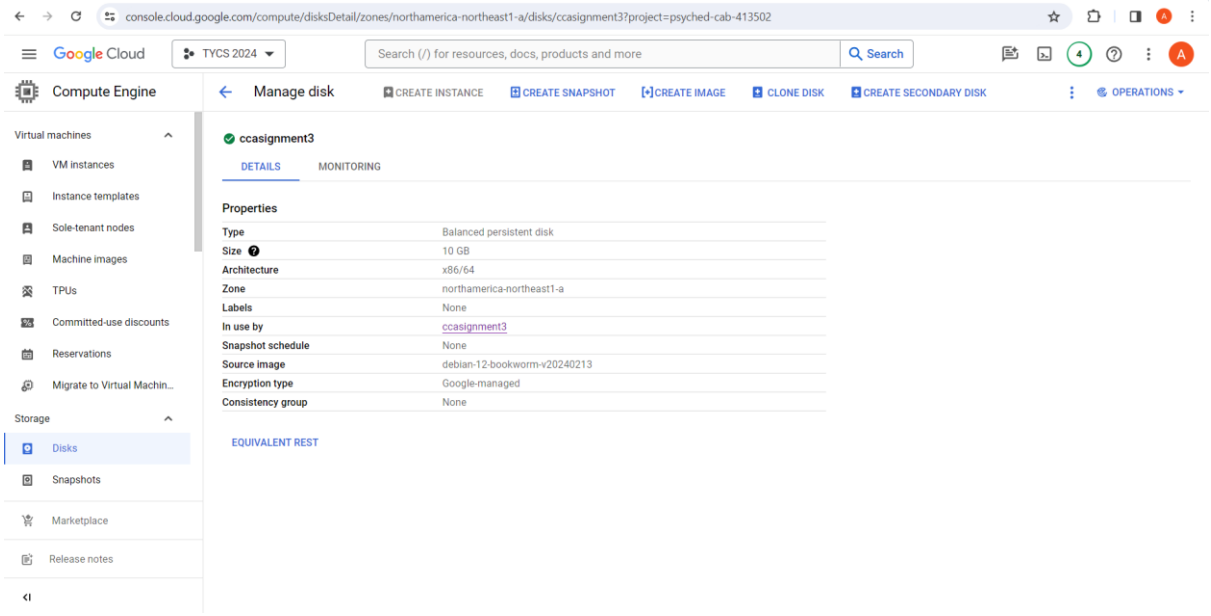


6)

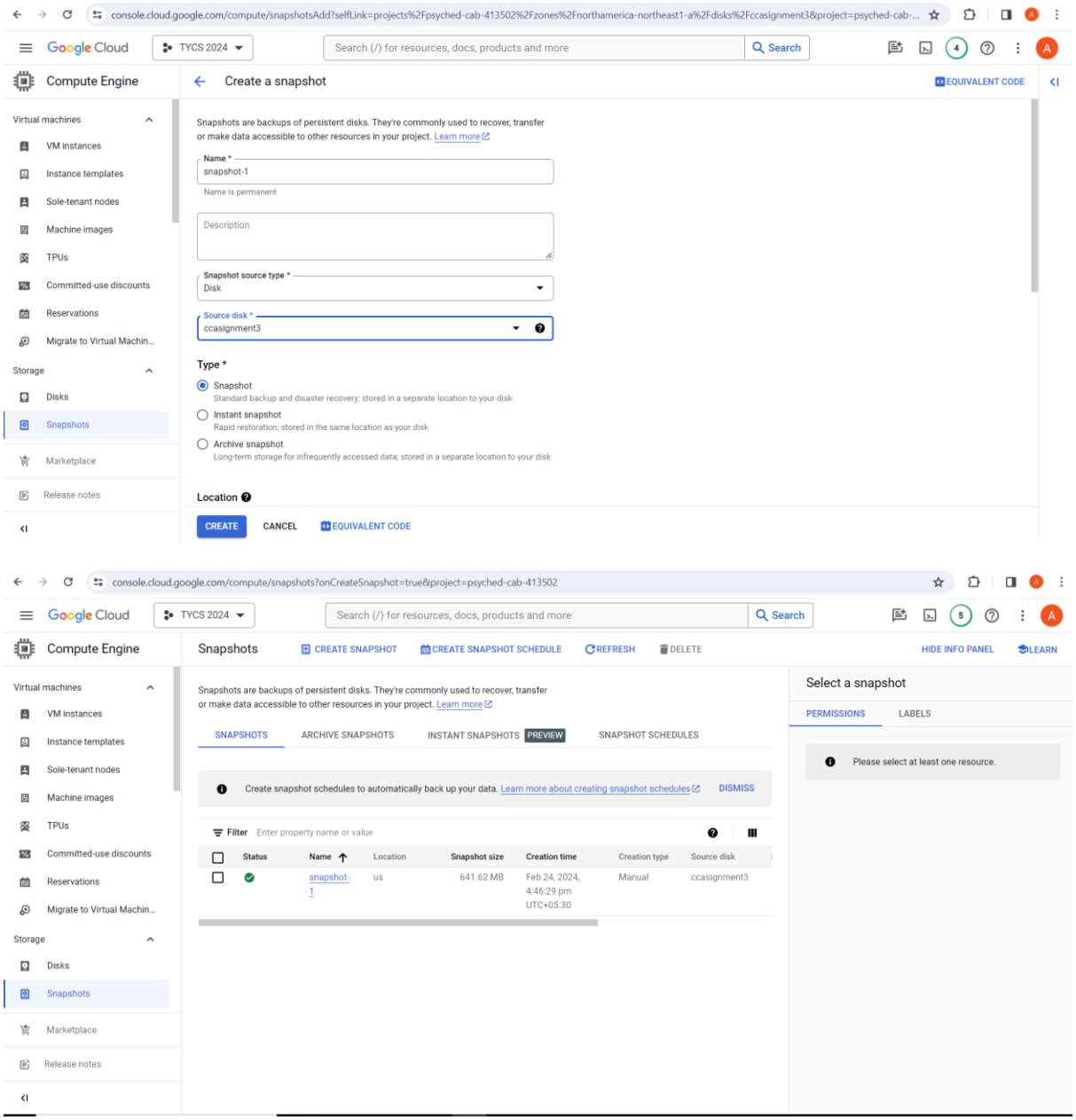
Select a instance and click on the bootdisk storage.



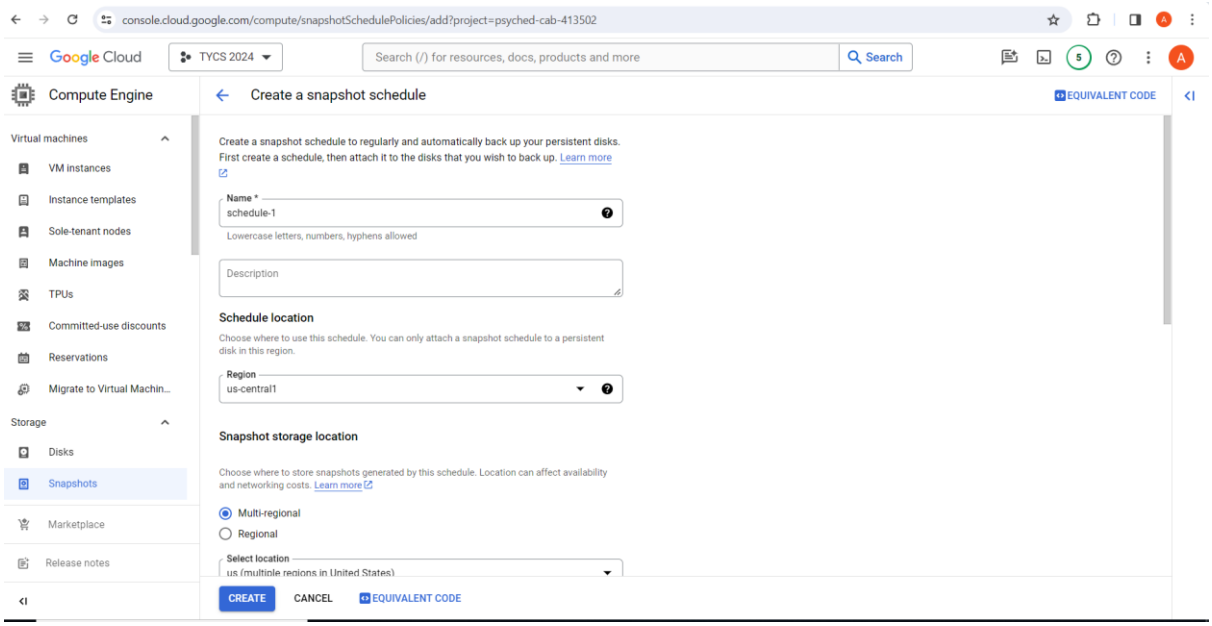
The click on the create snapshot option.

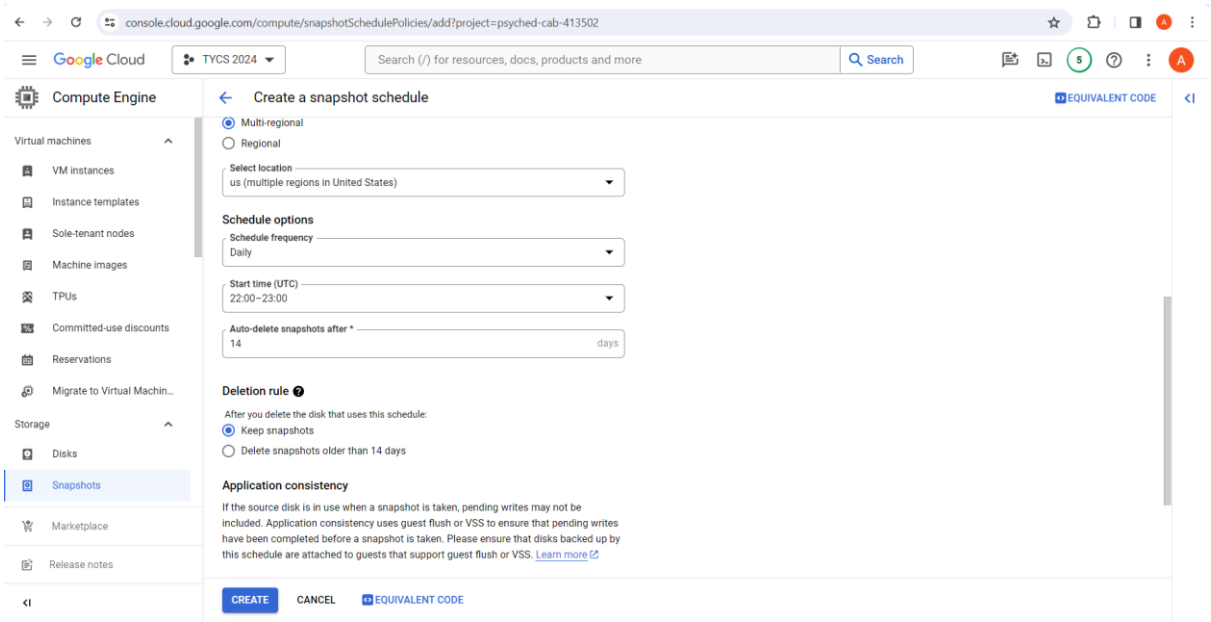


Then create a snapshot.

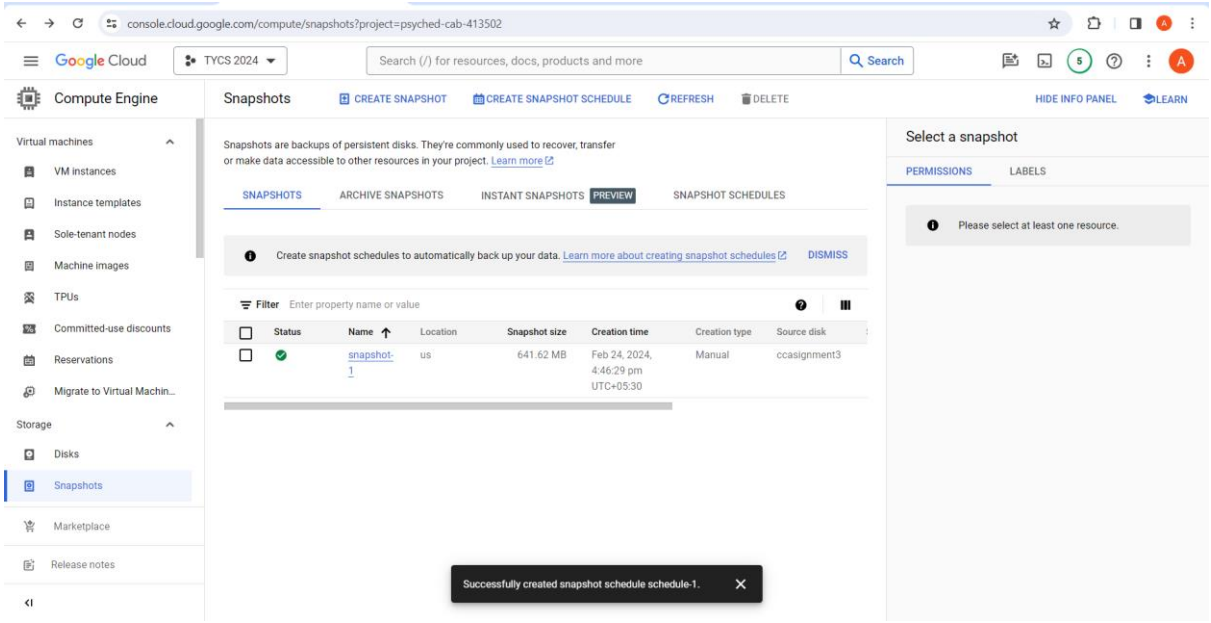


Now click on the create snapshot schedule option and schedule your snapshot.



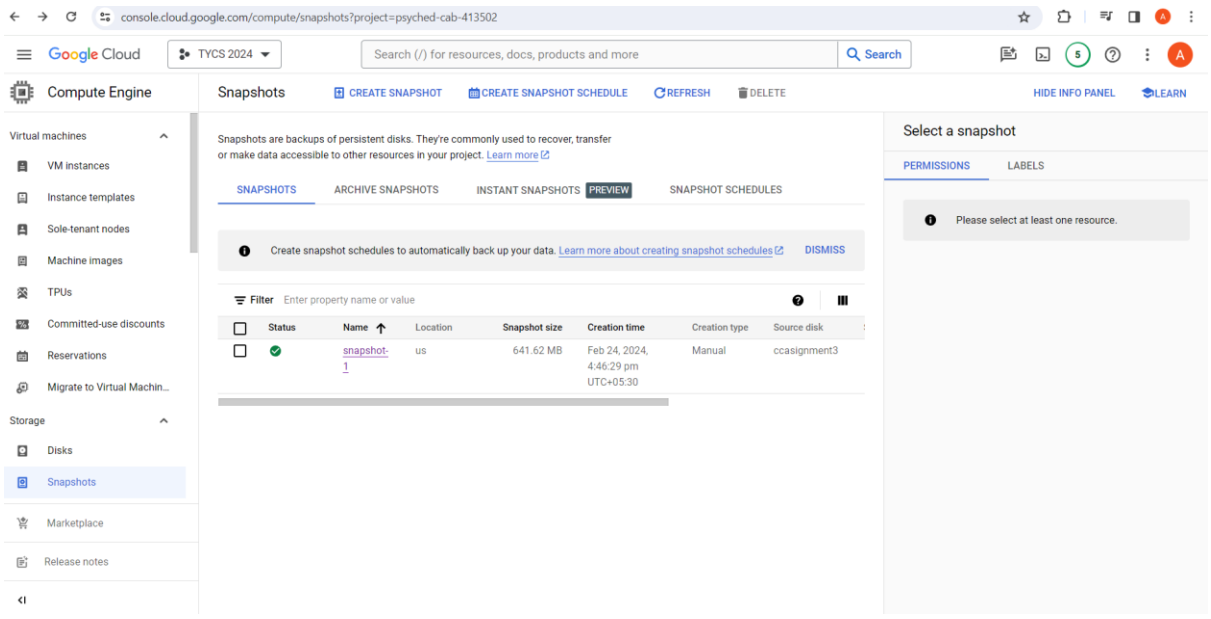


You successfully a created a schedule snapshot.

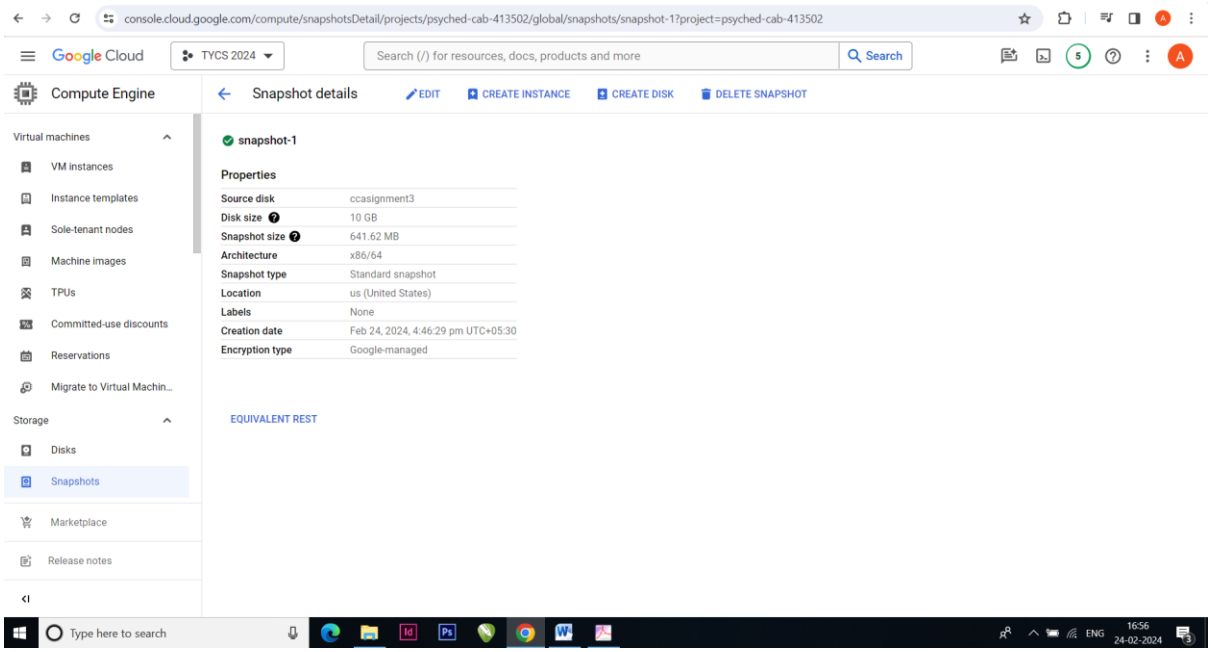


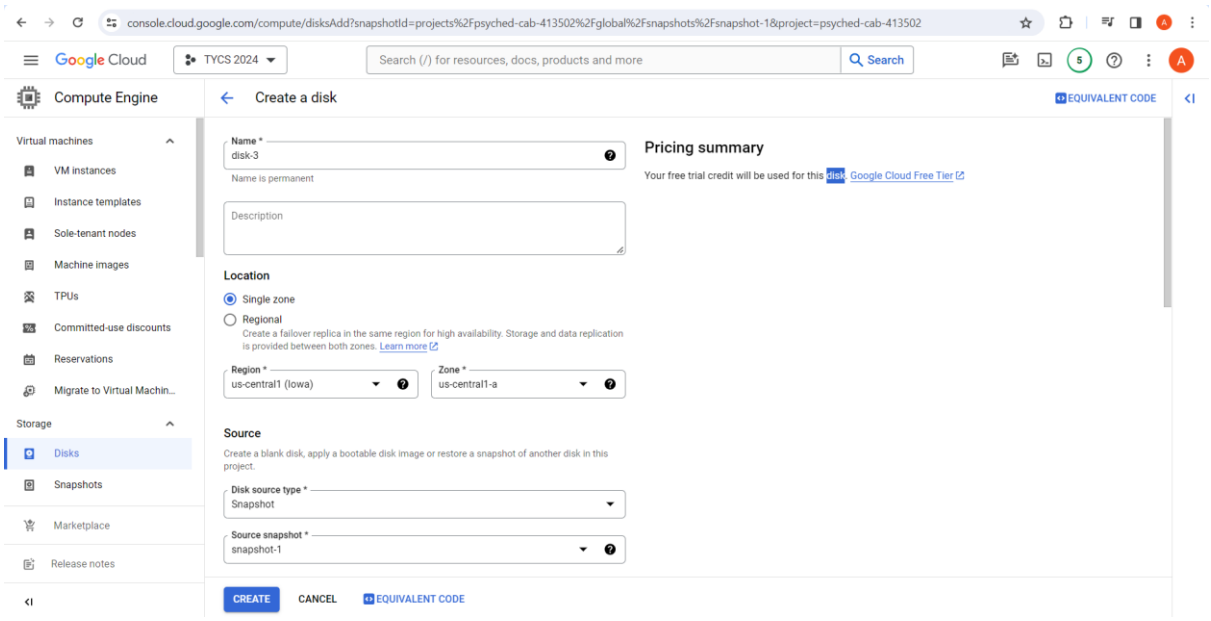
7)

Click on Snapshot option from the sidebar and select a snapshot from it.

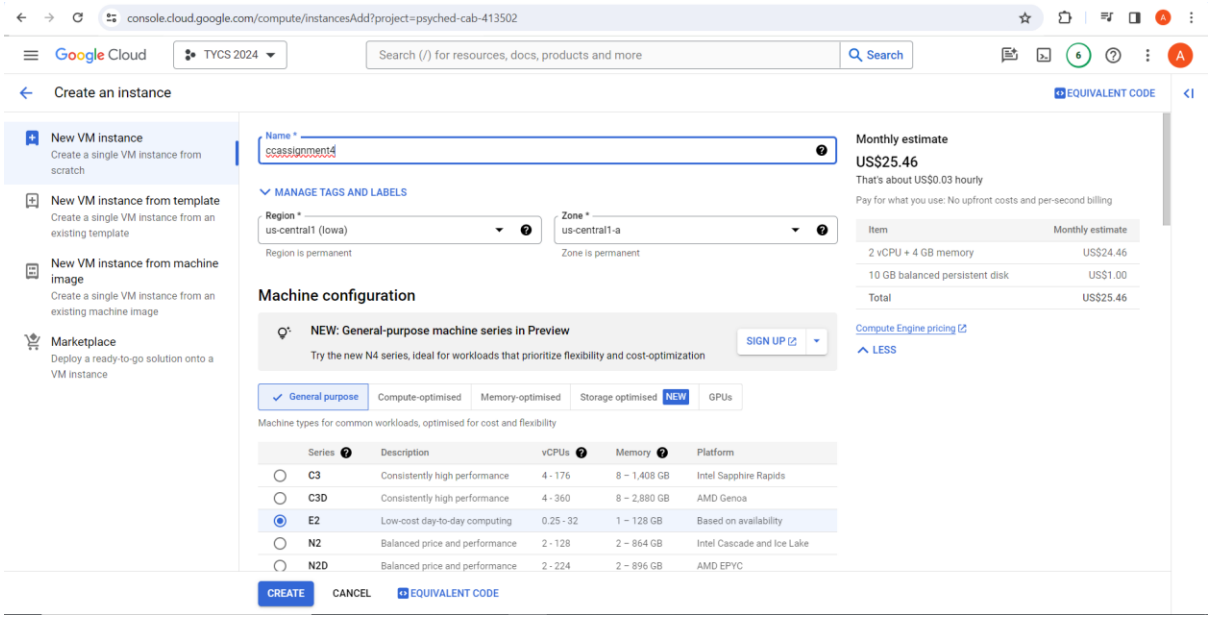


Then select the option create a disk and create a disk.

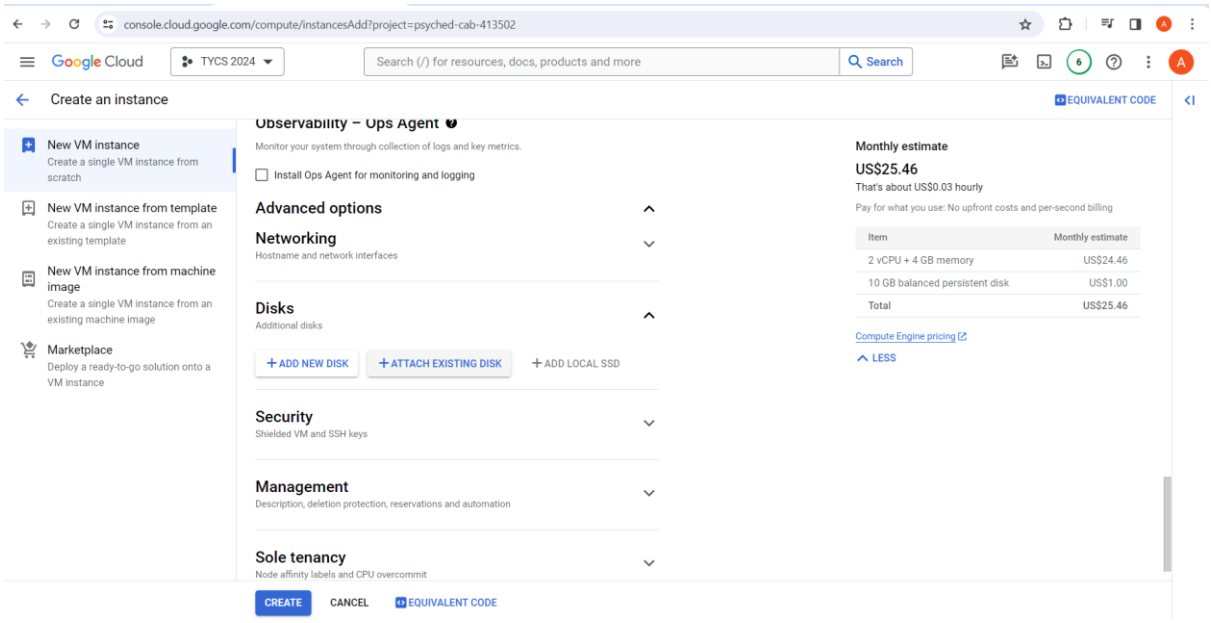


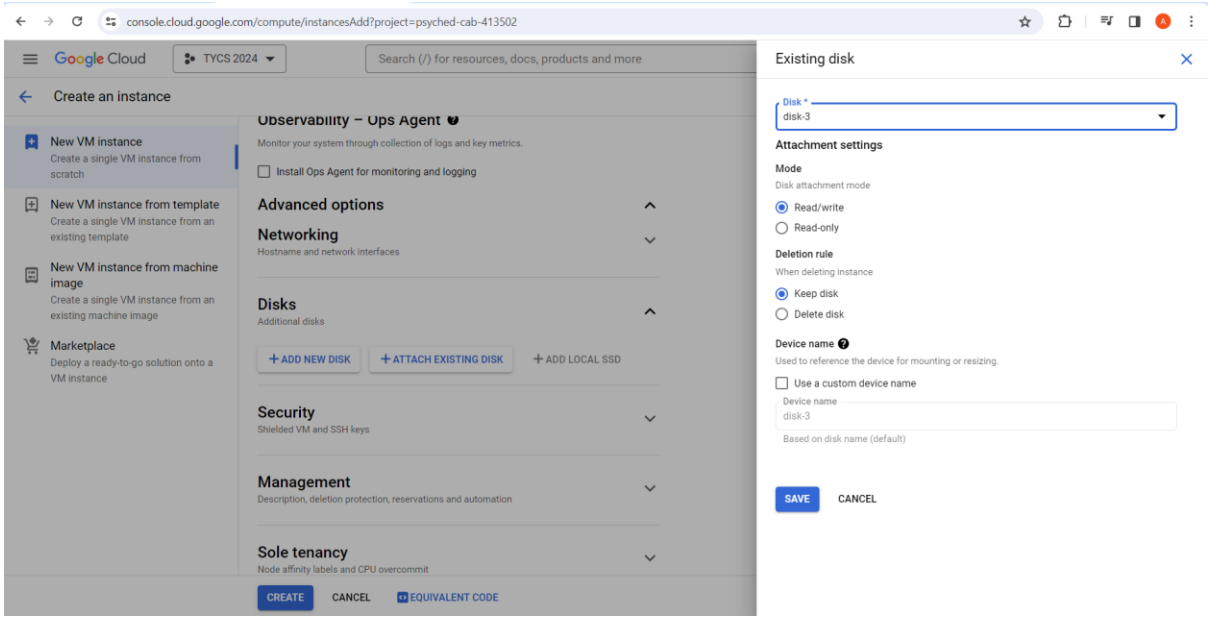


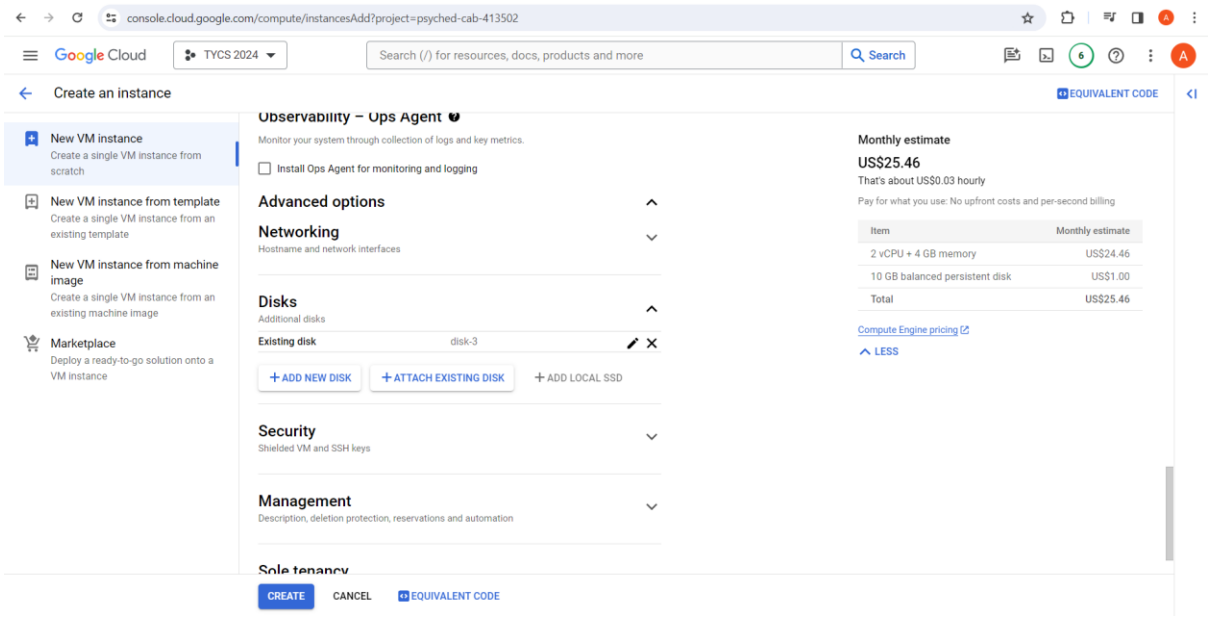
Now create a instance



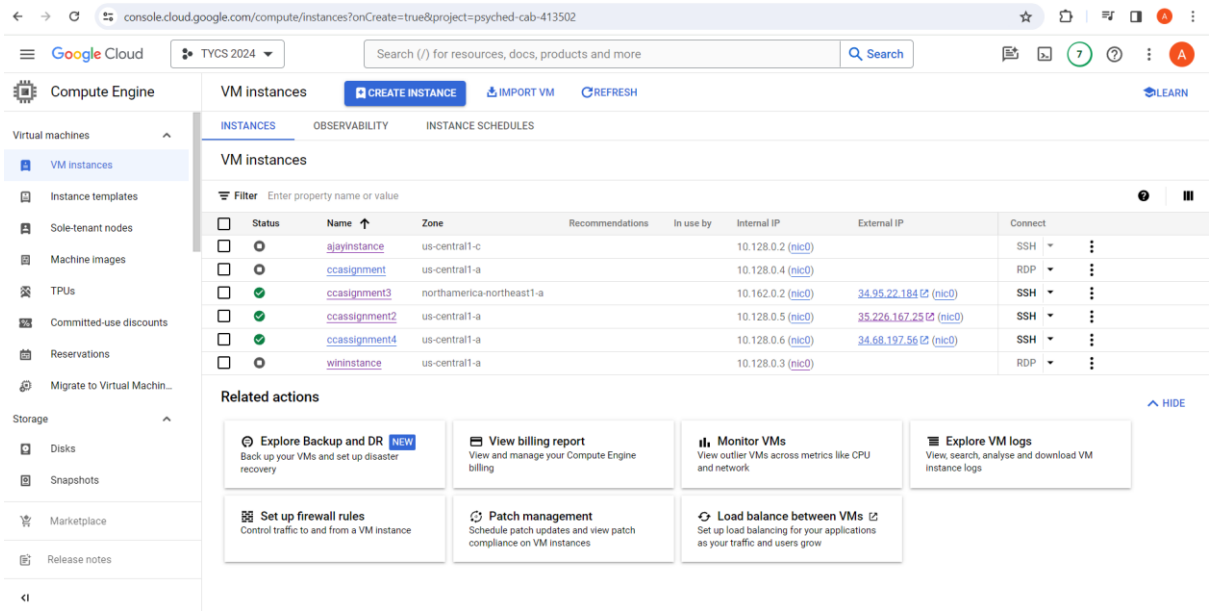
In Disks option, select attach existing disk and select the disk you have created.





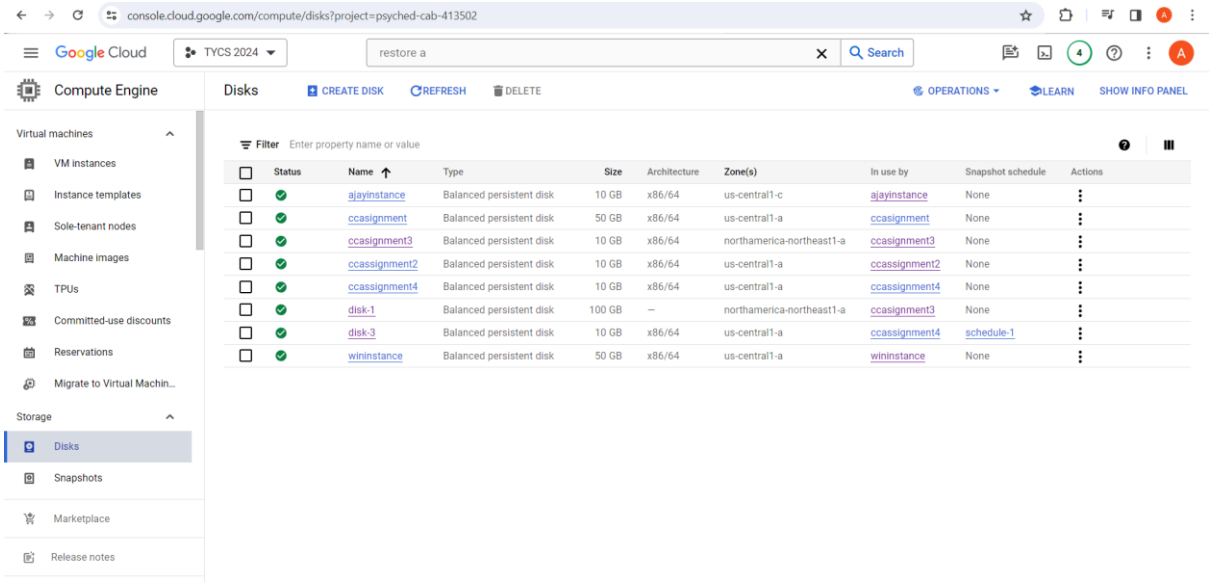


After creating it, start the VM instance, your session is restored here.

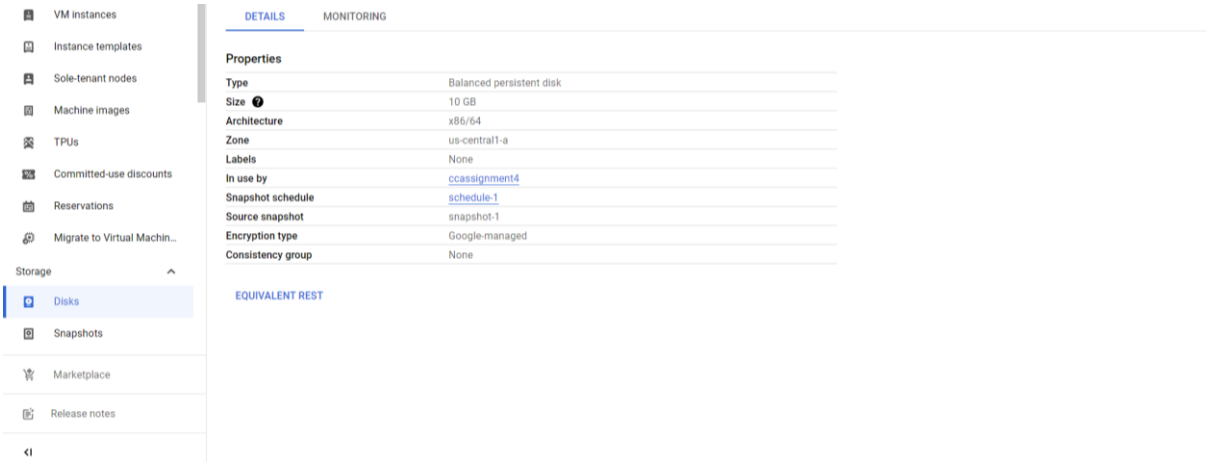


8)

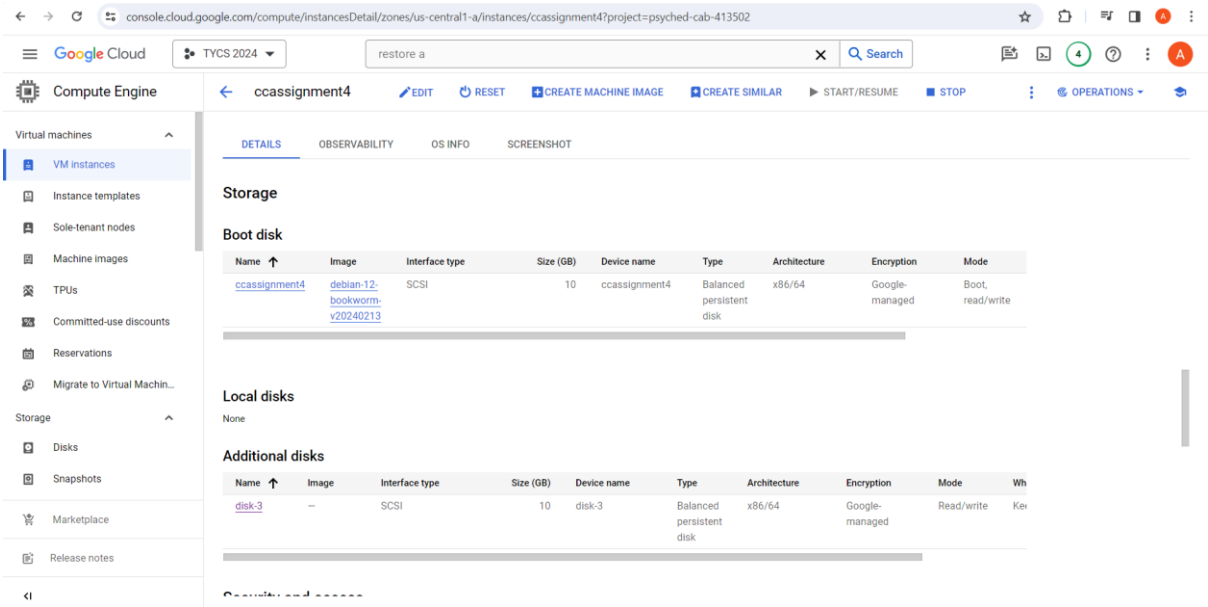
Select the Disk option from the sidebar and select the ccassignment4 disk



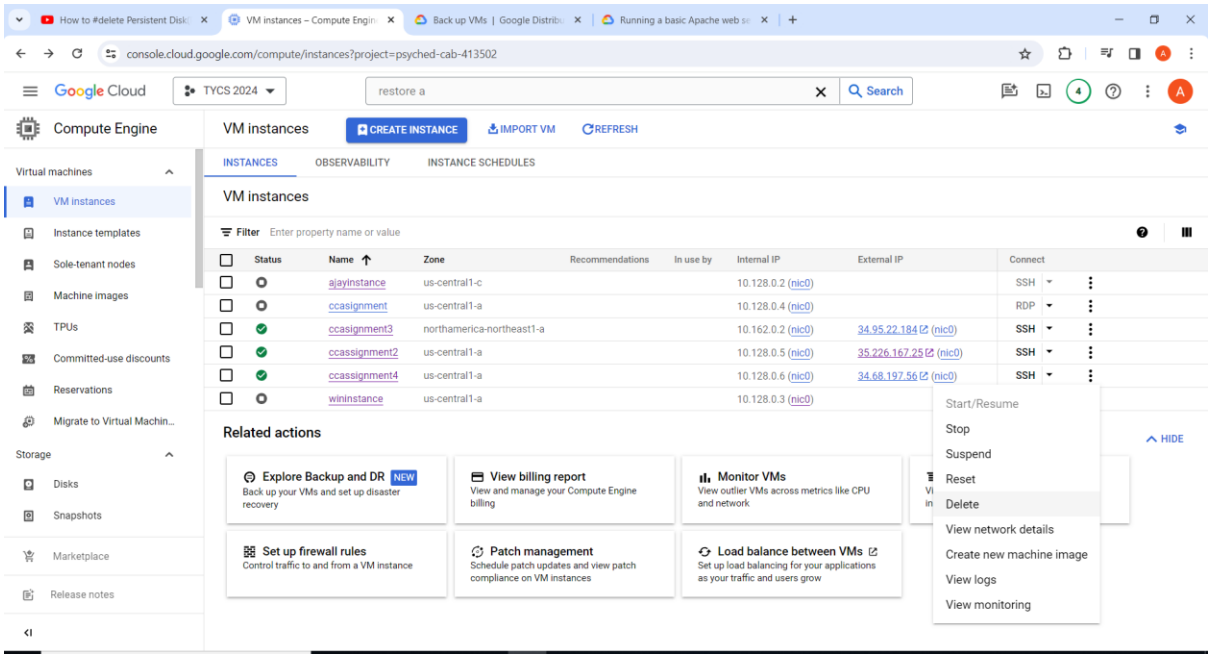
You will see that the disk is in use by ccassignment4

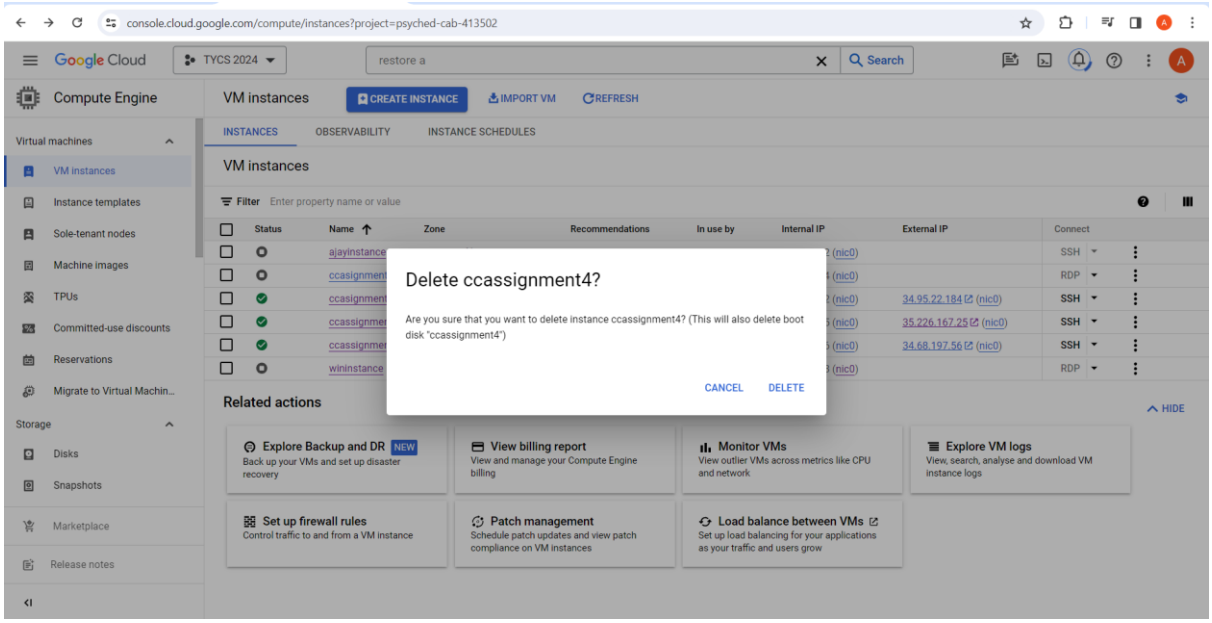


Now go to that ccassignment4 instance you will see there is Boot disk ccassignment4

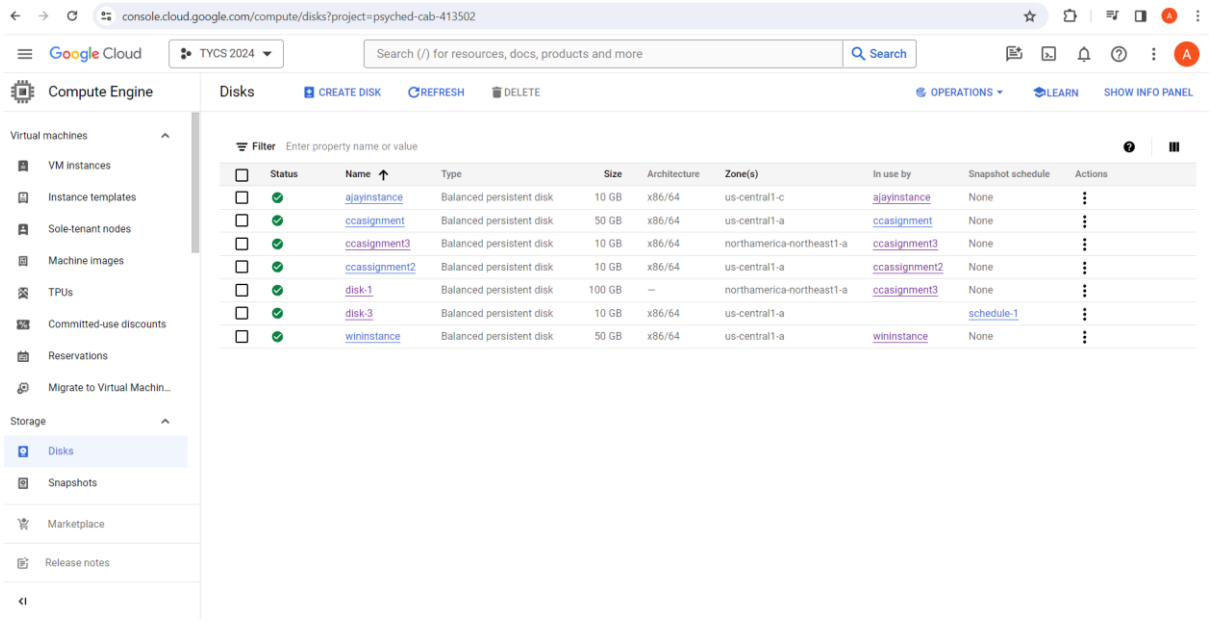


Delete the ccassignment4 instance.

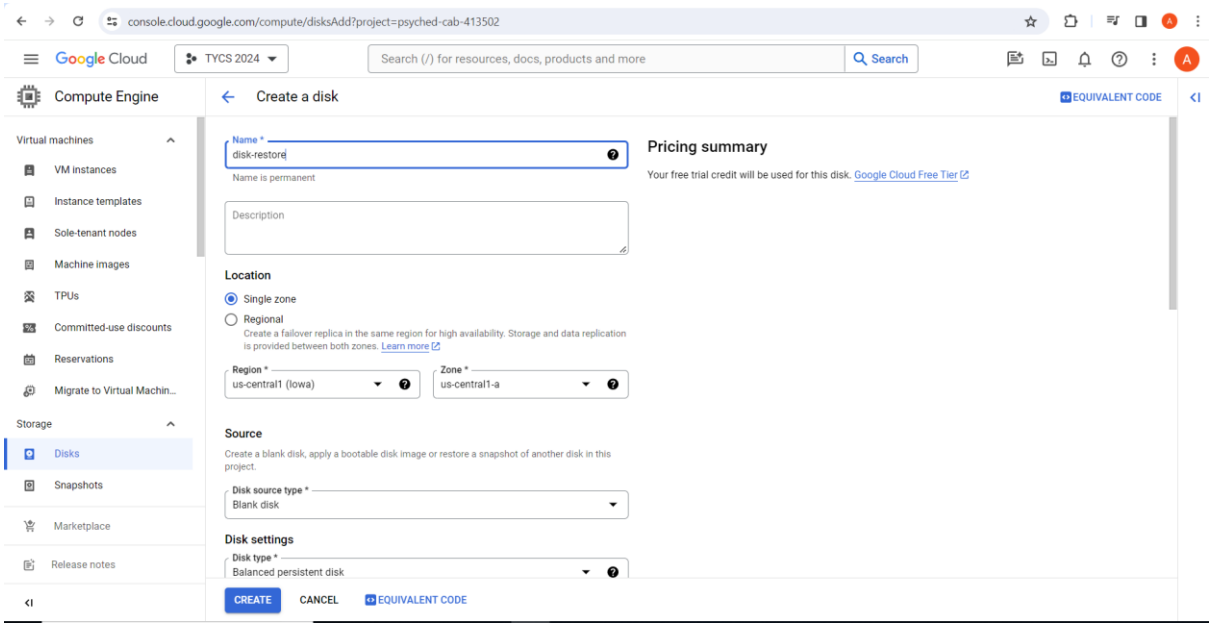




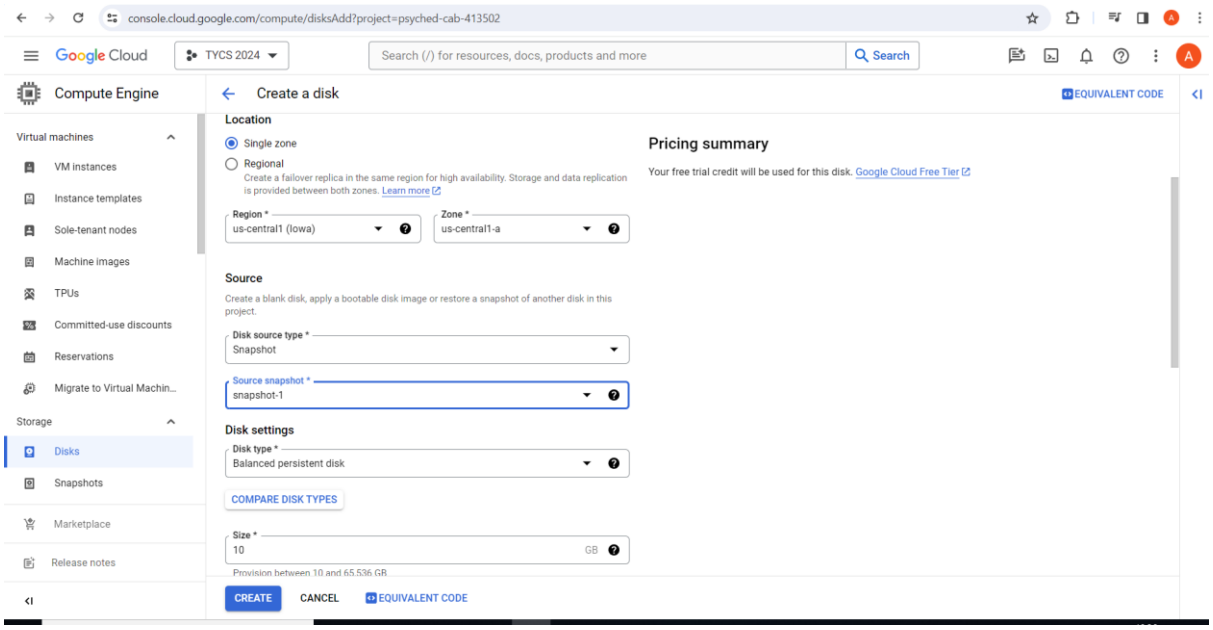
Ccassignment4 is successfully deleted.



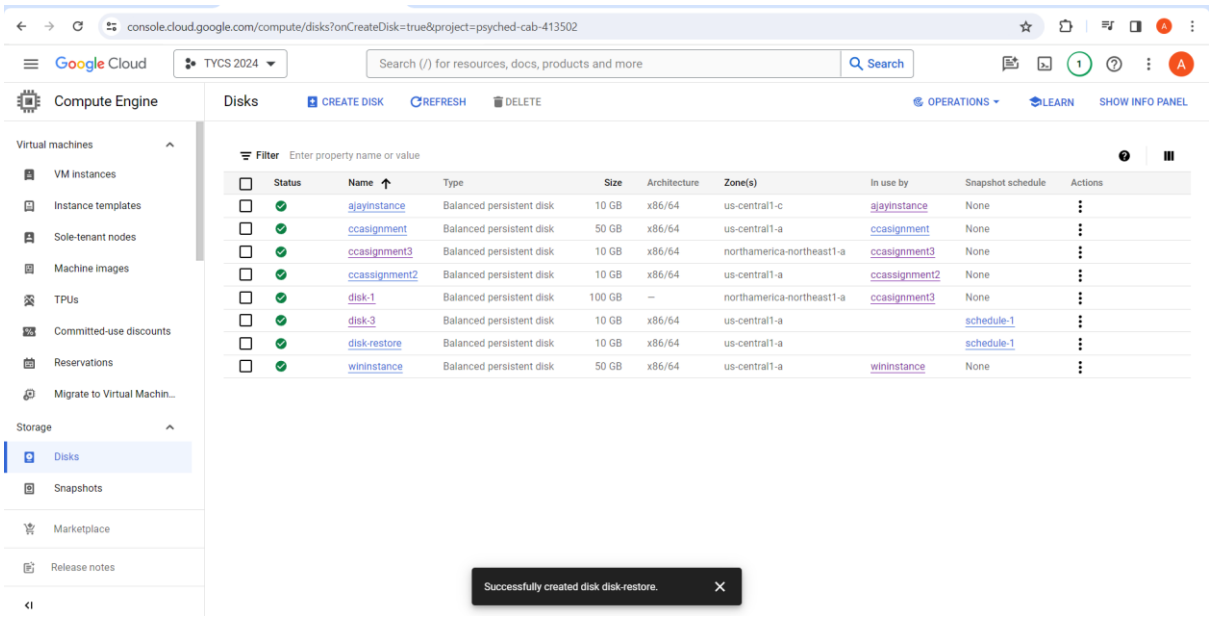
Now create a disk to restore the session of ccassignment4

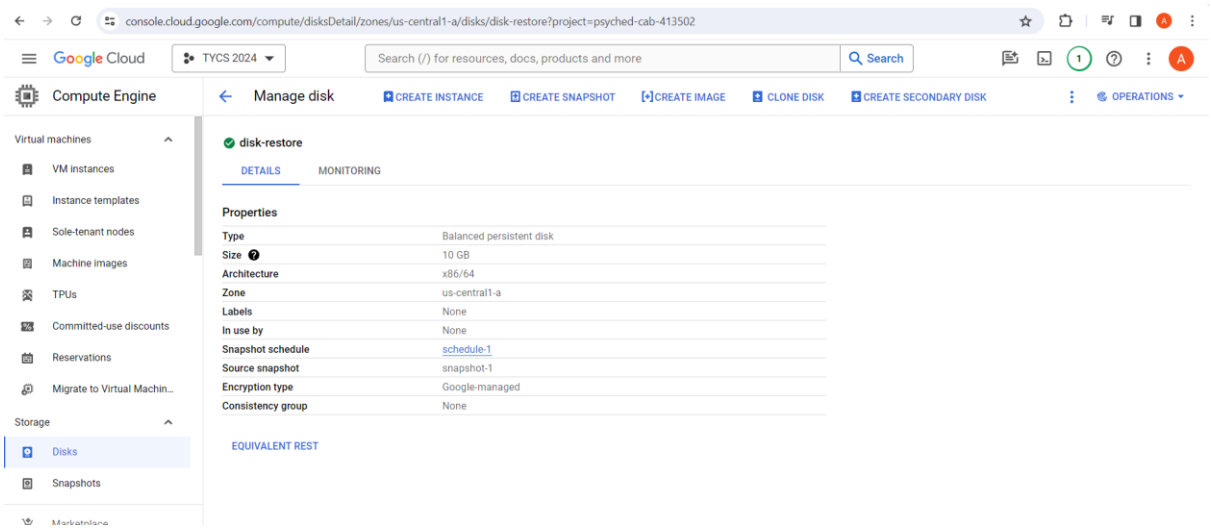


Select the Disk source type as Snapshot, and select the snapshot1.



You have successfully restored a disk from the snapshot.




console.cloud.google.com/compute/disksDetail/zones/us-central1-a/disks/disk-restore?project=psyched-cab-413502
Google Cloud
TYCS 2024
Search (/) for resources, docs, products and more
Search
Compute Engine
Manage disk
CREATE INSTANCE
CREATE SNAPSHOT
CREATE IMAGE
CLONE DISK
CREATE SECONDARY DISK
OPERATIONS
Virtual machines
VM instances
Instance templates
Sole-tenant nodes
Machine images
TPUs
Committed-use discounts
Reservations
Migrate to Virtual Machin...
Storage
Disks
Snapshots
disk-restore
DETAILS
MONITORING
Properties
Type
Balanced persistent disk
Size
10 GB
Architecture
x86/64
Zone
us-central1-a
Labels
None
In use by
None
Snapshot schedule
schedule-1
Source snapshot
snapshot-1
Encryption type
Google-managed
Consistency group
None
EQUIVALENT REST