

Create a VM (specs can be similar to assignment) /gcloud

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Google Cloud Kajiroemich-CS14160-W2023 Search (/) for resources, docs, products, and more Search 📄 🔔 👤 ⌵ K

← Create an instance EQUIVALENT CODE HELP ASSISTANT ⌵

To create a VM instance, select one of the options:

- New VM instance**
Create a single VM instance from scratch
- New VM instance from template**
Create a single VM instance from an existing template
- New VM instance from machine image**
Create a single VM instance from an existing machine image
- Marketplace**
Deploy a ready-to-go solution onto a VM instance

Name *
csi4160-final

Labels
[+ ADD LABELS](#)

Region *
us-east1 (South Carolina)

Zone *
us-east1-b

Region is permanent Zone is permanent

Monthly estimate
\$50.92
That's about \$0.07 hourly
Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
2 vCPU + 8 GB memory	\$48.92
20 GB balanced persistent disk	\$2.00
Total	\$50.92

[Compute Engine pricing](#)
[^ LESS](#)

Machine configuration
[General purpose](#) [Compute optimized](#) [Memory optimized](#) [GPUs](#)

Machine types for common workloads, optimized for cost and flexibility

Try the new C3 machine series. There's no charge for C3 VMs during public preview.

Series *
E2
CPU platform selection based on availability

Machine type
Choose a machine type with preset amounts of vCPUs and memory that suit most workloads. Or, you can create a custom machine for your workload's particular needs. [Learn more](#)

[PRESET](#) [CUSTOM](#)

e2-standard-2 (2 vCPU, 8 GB memory)

vCPU
2

Memory
8 GB

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[ADVANCED CONFIGURATIONS](#)

Display device
Enable to use screen capturing and recording tools.
☐ Enable display device

Confidential VM service
☒ Confidential Computing is disabled on this VM instance
[ENABLE](#)

Container
Deploy a container image to this VM instance
[DEPLOY CONTAINER](#)

Boot disk

Name
csi4160-final

Type
New balanced persistent disk

Size
20 GB

License type
Free

Image
Debian GNU/Linux 11 (bullseye)

[CHANGE](#)

Identity and API access
Service accounts
Service account

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Deploy a ready-to-go solution onto a VM instance

Name *
csi4160-final

Type
New balanced persistent disk

Size
20 GB

License type
Free

Image
Debian GNU/Linux 11 (bullseye)

[CHANGE](#)

Identity and API access
Service accounts
Service account
Compute Engine default service account
Requires the Service Account User role (roles/iam.serviceAccountUser) to be set for users who want to access VMs with this service account. [Learn more](#)

Access scopes
☒ Allow default access
☐ Allow full access to all Cloud APIs
☐ Set access for each API

Firewall
Add tags and firewall rules to allow specific network traffic from the Internet
☒ Allow HTTP traffic
☒ Allow HTTPS traffic

Advanced options
Networking, disks, security, management, sole-tenancy

[CREATE](#) [CANCEL](#) [EQUIVALENT CODE](#)

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2 vCPU + 8 GB memory	\$48.92
20 GB balanced persistent disk	\$2.00
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[Compute Engine pricing](#)
[^ LESS](#)

Screenshots above show that I'm making a new VM titled "CSI-4160-final"

Initiate VM

```
https://ssh.cloud.google.com/v2/ssh/projects/keijiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=...
ssh.cloud.google.com/v2/ssh/projects/keijiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=en_...
SSH-in-browser
[+] UPLOAD FILE [v] DOWNLOAD FILE [i] [k] [g]

100 1210 100 1210 0 0 28139 0 --:--:-- --:--:-- --:--:-- 28139
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
csi4160keijiroemmich@csi4160-final-vm:~$ curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-
key add -
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1210 100 1210 0 0 41724 0 --:--:-- --:--:-- --:--:-- 41724
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
csi4160keijiroemmich@csi4160-final-vm:~$ curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo tee
/usr/share/keyrings/cloud.google.gpg
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1210 100 1210 0 0 60500 0 --:--:-- --:--:-- --:--:-- 60500
E<uZ_M(3Zn!#f)J5f7<tflN:9jJl,!$u_J0m"TNJe0r+QRapture Automatic Signing Key (cloud-rapture-signing-key-2022-03-0
@H =j^yQ6+:nA|9F6#w4Q2l =
/?66[^\,
n4yY[u]=je#i2I&v'e))rW u(
,,4廢

@) (0aB+:Xk?@(.Ih{,D6ldn.<Bn>wLLBK/:bb3airNV_APd.)I 'd ST22URFJh+Qs2b@#DM0]E4>Q[
l"8 Lz'00
C.
$CND|CHjkr,Gmq;zrba;QzI4n&*R<'!^mX/FxL驀u
3tNFpny'b =
cVDOASed^lV@#?,7?1IX]\DrFu7t&ZCyZ+jzrI45VR! '!wGdP\$/B
,pmE+Ew*6'IffcGjeV;mJd0Du],K
R,Hoq9gpp
csi4160keijiroemmich@csi4160-final-vm:~$ sudo apt-get update && sudo apt-get install google-cloud-cli -cloud-cli
Get:1 http://security.debian.org/debian-security bullseye-security InRelease [48.4 kB]
Hit:2 http://deb.debian.org/debian bullseye InRelease
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://deb.debian.org/debian bullseye-backports InRelease [49.0 kB]
Hit:5 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable InRelease
Hit:6 http://packages.cloud.google.com/apt cloud-sdk-bullseye InRelease
Get:7 https://packages.cloud.google.com/apt cloud-sdk InRelease [6361 B]
```

```
https://ssh.cloud.google.com/v2/ssh/projects/keijiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=...
ssh.cloud.google.com/v2/ssh/projects/keijiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=en_...
SSH-in-browser
[+] UPLOAD FILE [v] DOWNLOAD FILE [i] [k] [g]

100 1210 100 1210 0 0 28139 0 --:--:-- --:--:-- --:--:-- 28139
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
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key add -
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1210 100 1210 0 0 41724 0 --:--:~ --:~:~ --:~:~ 41724
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
csi4160keijiroemmich@csi4160-final-vm:~$ curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo tee
/usr/share/keyrings/cloud.google.gpg
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1210 100 1210 0 0 60500 0 --:~:~ --:~:~ --:~:~ 60500
E<uZ_M(3Zn!#f)J5f7<tflN:9jJl,!$u_J0m"TNJe0r+QRapture Automatic Signing Key (cloud-rapture-signing-key-2022-03-0
@H =j^yQ6+:nA|9F6#w4Q2l =
/?66[^\,
n4yY[u]=je#i2I&v'e))rW u(
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@) (0aB+:Xk?@(.Ih{,D6ldn.<Bn>wLLBK/:bb3airNV_APd.)I 'd ST22URFJh+Qs2b@#DM0]E4>Q[
l"8 Lz'00
C.
$CND|CHjkr,Gmq;zrba;QzI4n&*R<'!^mX/FxL驀u
3tNFpny'b =
cVDOASed^lV@#?,7?1IX]\DrFu7t&ZCyZ+jzrI45VR! '!wGdP\$/B
,pmE+Ew*6'IffcGjeV;mJd0Du],K
R,Hoq9gpp
csi4160keijiroemmich@csi4160-final-vm:~$ sudo apt-get update && sudo apt-get install google-cloud-cli -cloud-cli
Get:1 http://security.debian.org/debian-security bullseye-security InRelease [48.4 kB]
Hit:2 http://deb.debian.org/debian bullseye InRelease
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://deb.debian.org/debian bullseye-backports InRelease [49.0 kB]
Hit:5 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable InRelease
Hit:6 http://packages.cloud.google.com/apt cloud-sdk-bullseye InRelease
Get:7 https://packages.cloud.google.com/apt cloud-sdk InRelease [6361 B]
```

```
https://ssh.cloud.google.com/v2/ssh/projects/kejiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=en...
ssh.cloud.google.com/v2/ssh/projects/kejiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=en...
SSH-in-browser
[Icons: UPLOAD FILE, DOWNLOAD FILE, Chat, Keyboard, Settings]

100 1210 100 1210 0 0 28139 0 --:--:-- --:--:-- --:--:-- 28139
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csi4160kejiroemmich@csi4160-final-vm:~$ curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1210 100 1210 0 0 41724 0 --:--:-- --:--:-- --:--:-- 41724
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
csi4160kejiroemmich@csi4160-final-vm:~$ curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo tee /usr/share/keyrings/cloud.google.gpg
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 1210 100 1210 0 0 60500 0 --:--:-- --:--:-- --:--:-- 60500
R<uZ_M(3Zn!#f)J&f7<tflN:9jJL, l$.u_J0m"THJe0r+QRapture Automatic Signing Key (cloud-rapture-signing-key-2022-03-0
@H =j!yQ6+:nA|9F&#w4Q2l =
/?&6[^\.
n4yY]u=j#i2I&v'e])xW u(
,,4屢

@) (0aB+:Xk?@{.Ih{,D&ldn.<Bn>wLLBK/:bb3airNV_Apd.}I 'D ST22URFJh+Qs2b@#DM0]E4>Q[
l"8 Lz'0O
C.
$CND!CHjkr,Gmq; zrbagI4n<R<!^mX/FxL&u
3tNFnny'b =
cVD0A$ed'1V@#?,7?1IX] \DrFu7t&ZCyZ+jzrI45VR&! '!wGdP\${+B
,pmE+Ew* &'IficGjeV;mJf0Du},K
R,Hoq9gpp
csi4160kejiroemmich@csi4160-final-vm:~$ sudo apt-get update && sudo apt-get install google-cloud-cli -cloud-cli
Get:1 http://security.debian.org/debian-security bullseye-security InRelease [48.4 kB]
Hit:2 http://deb.debian.org/debian bullseye InRelease
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://deb.debian.org/debian bullseye-backports InRelease [49.0 kB]
Hit:5 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable InRelease
Hit:6 http://packages.cloud.google.com/apt cloud-sdk-bullseye InRelease
Get:7 https://packages.cloud.google.com/apt cloud-sdk InRelease [6361 B]
```

Create and attach new HDD to your VM

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Compute Engine

Migrate to Virtual Machine...

Storage

Disks

Snapshots

Images

Async Replication

Instance groups

Instance groups

Health checks

VM Manager

OS patch management

OS configuration manage...

Bare Metal Solution

Servers

Networks

Marketplace

Release Notes

Create a disk

Name * final-disk ⓘ Your free trial credit will be used for this disk. [Google Cloud Free Tier](#)

Name is permanent

Description ⓘ

Location

☒ Single zone

☐ Regional
Create a failover replica in the same region for high availability Storage and data replication is provided between both zones. [Learn more](#)

Region * us-central1 (Iowa) ⓘ

Zone * us-central1-a ⓘ

Source

Create a blank disk, apply a bootable disk image, or restore a snapshot of another disk in this project.

Disk source type * Blank disk ⓘ

Disk settings

Disk type * Standard persistent disk ⓘ

COMPARE DISK TYPES

Size * 10GB ⓘ

CREATE CANCEL EQUIVALENT COMMAND LINE ▾

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Compute Engine

Migrate to Virtual Machin...

Storage

Disks

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Instance groups

Instance groups

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VM Manager

OS patch management

OS configuration manage...

Bare Metal Solution

Servers

Networks

Marketplace

Release Notes

← Create a disk

Size *500GB

Provision between 10 and 65,536 GB

Your free trial credit will be used for this disk. [Google Cloud Free Tier](#)

Snapshot schedule (Recommended)

Use snapshot schedules to automate disk backups. [Learn more](#)

☒ Enable snapshot schedule

Select or create a snapshot schedule *default-schedule-1

Every day, starts between 10:00 AM and 11:00 AM

Consistency group

Select or create a consistency group

Encryption

Data is encrypted automatically. Select an encryption key management solution.

☒ Google-managed encryption key
No configuration required

☐ Customer-managed encryption key (CMEK)
Manage via [Google Cloud Key Management Service](#)

☐ Customer-supplied encryption key (CSEK)
Manage outside of Google Cloud

Labels

+ ADD LABEL

You're creating an unformatted disk. Format the disk after you attach it to your VM instance. [Formatting and mounting a zonal persistent disk](#)

CREATECANCEL EQUIVALENT COMMAND LINE

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Compute Engine

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Machine Images

TPUs

Committed use discounts

Reservations

Migrate to Virtual Machin...

Storage

Disks

Snapshots

Images

Async Replication

Instance groups

Marketplace

Release Notes

← Edit csi4160-final-vm instance

ModeBoot, read/write

Snapshot scheduleNone

Deletion rule

When deleting instance

☐ Keep disk

☒ Delete disk

Device name

Used to reference the device for mounting or resizing.

Device namecsi4160-final

Custom

✕ DETACH BOOT DISK

Additional disks

+ ADD NEW DISK+ ATTACH EXISTING DISK

Local disks

None

Security and access

Shielded VM

To edit Shielded VM features you need to stop the instance first. Turn on all settings for the most secure configuration...

SAVECANCEL

Successfully created disk "csi4160-final-disk".

Existing disk

Disk *csi4160-final-disk

Attachment settings

Mode

Disk attachment mode

☒ Read/write

☐ Read-only

Deletion rule

When deleting instance

☒ Keep disk

☐ Delete disk

Device name

Used to reference the device for mounting or resizing.

☐ Use a custom device name

Device namecsi4160-final-disk

Based on disk name (default)

SAVECANCEL

```
https://ssh.cloud.google.com/v2/ssh/projects/keijiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=en...
ssh.cloud.google.com/v2/ssh/projects/keijiroemmich-csi4160-w2023/zones/us-east1-b/instances/csi4160-final-vm?authuser=0&hl=en...

SSH-in-browser

UPLOAD FILE
DOWNLOAD FILE

Enabling service [compute.googleapis.com] on project [352083668933]...
ERROR: (gcloud.compute.zones.list) FAILED_PRECONDITION: Billing account for project '352083668933' is not found
. Billing must be enabled for activation of service(s) 'compute.googleapis.com,compute.googleapis.com,compute.g
oogleapis.com' to proceed.
Help Token: AT1-yKE3Al9iATP_ssMcuaeQg1L9fJyeuOyyirplzqG2p6MlvdcLfdUIPaoU4EBrINxdd_FkT2alf1n7-3Zz9GqS9zkWk0blnVd
tm0w8njo-Og_-
- '@type': type.googleapis.com/google.rpc.PreconditionFailure
violations:
- subject: ?error_code=390001&project=352083668933&services=compute.googleapis.com&services=compute.googleapi
s.com&services=compute.googleapis.com
type: googleapis.com/billing-enabled
- '@type': type.googleapis.com/google.rpc.ErrorInfo
domain: serviceusage.googleapis.com/billing-enabled
metadata:
project: '352083668933'
services: compute.googleapis.com,compute.googleapis.com,compute.googleapis.com
reason: UREQ_PROJECT_BILLING_NOT_FOUND
csi4160keijiroemmich@csi4160-final-vm:~$ gcloud compute instances $1 --zone "your-proj-zone" "VM" --project "na
me-of-project"
ERROR: (gcloud.compute.instances) unrecognized arguments: --zone

To search the help text of gcloud commands, run:
gcloud help -- SEARCH_TERMS
csi4160keijiroemmich@csi4160-final-vm:~$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 20G 0 disk
└─sda1 8:1 0 19.9G 0 part /
└─sda14 8:14 0 3M 0 part
└─sda15 8:15 0 124M 0 part /boot/efi
csi4160keijiroemmich@csi4160-final-vm:~$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 20G 0 disk
└─sda1 8:1 0 19.9G 0 part /
└─sda14 8:14 0 3M 0 part
└─sda15 8:15 0 124M 0 part /boot/efi
sdb 8:16 0 100G 0 disk
csi4160keijiroemmich@csi4160-final-vm:~$
```

Create a Cloud SQL / database / Table

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Google Cloud

Keijiroemmich-Csi4160-W2023

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SQL

Overview

EDIT

IMPORT

EXPORT

RESTART

STOP

DELETE

CLONE

FAILOVER

HELP ASSISTANT

PRIMARY INSTANCE

Overview

System insights

Query insights

Connections

Users

Databases

Backups

Replicas

Operations

All instances > csi4

You can't edit instance right now because it's not runnable

csi4160-keijiroemmich-final-sql

PostgreSQL 14

Instance is being created. This may take a few minutes. While this operation is running, you may continue to view information about the instance.

Chart

CPU utilization

No data is available for the selected time frame.

Go to Query insights for more in-depth info on queries and performance

Connect to this instance

Connection name

keijiroemmich-csi4160-w2023-us-central1-csi4160-keijiroemmich-final-sql

Configuration

vCPUs

4

Memory

26 GB

SSD storage

100 GB

Database version is PostgreSQL 14.5

Instance is being created

Need help connecting?

View the documentation to learn about the many ways to connect to your instance.

https://console.cloud.google.com/sql/instances/csi4160-keijiroemmich-final-sql/edit?project=keijir...

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Search

1

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K

SQL

Databases

PRIMARY INSTANCE

Overview

System insights

Query insights

Connections

Users

Databases

Backups

Replicas

Operations

All instances > csi4160-keijiroemmich-final-sql

csi4160-keijiroemmich-final-sql

PostgreSQL 14

CREATE DATABASE

Name	Collation	Character set
csi4160-final-db	en_US.UTF8	UTF8
postgres	en_US.UTF8	UTF8

Database created

Uploads and Keijiroemmich-CSi4160-... operations

Created csi4160-keijiroemmich-final-sql12:51:46 AM GMT+4

CLOUD SHELL

Terminal

(keijiroemmich-csi4160-w2023)

+ -

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to keijiroemmich-csi4160-w2023.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
csi4160keijiroemmich@cloudshell:~ (keijiroemmich-csi4160-w2023)\$ gcloud sql connect csi4160-keijiroemmich-final-sql --user=postgres --quiet
Allowlisting your IP for incoming connection for 5 minutes...done.
Connecting to database with SQL user [postgres].Password:
psql (15.2 (Debian 15.2-1.pgdg110+1), server 14.5)
SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression: off)
Type "help" for help.

postgres=>

CLOUD SHELL

Terminal

(keijiroemmich-csi4160-w2023)

+ -

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to keijiroemmich-csi4160-w2023.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
csi4160keijiroemmich@cloudshell:~ (keijiroemmich-csi4160-w2023)\$ gcloud sql connect csi4160-keijiroemmich-final-sql --user=postgres --quiet
Allowlisting your IP for incoming connection for 5 minutes...done.
Connecting to database with SQL user [postgres].Password:
psql (15.2 (Debian 15.2-1.pgdg110+1), server 14.5)
SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression: off)
Type "help" for help.

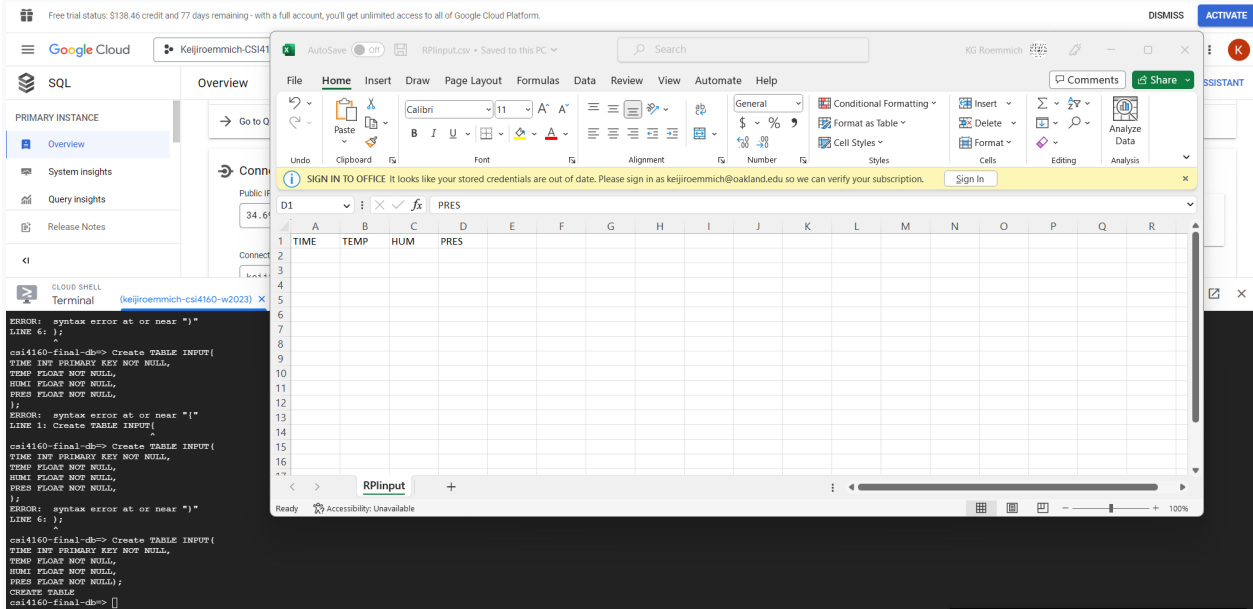
postgres=> \list

Name	Owner	Encoding	Collate	Ctype	ICU Locale	Locale Provider	Access privileges
cloudsqladmin	cloudsqladmin	UTF8	en_US.UTF8	en_US.UTF8		libc	
csi4160-final-db	cloudsqlsuperuser	UTF8	en_US.UTF8	en_US.UTF8		libc	
postgres	cloudsqlsuperuser	UTF8	en_US.UTF8	en_US.UTF8		libc	
template0	cloudsqladmin	UTF8	en_US.UTF8	en_US.UTF8		libc	=c/cloudsqladmin +
template1	cloudsqlsuperuser	UTF8	en_US.UTF8	en_US.UTF8		libc	=c/cloudsqlsuperuser +

(5 rows)

postgres=>

csi4160-final-db=> Create TABLE INPUT(
TIME INT PRIMARY KEY NOT NULL,
TEMP FLOAT NOT NULL,
HUMI FLOAT NOT NULL,
PRES FLOAT NOT NULL);
CREATE TABLE
csi4160-final-db=>



Use your IoT device

