

1. Output of `crontab -l`: Your scheduled cron jobs.

```
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
0 1 * * * /usr/bin/python3 /home/srilakp/data_gather.py
30 1 * * * /home/srilakp/myenv/bin/python3 /home/srilakp/publisher_project.py >> /home/srilakp/publisher_cron.log 2>&1
0 2 * * * /home/srilakp/myenv/bin/python3 /home/srilakp/subscriber_project.py >> /home/srilakp/subscriber_cron.log 2>&1
```

2. `systemctl status`: This will show the status of your receiver program.

```
(myenv) srilakp@instance-20250409-070924:~$ sudo systemctl start subscriber
(myenv) srilakp@instance-20250409-070924:~$ sudo systemctl status subscriber
● subscriber.service - Google Pub/Sub Subscriber Script
   Loaded: loaded (/etc/systemd/system/subscriber.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-04-17 19:38:06 PDT; 5s ago
 Main PID: 251521 (python3)
    Tasks: 15 (limit: 4682)
   Memory: 39.8M
      CPU: 2.150s
  CGroup: /system.slice/subscriber.service
          └─251521 /home/srilakp/myenv/bin/python3 /home/srilakp/subscriber_project.py

Apr 17 19:38:06 instance-20250409-070924 systemd[1]: Started subscriber.service - Google Pub/Sub Subscriber Script.
Apr 17 19:38:08 instance-20250409-070924 python3[251521]: Listening to projects/dataengineeringproject-456307/subscripti
(myenv) srilakp@instance-20250409-070924:~$
```

3. VM instance schedule: This will display the schedule settings for your GCP VM instance.

Instances schedules

Filter

Enter property name or value

| | Name ↑ | Region | Start schedule | Stop schedule | Time zone | Initiation date | Expiration date |
|--|-----------------------------------|----------|--------------------|-------------------|---------------------|-----------------|-----------------|
| | daily-vm-schedule | us-west1 | 12:15AM, every day | 3:00AM, every day | America/Los_Angeles | | |

← Instance schedule details

Delete

✓ daily-vm-schedule

Description

Daily VM start/stop for DataEng project

Region

us-west1

VM Start

12:15AM, every day

VM Stop

3:00AM, every day

Time zone

America/Los_Angeles

Initiation date

End date

| Date | Day of Week | Approximate Time of day for your data access | # Sensor Readings | Total Data Saved (KBs) | # Pub/Sub messages published and received |
|----------|-------------|--|-------------------|------------------------|---|
| 9th Apr | Wednesday | 1 AM | 235571 | 73400 | 235570 |
| 10th Apr | Thursday | 1 AM | 285960 | 79800 | 285960 |
| 11th Apr | Friday | 1 AM | 320505 | 86900 | 320505 |
| 14th Apr | Monday | 1 AM | 310035 | 85400 | 310035 |
| 15th Apr | Tuesday | 1 AM | 310250 | 60700 | 310250 |
| 16th Apr | Wednesday | 1 AM | 330365 | 72600 | 330365 |
| 17th Apr | Thursday | 1 AM | 329324 | 84800 | 329324 |
| 18th Apr | Friday | 1 AM | 287520 | 96200 | 387520 |
| 19th Apr | Saturday | 1 AM | 371102 | 104000 | 371102 |
| 20th Apr | Sunday | 1 AM | 378902 | 114200 | 378902 |

I had problem collecting the data for the first 2 days (7th and 8th Apr)