

You're working in **IoT-Data-Logger**

Project number: 874895479013 Project ID: iot-data-logger-455504

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Service Account with Editor access and enabled Sheets and Drive API keys

[←](#) iot-data-logger

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Resources this service account can access

You can use Policy Analyzer to view which resources this service account has access to.

[View Access](#)

Principals with access to this service account

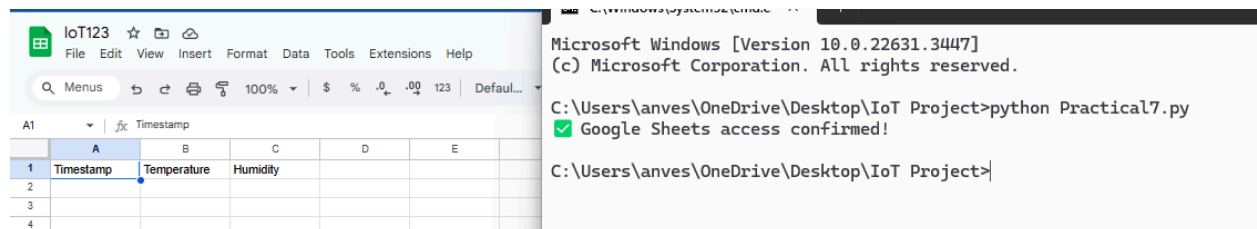
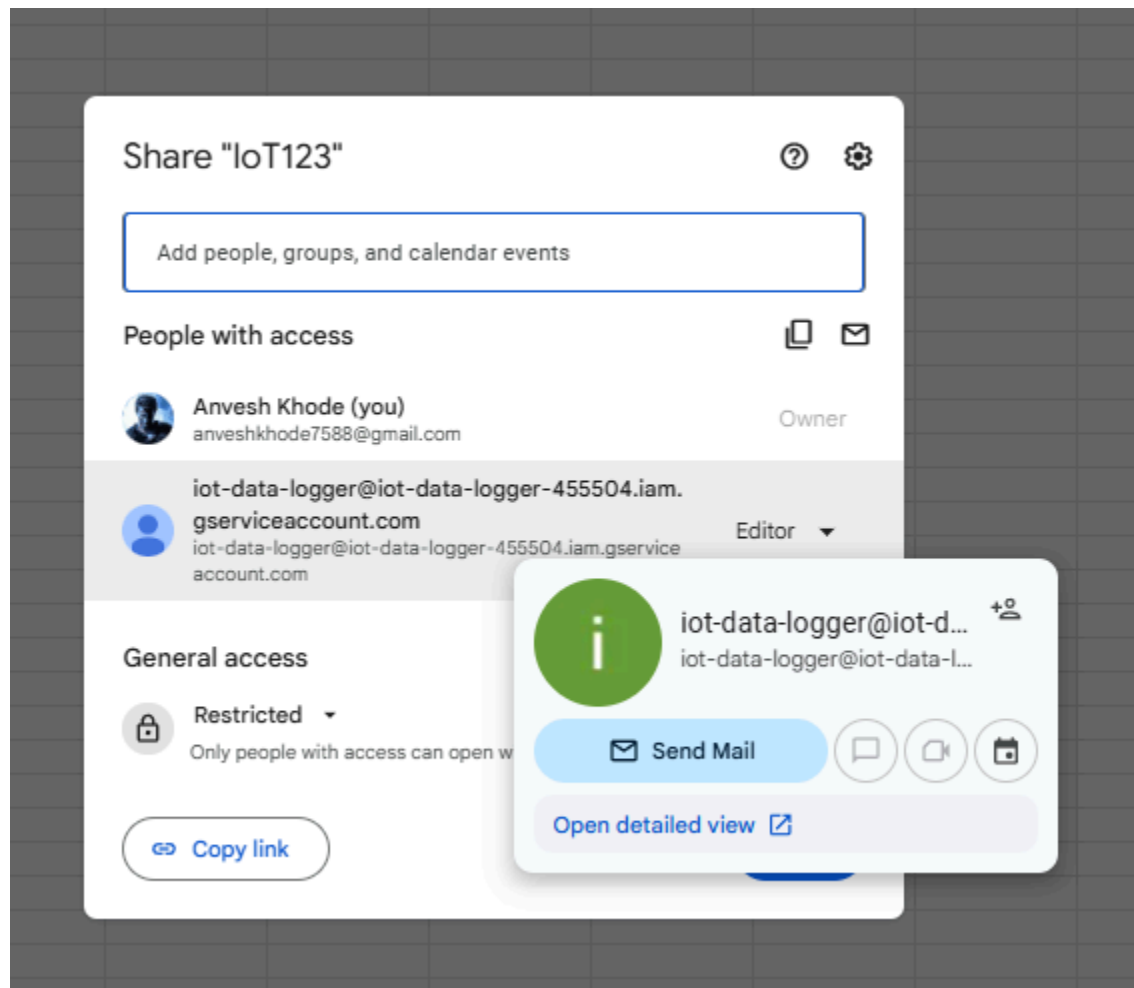
You can allow specific users to have ownership and access to service accounts and their settings. Users with the Owner or Editor basic role on the project can already modify service accounts, but you might want to restrict access for some users so that they can take only specific actions against service account resources. [Learn how to grant users access to service accounts](#)

[View by principals](#) [View by roles](#)

[+ Grant access](#) [- Remove access](#)

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Type	Principal ↑	Name	Role	Inheritance
<input type="checkbox"/>	anveshkhode7588@gmail.com	Anvesh Khode	Owner	IoT-Data-Logger
<input checked="" type="checkbox"/>	iot-data-logger@iot-data-logger-455504.iam.gserviceaccount.com	iot-data-logger	Editor	IoT-Data-Logger



```
File Edit Selection View Go Run Terminal Help
iot-data-logger-455504-88f91b725dd3.json Practical7.py 2 x

C: > Users > anves > OneDrive > Desktop > IoT Project > Practical7.py > ...

1 import gspread
2 from google.oauth2.service_account import Credentials
3 import random
4 import time
5 from datetime import datetime
6
7 scope = ["https://www.googleapis.com/auth/spreadsheets", "https://www.googleapis.com/auth/drive"]
8 creds = Credentials.from_service_account_file("../iot-data-logger-455504-88f91b725dd3.json", scopes=scope)
9 client = gspread.authorize(creds)
10
11 SHEET_ID = "1j5oDTNN7iMdsdLtnBjN8UH1e3-RfuOYtdNWHexgdKNI"
12 sheet = client.open_by_key(SHEET_ID).sheet1
13
14
15 def get_dht11_data():
16     # DHT11 realistic range
17     temperature = round(random.uniform(20.0, 35.0), 1)
18     humidity = round(random.uniform(30.0, 90.0), 1)
19     timestamp = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
20     return timestamp, temperature, humidity
21
22 # Simulate reading every 5 seconds
23 print("✅ Google Sheets access confirmed!")
24 while True:
25     ts, temp, hum = get_dht11_data()
26     print(f"[{ts}] 🌡 Temp: {temp}°C | 💧 Humidity: {hum}%")
27     time.sleep(5)
28
```

IoT123

Timestamp	Temperature	Humidity
2025-04-08 22:48:11	22	73.1
2025-04-08 22:48:16	20.7	74.6
2025-04-08 22:48:22	26.7	33.5
2025-04-08 22:48:27	29.6	64
2025-04-08 22:48:33	21.7	43.7
2025-04-08 22:48:38	21.1	76.5
2025-04-08 22:48:44	25.7	71.6
2025-04-08 22:48:49	25.3	81.4
2025-04-08 22:48:54	24.1	49.3

```
C:\Windows\System32\cmd.exe
), "2025-04-08 22:46:50"
Invalid value at 'insert_data_option' (type.googleapis.com/google.apps.sheets.v4.InsertDataOption), "61.0"
Invalid value at 'value_input_option' (type.googleapis.com/google.apps.sheets.v4.ValueInputOption), "26.8"

C:\Users\anves\OneDrive\Desktop\IoT Project>python Practical7.py
✅ Google Sheets access confirmed!
[2025-04-08 22:48:11] 🌡 Temp: 22.0°C | 💧 Humidity: 73.1%
[2025-04-08 22:48:16] 🌡 Temp: 20.7°C | 💧 Humidity: 74.6%
[2025-04-08 22:48:22] 🌡 Temp: 26.7°C | 💧 Humidity: 33.5%
[2025-04-08 22:48:27] 🌡 Temp: 29.6°C | 💧 Humidity: 64.0%
[2025-04-08 22:48:33] 🌡 Temp: 21.7°C | 💧 Humidity: 43.7%
[2025-04-08 22:48:38] 🌡 Temp: 21.1°C | 💧 Humidity: 76.5%
[2025-04-08 22:48:44] 🌡 Temp: 25.7°C | 💧 Humidity: 71.6%
[2025-04-08 22:48:49] 🌡 Temp: 25.3°C | 💧 Humidity: 81.4%
[2025-04-08 22:48:54] 🌡 Temp: 24.1°C | 💧 Humidity: 49.3%
```