

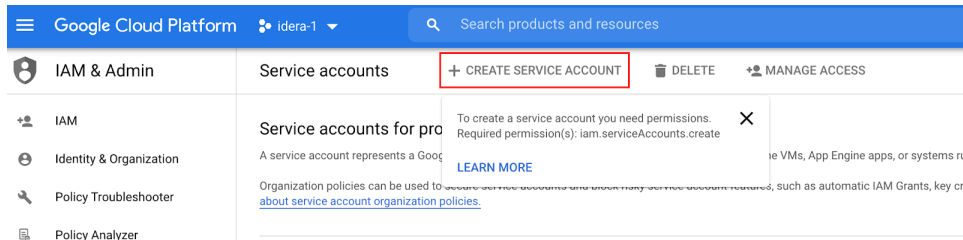
Google Cloud SQL Monitoring

For Google Cloud Monitoring you need the following prerequisites:

1. to create a service account in your Google Cloud account and download the content of the JSON file

To generate service-account credentials and view the public credentials already created, follow these steps:

- Open the [Service accounts page](#). When prompted, select a project.
- Click **CREATE SERVICE ACCOUNT**.



- In the **CREATE SERVICE ACCOUNT** window, type a name for the service account, and select **Furnish** a new private key. Click **Create**.
- When you create a key, your new public/private key pair is generated and downloaded to your machine.

2. To configure access to your Cloud SQL instance

Go to the [Cloud SQL Instances page](#) in the **Google Cloud Console**.

- From the client machine, use [What's my IP](#) to see the IP address of the client machine.
- Copy that IP address.
- Go to the [Cloud SQL Instances page](#) in the **Google Cloud Console**.
- Open the instance **Overview** page, and record the IP address.
- Select the **Connections** tab.
- Under **Authorized networks**, click **Add Network** and enter the IP address of the client machine.



The IP address of the instance and the MySQL client IP address you authorize must be the same IP version: either IPv4 or IPv6.

- Click **Done** and then **Save** at the bottom of the page to save your changes.

Adding your Google Cloud Server

To add your **Google Cloud Server** to SQL DM for MySQL, you need to follow these steps:

1. Provide the Host IP, MySQL Username, and Password to register your Google cloud SQL server in SQL DM for MySQL.

GCS

CONFIG **TAGS** **NOTIFICATIONS** **ADVANCED**

MYSQL HOST

35.222.174.100

MYSQL PORT

3306

USERNAME

root

PASSWORD

.....

CONNECTION TYPE

Direct

▼

TEST

SAVE

2. Enable **System Monitoring** and enter the instance name with the content of the private key JSON file. Go to Edit Server > Advanced > System Metrics.

GCS

CONFIGTAGSNOTIFICATIONSADVANCED

System Metrics

Data Collection

Replication

Galera

MySQL Error Log

MySQL Query Log

Audit Log

Sniffer

Deadlock

Monitors

Real-Time

Connection Settings

Enable System Metrics

Enter Google Cloud SQL credentials for OS monitoring

INSTANCE CONNECTION NAME

PRIVATE KEY FILE CONTENT

```
{
  "type": "service_account",
  "project_id": "idera-1",
  "private_key_id": "5c4cda7441242a4d1b006b1b5002e1888a18",
  "private_key": "-----BEGIN PRIVATE KEY-----
\nMIIEvglBADANBgqhkiG9w0BAQEFAASCBCgwggSkAgEAAoIBA
QCOEa8KXxKEzYYa\nZDtVnegK7xq/rOvwYaYoTq33C5XmIby4UVN
hD=AAQ1G-MQ=Q-1\nid7Y4XGQ=Q15-Q1QVMQ=7ZDRXDU45CQ=
-----END PRIVATE KEY-----"
}
```

TEST

SAVE

3. To enable **MySQL Error Log** monitoring, review the below screenshot:

GCS

CONFIGTAGSNOTIFICATIONSADVANCED

System Metrics
Data Collection
Replication
Galera
MySQL Error Log
MySQL Query Log
Audit Log
Sniffer
Deadlock
Monitors
Real-Time
Connection Settings

☒ Enable error log monitoring

READ FILE FROM
Google Cloud SQL (Usin...
ENTER Google Cloud SQL CREDENTIALS FOR LOG MONITORING
INSTANCE CONNECTION NAME

PRIVATE KEY FILE CONTENT

```
{  
  "type": "service_account",  
  "project_id": "idera-1",  
  "private_key_id": "664bdc1d41b2f62aadd5c0bcb463333491c33442",  
  "private_key": "-----BEGIN PRIVATE KEY-----  
\\nMIIIEvgIBADANBgkqhkiG9w0BAQEFAASCBCgwwgSkAgEAAoIBA  
QCOEa8KXxKEzYYa\\nZDtVnegK7xq/rOvwYaYoTq33C5XmIby4UVN  
hD-AQI...M2...Q...id7Y4YQ...Q...Q...M2...ZC...Y...A...C...  
-----END PRIVATE KEY-----"
```

TEST READING THE FILE

APPLY THE SETTING TO
Only this server

SAVE

4. To enable **MySQL Query Log** monitoring, review the below screenshot:

GCS

CONFIG

TAGS

NOTIFICATIONS

ADVANCED

System Metrics

Data Collection

Replication

Galera

MySQL Error Log

MySQL Query Log

Audit Log

Sniffer

Deadlock

Monitors

Real-Time

Connection Settings

Slow Query Log

Logging In: FILE / Long Query Time: 10

Log queries not using indexes: Off

General Query Log

Logging In: FILE

READ FILE FROM

Google Cloud SQL (Usin... ▾)

ENTER Google Cloud SQL CREDENTIALS FOR LOG MONITORING

INSTANCE CONNECTION NAME

PRIVATE KEY FILE CONTENT

```
{
  "type": "service_account",
  "project_id": "idera-1",
  "private_key_id": "6c1b2d4f1a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2g3h4i5j6k7l8m9n0o1p2q3r4s5t6u7v8w9x0y1z2a3b4c5d6e7f8g9h0i1j2k3l4m5n6o7p8q9r0s1t2u3v4w5x6y7z8a9b0c1d2e3f4g5h6i7j8k9l0m1n2o3p4q5r6s7t8u9v0w1x2y3z4a5b6c7d8e9f0g1h2i3j4k5l6m7n8o9p0q1r2s3t4u5v6w7x8y9z0a1b2c3d4e5f6g7h8i9j0k1l2m3n4o5p6q7r8s9t0u1v2w3x4y5z6a7b8c9d0e1f2
```

5. To enable **GCS Objects**, go to the **Monitors** page, click “+” near Monitors, and select **Manage Google Cloud SQL Objects**.

6. You can enable the below Monitors to monitor the **Google Cloud SQL Metrics**:

- database/cpu/utilization
- database/memory/utilization
- database/disk/utilization
- database/disk/read_ops_count
- database/disk/write_ops_count

SQL DM

MONITORS

Master, RDS new, RDS-Dev +1

TIMEFRAME
History

May 01 2019 00:00 - May 27

Servers

Dashboard

Monitors

Threads

Real Time

Query Analyzer

Audit Log

Server Config

Replication

Settings

Commands & Schema Changes

Linux

Disk Info

Worst Indexes

MySQL Cluster

Currently Connected Users

Perccona

Galera

TokuDB - Metrics

TokuDB - Settings

TokuDB - I/O

sys schema

Performance Schema Events

Plugins

Aria

RDS/Aurora Instance Metrics

Google Cloud SQL Metrics

Blocked sessions

MONITORS

CPU Utilization

Memory Utilization

Disk Utilization

Read Operations Count

Write Operations Count