

# Federator.ai - Google Cloud Service Account Setup Guide

- [Create a Google Cloud Service Account](#)
- [Add GCP Clusters to Federator.ai](#)

ProphetStor [Federator.ai](#) uses Google Cloud Service Accounts to obtain credentials for accessing Google Cloud APIs. You need to create a service account to provide Federator.ai with service account credentials to use Google Cloud APIs to collect metrics, tags, machine configurations, and metadata of Google Cloud Platform instances and instance groups.

Using service accounts to provide credentials for accessing Google Cloud APIs is one of the recommended methods by Google Cloud. For more details, please refer to the attached service account document.

## Create a Google Cloud Service Account

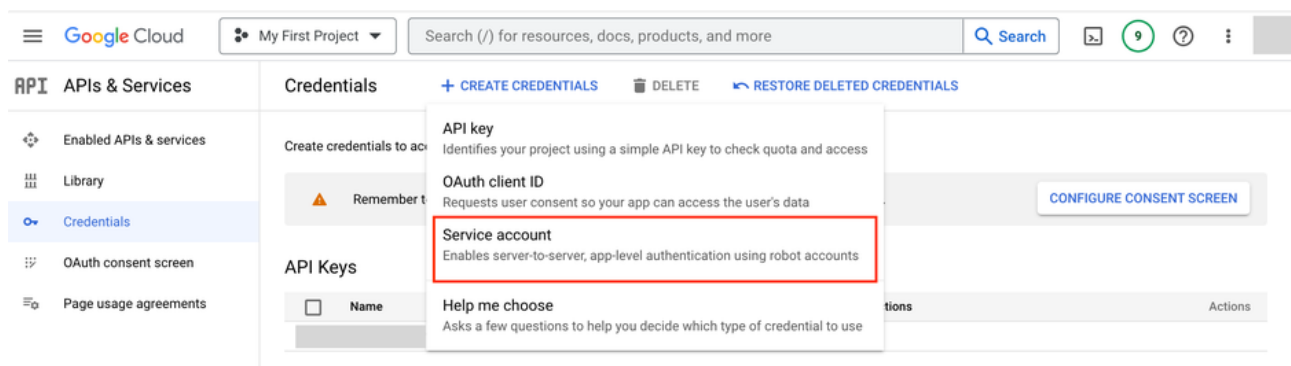
**i** You have to enable the [Cloud Monitoring API](#), the [Compute Engine API](#), and the [VM Manager \(OS Config API\)](#) of Google Cloud for the projects which you would like to integrate with Federator.ai.

For the API pricing details, please refer to the [Cloud Monitoring API](#), the [Compute Engine API](#), and the [VM Manager \(OS Config API\)](#) documents of Google Cloud.

1. Go to the [Google Cloud credentials page](#) and choose a project where you would like to integrate with Federator.ai.
2. Click **CREATE CREDENTIALS** and choose **Service account**.

**Note:** You need to have the following roles and permissions to create service accounts and service account keys, and assign the required roles to service accounts.

- a. [Service Account Admin](#) role to create and manage service accounts.
- b. [Service Account Key Admin](#) role to create and manage service account keys.
- c. [Project IAM Admin](#) role to assign roles to service accounts.



3. Name the service account `federatorai-integration` or one of your own choosing and click **CREATE AND CONTINUE**.

Google Cloud | My First Project | Search (/) for resources, docs, products, and more | Search | 9 | ? | :

IAM & Admin | Create service account | HELP ASSISTANT

**1 Service account details**

Service account name: federatorai-integration  
Display name for this service account

Service account ID \*: federatorai-integration  
Email address: federatorai-integration@

Service account description: Service account for Federator.ai integration  
Describe what this service account will do

CREATE AND CONTINUE

**2 Grant this service account access to project (optional)**

**3 Grant users access to this service account (optional)**

DONE CANCEL

4. Add `Compute Viewer`, `Monitoring Viewer`, and `OS Inventory Viewer` roles to the service account and click `DONE`. `Compute Viewer`, `Monitoring Viewer`, and `OS Inventory Viewer` roles of the service account allow Federator.ai to collect metrics, tags, machine configurations, and metadata from Google Cloud Platform instance and instance groups.

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IAM & Admin | Create service account | HELP ASSISTANT

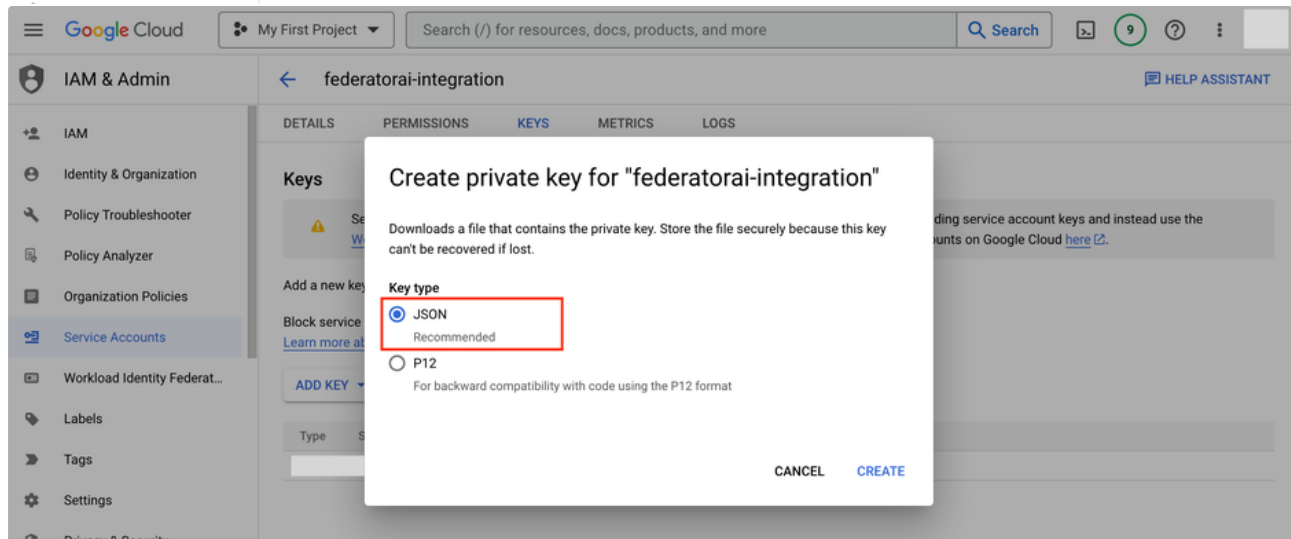
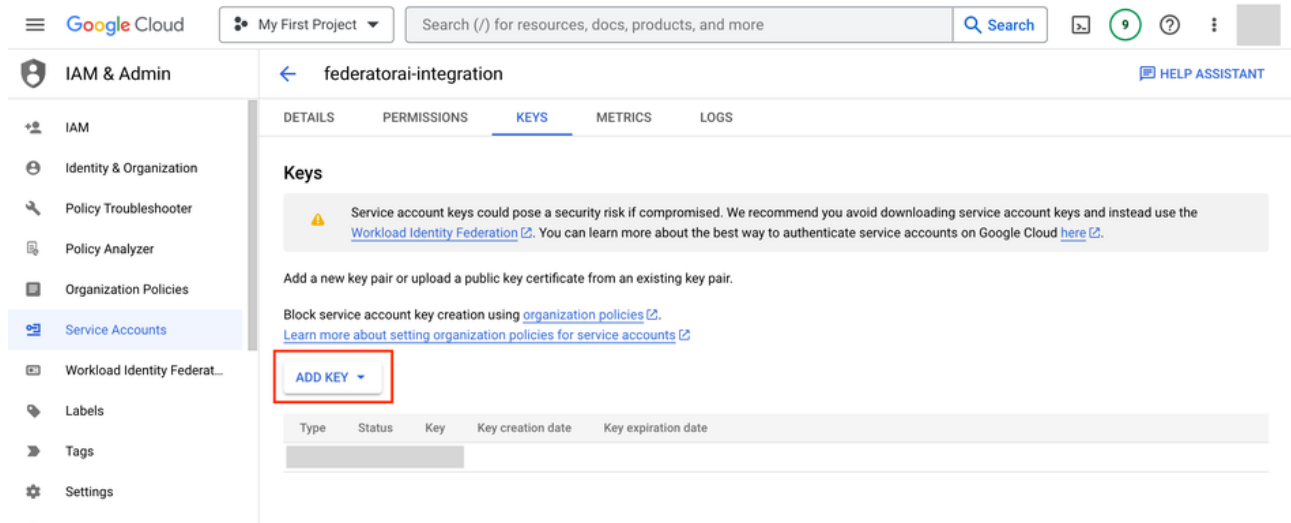
**Service account details**

**2 Grant this service account access to project (optional)**

Grant this service account access to My First Project so that it has permission to complete specific actions on the resources in your project. [Learn more](#)

Role	IAM condition (optional)
Compute Viewer Read-only access to get and list information about all Compute Engine resources, including instances, disks, and firewalls. Allows getting and listing information about disks, images, and snapshots, but does not allow reading the data stored on them.	+ ADD IAM CONDITION
Monitoring Viewer Read-only access to get and list information about all monitoring data and configuration.	+ ADD IAM CONDITION
OS Inventory Viewer Viewer of OS Inventories	+ ADD IAM CONDITION

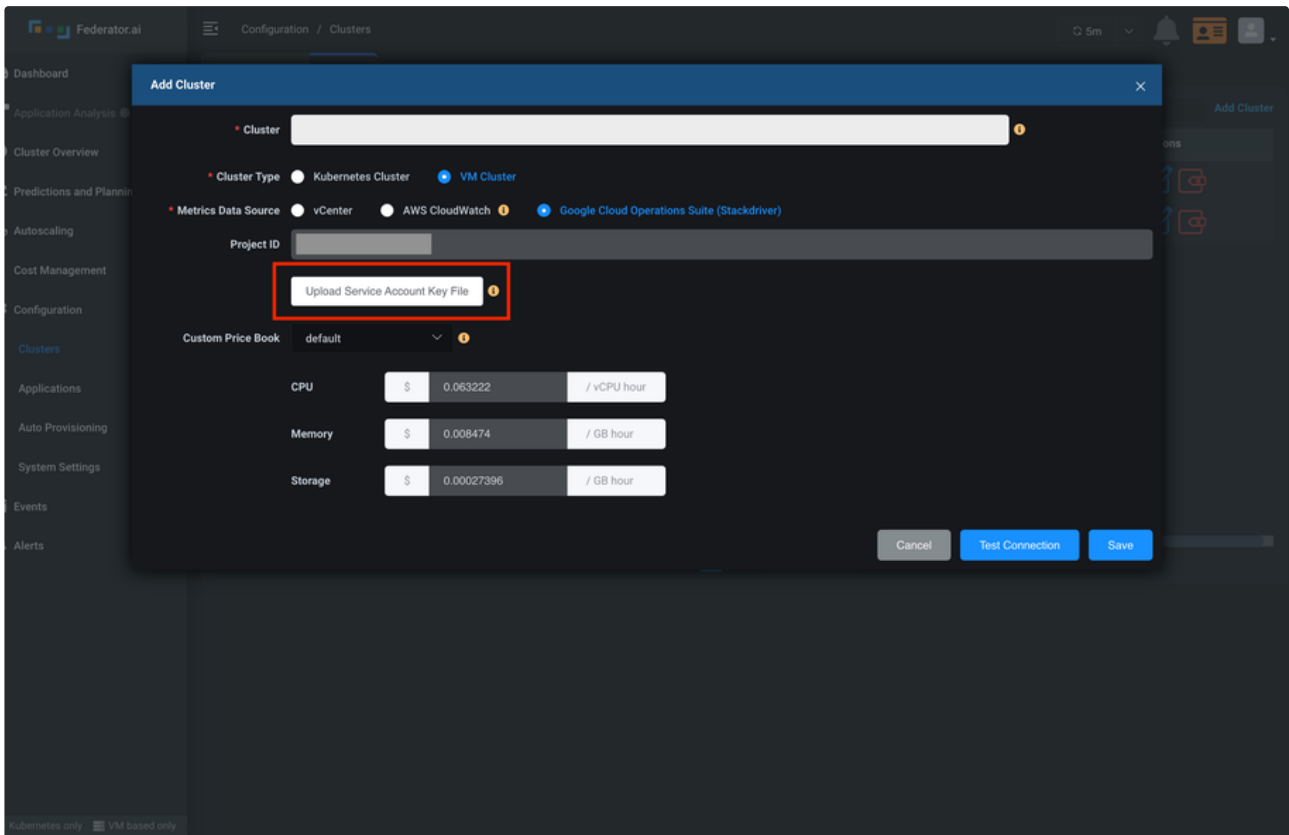
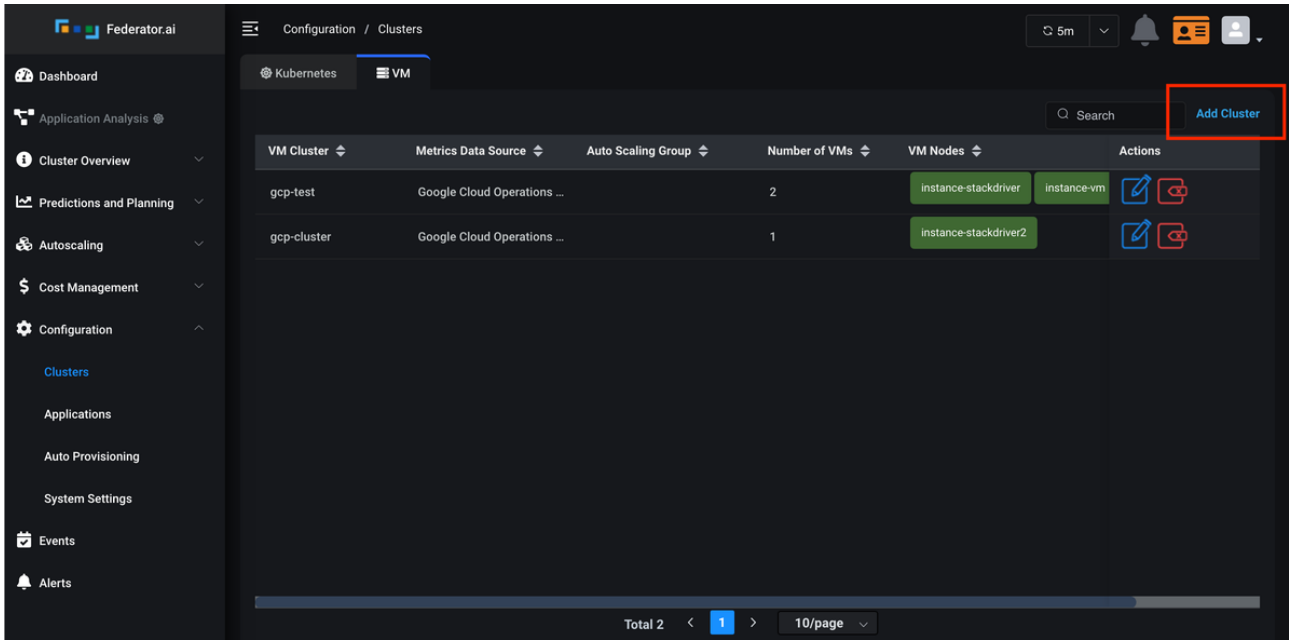
5. Create a new key for the service account. Select the service account you just created. Choose `KEYS` tab and click `ADD KEY`. Select `Create new key` and choose `JSON` as the key type. Download your service account key file and you will use the service account key file to configure Federator.ai later.



## Add GCP Clusters to Federator.ai

6. Go to Federator.ai **Clusters** page. Click **Add Cluster** and Choose **Google Cloud Operations Suite (Stackdriver)** as Metrics Data Source.

Click **Upload Service Account Key File** button to upload the service account key file which you just downloaded.



7. Add GCP instances to a GCP cluster.

Federator.ai Configuration / Clusters 5m

### Edit Cluster

Cluster: gcp-test

Cluster Type:  Kubernetes Cluster  VM Cluster

Metrics Data Source:  vCenter  AWS CloudWatch  Google Cloud Operations Suite (Stackdriver)

Project ID: [Input Field]

Upload Service Account Key File

Non-Members 0/1  Members 0/2

Search by name or UID

- 1089192173113525200 - TERMINATED

Add > Remove <

Search by name or UID

- 3229553094594479000 - RUNNING
- 4913409789088844000 - RUNNING

Custom Price Book: default

CPU	\$ 0.053222	/ vCPU hour
Memory	\$ 0.008474	/ GB hour
Storage	\$ 0.00027396	/ GB hour

Cancel Test Connection Save

Kubernetes only VM based only