



# ArcSight SmartConnectors

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## Configuration Guide for Google Cloud Platform SmartConnector

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# Configuration Guide for Google Cloud Platform SmartConnector

This guide provides information about Google Cloud Connector that collects events from Google Cloud Platform.

This guide provides a high level overview of ArcSight SmartConnectors for the Cloud.

## Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight software and its environment.

## Additional Documentation

The ArcSight SmartConnector documentation library includes the following resources:

- [Technical Requirements Guide for SmartConnector](#), which provides information about operating system, appliance, browser, and other support details for SmartConnector.
- [Installation and User Guide for SmartConnectors](#), which provides detailed information about installing SmartConnectors.
- [Configuration Guides for ArcSight SmartConnectors](#), which provides information about configuring SmartConnectors to collect events from different sources.
- [Configuration Guide for SmartConnector Load Balancer](#), which provides detailed information about installing Load Balancer.

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the [documentation site for ArcSight SmartConnectors 8.4](#).

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## Product Overview

Google Cloud Platform is a suite of public cloud computing services offered by Google. The platform includes a range of hosted services for compute, storage and application development

that run on Google hardware. Google Cloud Platform services can be accessed by software developers, cloud administrators, and other enterprises IT professionals over the public internet or through a dedicated network connection.

The following services are currently supported by the SmartConnector for Google Cloud:

- **Pub/Sub** is an asynchronous messaging service that decouples services that produce events from services that process events.

You can use Pub/Sub as messaging-oriented middleware or event ingestion and delivery for streaming analytics pipelines.

Pub/Sub offers durable message storage and real-time message delivery with high availability and consistent performance at scale. Pub/Sub servers run in all Google Cloud regions around the world.

- **IAM** lets you grant granular access to specific Google Cloud resources and helps prevent access to other resources. IAM enables you to adopt the least privileged security principle, stating that nobody should have more permissions than needed.
- **Security Command Center Premium** offers comprehensive threat detection for Google Cloud that includes Event Threat Detection, Container Threat Detection, and Virtual Machine Threat Detection as built-in services.

The following log findings are supported by GSCC:

- API key vulnerability findings
- Compute image vulnerability findings
- Compute instance vulnerability findings
- Container vulnerability findings
- Dataset vulnerability findings
- DNS vulnerability findings
- Firewall vulnerability findings
- IAM vulnerability findings
- KMS vulnerability findings
- Monitoring vulnerability findings
- Multi-factor authentication findings
- Network vulnerability findings
- Pub/Sub vulnerability findings
- SQL vulnerability findings
- Storage vulnerability findings
- Subnetwork vulnerability findings
- VM Manager findings

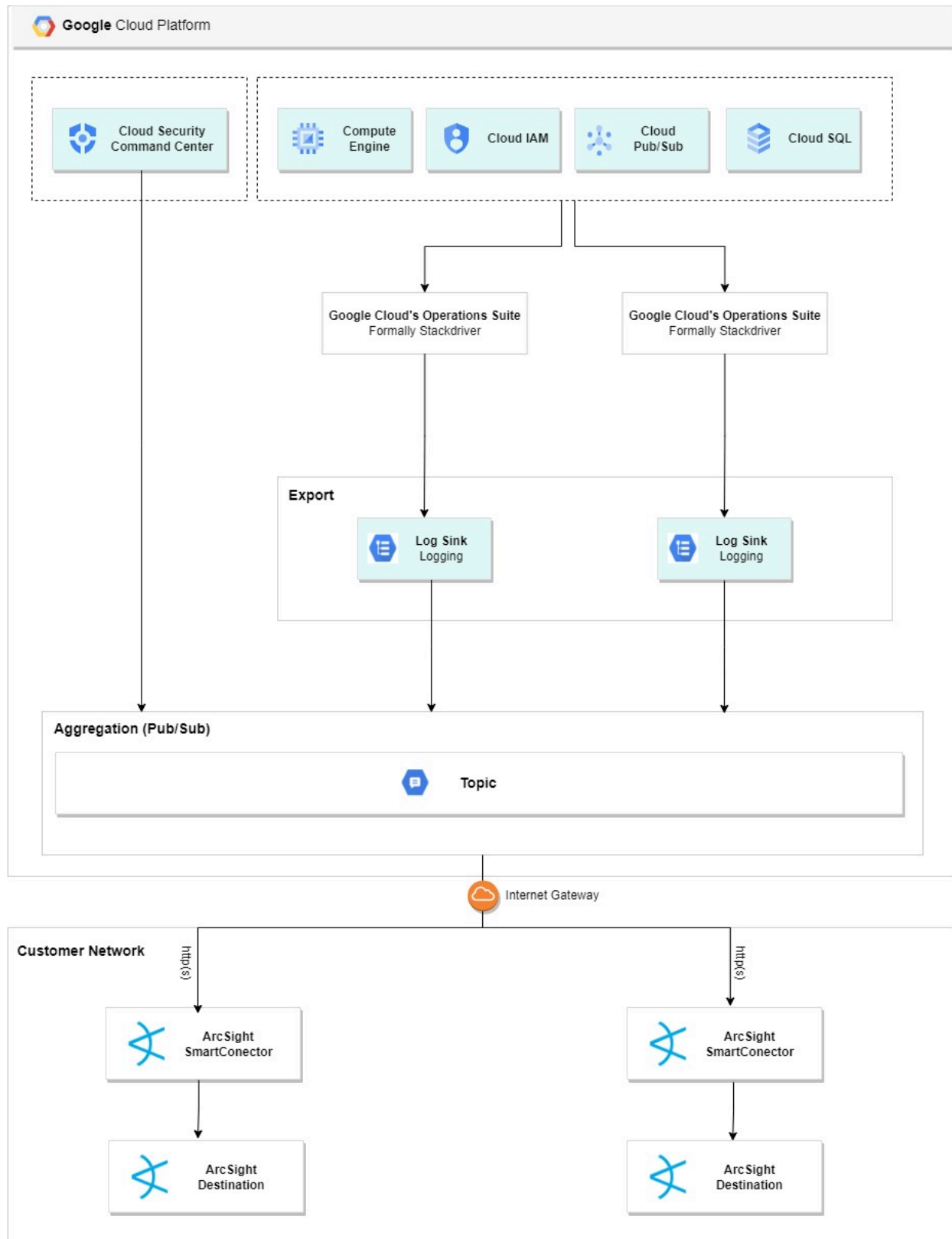
- Web Security Scanner findings
- Event Threat Detection rules



Note: Some Google Cloud event logs with common event fields might be supported by the connector.

# Understanding Data Collection

The following diagram provides a high-level overview of how the ArcSight SmartConnector for Google Cloud collects the Google Cloud Platform events.





## Preparing to Collect Data

Before you can configure services to stream logs, make sure that you have the following prerequisite requirements:

- [Google Cloud Platform Permissions](#)
- [Service Account Key](#)

## Google Cloud Platform Permissions

| Role   | Permissions   | Description  |
|--|---|--|
| Create Custom Role<br>For example: ArcSight_<br>CustomRole | <ul style="list-style-type: none"><li>• pubsub.subscriptions.consume</li><li>• pubsub.subscriptions.get</li><li>• pubsub.topics.get</li></ul> | These are the minimum roles required to retrieve the events. |



**Note:** While creating the Service Account under **Grant this service account access to project** section, click **Select Role** drop down menu, select the **Custom Role** created above and continue with the installation.

## Creating a Service Account Key

A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps, or systems running outside Google.

**To create a new service account:**

1. Go to **IAM & Admin > Service Accounts**.
2. Click **Create Service Account**.
3. Enter the **Service Account Details** and click **Done**.  
The account is successfully created.
4. Click **Actions > Create Key**.
5. Choose **JSON** as the export option and click **Create**.

The service key file is downloaded, and you will use it to access cloud resources.

| Enabled                             | Type                 | Name      | Description | Destination   |
|-------------------------------------|----------------------|-----------|-------------|---|
| <input checked="" type="checkbox"/> | Cloud Logging bucket | _Default  |             | logging.googleapis.com/projects/angular-amp-304215/locations/global/buckets/_Default  |
| <input checked="" type="checkbox"/> | Cloud Logging bucket | _Required |             | logging.googleapis.com/projects/angular-amp-304215/locations/global/buckets/_Required |

## Configuring Log Retrieval

### Creating a Topic

1. Go to the **Pub/Sub** resource.
2. Click **Topics**.
3. Click **Create Topic**.
4. Specify a unique topic ID, then click **Create Topic**.

The topic and its subscription is successfully created.

### Creating a Log Router

1. Go to **Operations > Logging > Log Router**.
2. Click **Create Sink**.
3. Enter the sink name and a description.
4. Choose the sink destination.
  - a. Select the **Cloud Pub/Sub** topic as your sink service.
  - b. Select the topic previously created.
5. Write a valid log query to filter out the events that are redirected to the topic.
6. If you want to create an exclusion filter, click **Create Sink** and the newly generated log is routed to the topic.

### Creating a Log Router for SCC

1. Go to **Security Command Center**.
2. Click **Findings**.
3. Click **Export > Cloud Pub/Sub**.

4. Select your **Organization**.
5. Create a continuous export.
  - a. Enter a unique name.
  - b. Select Project name.
  - c. Select the **Pub/Sub** topic that was created previously.
6. Save and exit.
7. Click the **Security Command Center Home** tab.
8. Click **Settings > Integrated Services**, then ensure that **Security Command Center** is Enabled.

## Creating a Log Router for Topics Located in a Different Project

1. Go to **Operations > Logging > Log Router**.
2. Click **Create Sink**.
3. Enter the sink name and a description.
4. Choose the sink destination.
  - a. Select a fully qualified topic name.
  - b. Prepend **pubsub.googleapis.com** to it.

The format is

```
pubsub.googleapis.com/projects/PROJECT_NAME/topics/TOPIC_NAME
```

for example

```
pubsub.googleapis.com/projects/angular-amp-304215/topics/ArcSight-Topic
```
5. Write a valid log query to filter out the events that are redirected to the topic.
6. If you want to create an exclusion filter, click **Create Sink** and the newly generated log is routed to the topic.

## Installing the Connector

### Preparing to Install the Connector

Before you install any SmartConnectors, make sure that the OpenText ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger).

For complete product information, refer to the *Administrator's Guide to ArcSight Platform*, available on [ArcSight Documentation](#).

If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* available on [ArcSight Documentation](#) for instructions.

1. Before installing the SmartConnector, make sure that the following are available:
  - Local access to the machine where the SmartConnector is to be installed
  - Administrator passwords

## Installing the Connector

1. Start the installation wizard.
2. Follow the instructions in the wizard to install the core software.
3. Specify the relevant [Global Parameters](#), when prompted.
4. Select **Google Cloud** from the **Type** drop-down list, then click **Next**
5. Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.

| Parameter                  | Details   |
|----------------------------|---|
| Proxy Host                 | Enter the proxy host IP address or name.        |
| Proxy Port (Optional)      | The proxy port used to access the Internet.     |
| Proxy User Name (Optional) | The proxy user used to access the Internet.     |
| Proxy Password (Optional)  | The proxy password used to access the Internet. |
| Service Account File Path  | Service account file path                       |
| Subscription Name          | PubSub topic subscription name                  |

6. Select a [destination and configure parameters](#).
7. Specify a name for the connector.
8. (Conditional) If you have selected **ArcSight Manager** as the destination, the certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination**, and then click **Next**. The certificate is imported and the **Add connector Summary** window is displayed.



**Note:** If you select Do not import the certificate to connector from destination, the connector installation will end.

9. Select whether you want to install the connector as a service or in the standalone mode.

10. Complete the installation.

11. [Run the SmartConnector](#).

For instructions about upgrading the connector or modifying parameters, see [Installation and User Guide for SmartConnector](#).

## Device Event Mapping to ArcSight Fields

### Mappings for Pub/Sub and IAM

| ArcSight ESM Field         | Device-Specific Field  |
|----------------------------|--|
| Device Product             | protoPayload/serviceName   |
| Device Vendor              | Google Cloud   |
| device Receipt Time        | timestamp  |
| Device Event Class Id      | Last word of the (protoPayload/methodName) + " " + (success failure) |
| Name                       | protoPayload/methodName  |
| Device Severity            | severity   |
| Device Custom String 1     | resource/labels/project_id   |
| Device Custom String 2     | protoPayload/resourceName  |
| Source User Name           | protoPayload/authenticationInfo/principalEmail                       |
| Device Custom String 4     | protoPayload/authenticationInfo/principalSubject                     |
| Device Custom String 5     | protoPayload/request/messageRetentionDuration                        |
| Device Custom Date 1       | protoPayload/requestMetadata/requestAttributes/time                  |
| Device Custom Date 2       | receiveTimestamp   |
| Device Custom Number 1     | protoPayload/request/ackDeadlineSeconds                              |
| Source Address             | protoPayload/requestMetadata/callerIp                                |
| Request Method             | protoPayload/methodName  |
| Request Client Application | protoPayload/requestMetadata/callerSuppliedUserAgent                 |
| Source Service Name        | protoPayload/serviceName   |

| ArcSight ESM Field | Device-Specific Field                                     |
|--------------------|---|
| Message            | protoPayload/request/role/description                     |
| File Permission    | protoPayload/serviceData/permissionDelta/addedPermissions |
| File Id            | protoPayload/request/role_id                              |

## Mappings for Security Command Center

| ArcSight Field               | Vendor Field   |
|------------------------------|--|
| Event Device Product         | Security Command Center  |
| Event Device Vendor          | Google Cloud   |
| Event Device Event Class ID  | category   |
| Event Name                   | category   |
| Event Device Severity        | severity_gsc   |
| Event Device Receipt Time    | eventTime  |
| Event Device Custom Date 1   | createTime   |
| Event Device Custom String 1 | ScannerName  |
| Event Device Custom String 2 | mitreAttack  |
| Event Device Custom String 3 | VulnerableNodePools  |
| Event Device Custom String 4 | OpenPorts/ExternallyAccessibleProtocolsAndPorts/remote_port_list |
| Event Device Custom String 5 | role_member  |
| Event Device Custom String 6 | ep_string  |
| Event Old File ID            | OffendingIamRoles  |
| Event Source Address         | callerIp_gsc/Reverse_Shell_Stdin_Redirection_Src_Ip/vm_ips       |
| Event Source User Name       | principalEmail_gsc   |
| Event Request Method         | httpMethod   |
| Event Message                | Explanation/description_gsc                                      |
| Event Device Dns Domain      | canonicalName  |
| Event Device Event Category  | findingClass   |
| Event File Path              | name   |
| Event File Type              | type   |
| Event Old File Path          | ResourcePath   |

| ArcSight Field                 | Vendor Field  |
|--------------------------------|---|
| Event File Name                | VM_Instance_Name  |
| Event Destination Service Name | ExposedService  |
| Event Request URL              | fuzzedUrl   |
| Event Source Process Name      | methodName_gsc  |
| Event Destination Address      | Reverse_Shell_Stdin_Redirection_Dst_Ip/abuse_target_ips |
| Event Source Port              | Reverse_Shell_Stdin_Redirection_Src_Port                |
| Event Destination Port         | Reverse_Shell_Stdin_Redirection_Dst_Port                |

## Troubleshooting

The Google SmartConnector cannot authenticate token with Google API.

The following error is displayed when the connector is being used from ArcMc with the One-Click feature:

```
{ "error" : "invalid_grant", "error_description" : "Invalid JWT: Token must be a short-lived token (60 minutes) and in a reasonable timeframe. Check your iat and exp values in the JWT claim." }
```

Workaround:

The common cause is that the clock from which you are executing your task is not in sync with the NTP (Network Time Protocol). Match the connector time with the current time.

For more information, see [troubleshooting](#).

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(SmartConnectors 8.4.3)**

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