



# Security Command Center Evaluation Guide

## Security Command Center Overview

Security Command Center is a native security and risk management platform for Google Cloud. Security Command Center continuously monitors your Google Cloud environment and enables you to gain visibility into your cloud assets, discover vulnerabilities in your resources, detect threats targeting your assets, and help maintain compliance based on industry standards and benchmarks.



## Purpose

This guide walks through the key steps on how to setup and evaluate the core capabilities of Security Command Center Premium in your Google Cloud environment. For a complete set of product how-to-guides and API reference, please visit [Security Command Center documentation](#).

Google Cloud

For more information, visit [cloud.google.com/security-command-center](https://cloud.google.com/security-command-center)



## Step 0: Setup the Security Command Center Premium

- To setup Security Command Center, you need the following [Identity and Access Management \(IAM\) roles](#):
  - Organization Admin: roles/resourcemanager.organizationAdmin
  - Security Center Admin: roles/securitycenter.admin
  - Security Admin: roles/iam.securityAdmin
  - Create Service Accounts: roles/iam.serviceAccountCreator
- Select the Security Command Center [Premium tier](#).
- Go to [SETTINGS](#) and make sure you keep [the built-in services you want in Premium enabled](#).
- When you finish setup, Security Command Center starts an initial asset scan, after which you can use the dashboard to review, explore security findings, and take necessary action. You have the option to exclude resources by navigating to the [Advanced settings menu and changing resource settings](#).

Watch this [video for an overview of the Security Command Center](#)

### Services

Select the services that you want to be enabled by default in Security Command Center. You can change these defaults to limit the services to certain folders or projects using advanced settings. [Learn more about services](#)

There may be latency between initial activation of services and the availability of findings. [Learn more about latency](#)

**i** You are subscribed to Security Command Center Premium.

[VIEW PLAN](#)

#### Security Health Analytics

Identify common misconfigurations in your environment such as open firewalls and public buckets, and CIS violations.

[Learn more about Security Health Analytics](#)

Enabled by default

#### Web Security Scanner Premium

Uncover common vulnerabilities such as cross-site scripting (XSS) and outdated libraries, that put your web applications at risk.

[Learn more about Web Security Scanner](#)

Enabled by default

#### Event Threat Detection Premium

Automatically scan Stackdriver logs, including network logs and audit logs, for high-profile indicators of compromise.

[Learn more about Event Threat Detection](#)

Enabled by default

#### Container Threat Detection Premium

Use kernel-level instrumentation to identify potential compromise of containers, including suspicious binaries. [Learn more about Container Threat Detection](#)

Enabled by default

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## Step 1: Gain visibility through asset view

Discover and view your assets in near-real time across your Google Cloud resources and policies.

- Navigate to [ASSETS](#). Assets are your Google Cloud resources, like Compute Engine instances or Cloud Storage buckets, and policies.
- Discover your asset inventory across your organization. Review historical discovery scans to identify new, modified, or deleted assets.
- To receive real-time notifications about resource and policy changes, create and subscribe to a [feed](#).
- You can test asset discovery by creating a VM instance or a GCS bucket and check if these resources show up in the Assets dashboard of Security Command Center.

**Assets**  
Use Security Command Center's assets display to review your organization's Google Cloud resources.

View by **ASSET TYPE** PROJECT ASSETS CHANGED RE-SCAN EXPORT

Bucket

No assets selected SET SECURITY MARKS

Filter by attributes, properties and marks

Asset type ↑	Count	resourceProperties.name ↓	name	securityCenterProperties.resource
Address	10	<input type="checkbox"/>		
appengine.Service	42	<input type="checkbox"/>	zhanlu-caa-test-bucket	google.cloud.storage.Bucket
Application	34	<input type="checkbox"/>	yonidaniel-secops.appspot.com	google.cloud.storage.Bucket
Autoscaler	13	<input type="checkbox"/>	yarkoni-secops.appspot.com	google.cloud.storage.Bucket
BackendService	3	<input type="checkbox"/>	yanivw-secops.appspot.com	google.cloud.storage.Bucket
bigquery.Dataset	9	<input type="checkbox"/>	vzxy-test-bucket	google.cloud.storage.Bucket
BillingAccount	2	<input type="checkbox"/>	us.artifacts.yonidaniel-secops.appspot.com	google.cloud.storage.Bucket
<b>Bucket</b>	<b>199</b>	<input type="checkbox"/>	us.artifacts.yarkoni-secops.appspot.com	google.cloud.storage.Bucket
Cluster	14	<input type="checkbox"/>	us.artifacts.yanivw-secops.appspot.com	google.cloud.storage.Bucket
ClusterRole	1017	<input type="checkbox"/>	us.artifacts.ukatsir-secops.appspot.com	google.cloud.storage.Bucket
ClusterRoleBinding	890	<input type="checkbox"/>	us.artifacts.sendgrid-test-287103.appspot.com	google.cloud.storage.Bucket
compute.Instance	121	<input type="checkbox"/>		

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## Step 2: Discover vulnerabilities

Identify security misconfigurations and web application vulnerabilities in your Google Cloud assets and take action.

### a. Security Health Analytics built-in service discovers misconfigurations & vulnerabilities

- Navigate to **VULNERABILITIES** tab to display a list of findings for the project that you selected.
- To view these findings, use the **FINDINGS** tab. Click on **View by: Source Type**, and then select **Security Health Analytics**.
- Take action and remediate these vulnerability findings by following this [guide](#).

Watch this [video on getting started with Security Health Analytics](#)

### b. Web Security Scanner built-in service discovers common web application vulnerabilities

- Navigate to **VULNERABILITIES** tab to display a list of findings for the project that you selected.
- To view these findings, use the **FINDINGS** tab. Click on **View by: Source Type**, and then select **Web Security Scanner**
- Web Security Scanner's [managed scan](#) feature automatically configures and schedules scans for each of your in-scope projects.
- Take action and remediate these vulnerability findings by following this [guide](#).
- You can test Web Security Scanner by following this [guide](#).

Watch this [video on getting started with Web Security Scanner](#)

Vulnerabilities						
Use Security Command Center's vulnerabilities dashboard to find potential weaknesses in your organization's Google Cloud resources.						
September 11, 2020 at 7:07:18 AM GMT-7	2SV_NOT_ENFORCED	2-Step Verification should be enabled for all users in your org unit	N/A	🔴	CIS : 1.2 PCI : 8.3 NIST : IA-2 ISO : A.9.4.2	
September 15, 2020 at 12:15:03 AM GMT-7	NON_ORG_JAM_MEMBER	Corporate login credentials should be used instead of Gmail accounts	N/A	🔴	CIS : 1.1 PCI : 7.1.2 NIST : AC-3 ISO : A.9.2.3	
September 14, 2020 at 9:24:11 PM GMT-7	OPEN_CASSANDRA_PORT	Firewall rules should not allow connections from all IP addresses on TCP ports 7000-7001, 7199, 8888, 9042, 9160, 61620-61621	N/A	🔴	PCI : 1.2.1 NIST : SC-7 ISO : A.13.1.1	
September 14, 2020 at 8:43:49 PM GMT-7	OPEN_CISCOSECURE_WEBSM_PORT	Firewall rules should not allow connections from all IP addresses on TCP port 9090	N/A	🔴	PCI : 1.2.1 NIST : SC-7 ISO : A.13.1.1	
September 14, 2020 at 10:59:00 PM GMT-7	OPEN_DIRECTORY_SERVICES_PORT	Firewall rules should not allow connections from all IP addresses on TCP or UDP port 445	N/A	🔴	PCI : 1.2.1 NIST : SC-7 ISO : A.13.1.1	

Findings						
Use Security Command Center's findings display to review possible security risks for your Google Cloud resources.						
View by: CATEGORY SOURCE TYPE FINDINGS CHANGED SEVERITY <input checked="" type="checkbox"/> Show Only Active Findings						
Q Web Security Scanner No findings selected CHANGE ACTIVE STATE SET SECURITY MARKS						
Filter by attributes, properties and marks						
Source type ↑	Count	category ↑	resourceName	eventTime	createTime	sourceProperties.reproductionUrl
All		MIXED_CONTENT	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	May 8, 2020 a...	-
		OUTDATED_LIBRARY	//cloudresourcemanager.googleapis.com/projects/656937747545	November 1...	May 8, 2020 a...	https://first-css-test-project.uc.r...
		OUTDATED_LIBRARY	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	March 29, 20...	https://example-xss-app.uc.r.apps
		OUTDATED_LIBRARY	//cloudresourcemanager.googleapis.com/projects/528987021291	November 1...	May 8, 2020 a...	https://southern-shade-160123.uc...
		XSS	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	May 8, 2020 a...	https://example-xss-app.uc.r.apps
		XSS	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	May 8, 2020 a...	https://example-xss-app.uc.r.apps
		XSS	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	May 8, 2020 a...	https://example-xss-app.uc.r.apps
		XSS	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	May 8, 2020 a...	https://example-xss-app.uc.r.apps
		XSS	//cloudresourcemanager.googleapis.com/projects/735189578014	November 1...	May 8, 2020 a...	https://example-xss-app.uc.r.apps



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## Step 3: Detect Threats

Uncover threats targeting your Google Cloud assets and take action to remediate.

### a. [Event Threat Detection](#) built-in service uncovers threats using logs & threat intelligence

- Enable logs required to find threats in your organization: [VPC flow logs](#), [Cloud DNS logs](#), and [Firewall Rules logs](#).
- Navigate to [THREATS](#) tab to find potential security issues associated with your organization's Google Cloud resources.
- To view these findings, use the [FINDINGS](#) tab. Click on **View by: Source Type**, and then select **Event Threat Detection**.
- Review the findings and affected resources to remediate and take action.
- You can test Event Threat Detection by following this [guide](#).

The screenshot shows the 'Findings' interface with 'Event Threat Detection' selected. The table lists several findings, including 'Persistence: IAM Anomalous Grant' and 'Brute Force: SSH'.

category	resourceName	eventTime	securityMarks.marks
<input type="checkbox"/> Persistence: IAM Anomalous Grant	//cloudresourcemanager.googleapis.com/projects/390790600438	November 4, 2020 at 9:48:37 AM GMT-6	-
<input type="checkbox"/> Brute Force: SSH	//cloudresourcemanager.googleapis.com/projects/390790600438	November 4, 2020 at 9:47:57 AM GMT-6	-
<input type="checkbox"/> Persistence: IAM Anomalous Grant	//cloudresourcemanager.googleapis.com/projects/390790600438	November 4, 2020 at 7:31:58 AM GMT-6	-
<input type="checkbox"/> Brute Force: SSH	//cloudresourcemanager.googleapis.com/projects/390790600438	November 2, 2020 at 7:29:09 AM GMT-6	-
<input type="checkbox"/> Malware: Bad IP	//cloudresourcemanager.googleapis.com/projects/561726106820	November 2, 2020 at 10:20:44 PM GMT-6	-
<input type="checkbox"/> Malware: Bad IP	//cloudresourcemanager.googleapis.com/projects/390790600438	November 2, 2020 at 7:31:31 PM GMT-6	-
<input type="checkbox"/> Brute Force: SSH	//cloudresourcemanager.googleapis.com/projects/390790600438	November 2, 2020 at 9:59:36 AM GMT-6	-
<input type="checkbox"/> Malware: Bad IP	//cloudresourcemanager.googleapis.com/projects/813830723555	November 2, 2020 at 3:34:43 AM GMT-6	-

Watch this [video on getting started with Event Threat Detection](#)

### b. [Container Threat Detection](#) built-in service uses kernel-level instrumentation to identify Container runtime threats

- Navigate to [THREATS](#) tab to find potential security issues associated with your organization's Google Cloud resources.
- To view these findings, use the [FINDINGS](#) tab. Click on **View by: Source Type**, and then select **Container Threat Detection**.
- You can test Container Threat Detection by following this [guide](#).

The screenshot shows the 'Findings' interface with 'Container Threat Detection' selected. The table lists one finding: 'Added Bina...'.

category	resourceName	eventTime	createTime	parent
<input type="checkbox"/> Added Bina...	//container.googleapis.com/projects/projec...	November 2...	November 20...	organizations/72016443624/sources/3371041...

Watch this [video on getting started with Container Threat Detection](#)

Google Cloud

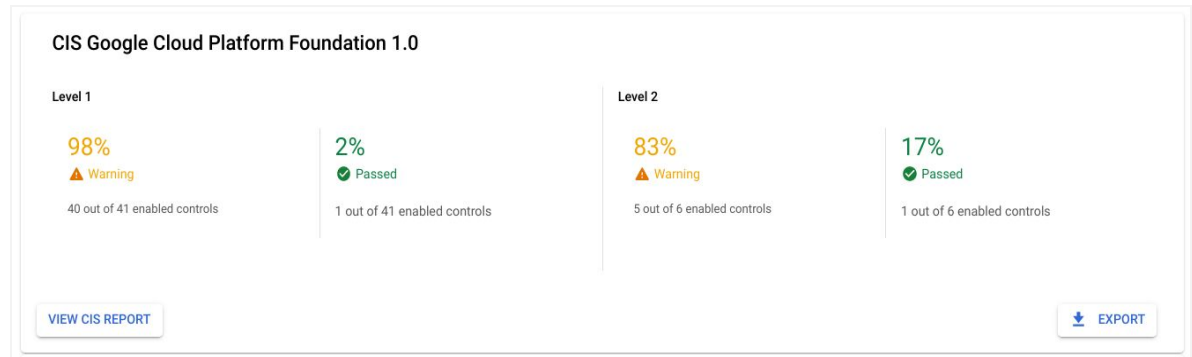
For more information, visit [cloud.google.com/security-command-center](https://cloud.google.com/security-command-center)



## Step 4: Maintain and get compliance reports

Review and export compliance reports to help ensure all your resources are meeting their compliance requirements.

- Navigate to [COMPLIANCE](#) tab to review your organization's compliance posture with regards to industry standards and benchmarks like CIS, PCI DSS, NIST 800-53 and ISO/IEC 27001.
- Review the dashboard to check your organization's compliance score against the industry benchmarks and any violations.
- View all violations by severity and take action by following the recommendations to fix the violations.
- Get reports by clicking on [EXPORT](#) to export reports in a CSV format.





## Step 5: Integrate with your SecOps ecosystem

### a. Consolidate findings into the Security Command Center

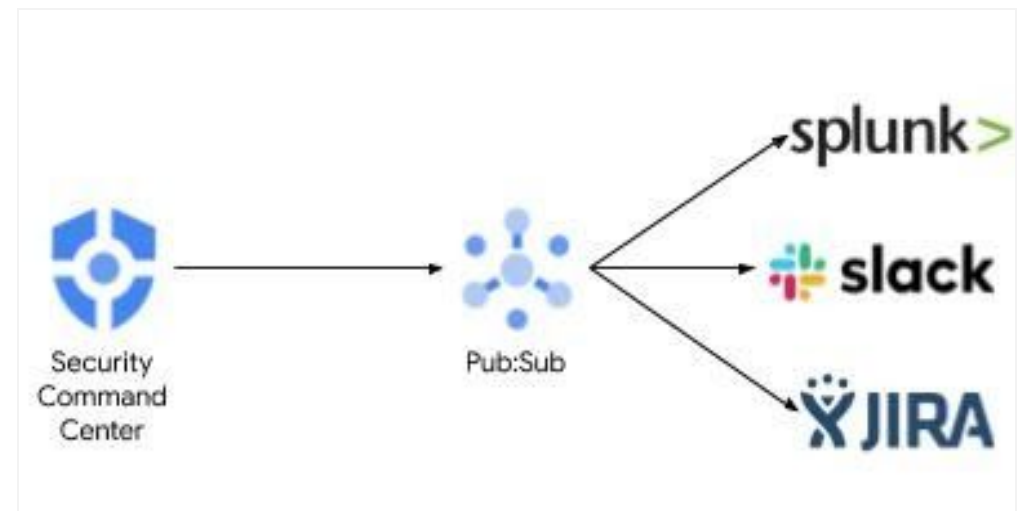
- Go to [SETTINGS](#) and navigate to **Integrated Services** tab and select or add supported integrations.
- Enable the integrated services for findings to be appear in Security Command Center's findings view

SERVICES	INTEGRATED SERVICES	SINKS
<b>Prisma Cloud CSCC</b>		
Source ID	organizations/688851828130/thirdPartyFindingProviders/redlock-gcp/redlock-cscc	<input checked="" type="checkbox"/> Enabled
Service account	prisma-gcpdemo@andychang-scc-tools-demo.iam.gserviceaccount.com	
<b>StackRox Cloud SCC Connector</b>		
Source ID	organizations/688851828130/thirdPartyFindingProviders/stackrox-launcher-project-1/stackrox-cloud-scc	<input checked="" type="checkbox"/> Enabled
Service account	scc-notifications@ac-new-scc-notifications-demo.iam.gserviceaccount.com	

[+ ADD MORE SERVICES](#)

### b. Export your security findings to remediation and ticketing systems

- Enable the Security Command Center API [notifications](#) feature.
- Send findings to existing 3rd party solutions like a Security Orchestration Automation & Response (SOAR), Security Information & Event Management (SIEM) platforms or ticketing systems
- Use [Cloud Functions library](#) to take automated actions.



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