

This document provides a conceptual overview of the audit logs that Google Workspace



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If you don't enable Google Workspace data sharing with Google Cloud, then you can't see audit logs for Google Workspace in Google Cloud.



Note: Some Enterprise Groups Audit membership changes automatically populate the **principalEmail** field in the audit log with **cloud-support@google.com**. For example, an audit log might show **cloud-support@google.com** as the principal removing a user from the group, when the removal of the user is automatic due to the expiration of a user's membership.

Types of audit logs

Admin Activity audit logs contain log entries for API calls or other actions that modify the configuration or metadata of resources. For example, these logs record when users create VM instances or change Identity and Access Management (IAM) permissions.

Data Access audit logs contain API calls that read the configuration or metadata of



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the Google Admin console, changes to Group settings are captured in the Google Workspace Admin Audit logs. For example, if you changed a Group email address in groups.google.com, then those changes are captured in Google Workspace Enterprise Groups Audit logs.

Google Workspace Enterprise Groups Audit: Enterprise Groups Audit logs provide
a record of actions performed on groups and group memberships. For example,
you can see when an administrator added a user or when a group owner deleted
their group.

Enterprise Groups Audit writes Admin Activity audit logs only.

 Google Workspace Login Audit: Login Audit logs track user sign-ins to your domain. These logs only record the login event. They don't record which system was used to perform the login action.

Login Audit writes Data Access audit logs only.



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Google Workspace Admin Activities

Google Workspace Admin Audit audit logs use the resource type audited_resource for all audit logs.

Google Workspace Admin Audit audit logs use the service name admin.googleapis.com.

Google Workspace Admin Audit writes Admin Activity audit logs only. The following are the audited operations:

Activity type	AuditLog.method_name
AI_CLASSIFICATION_SETTINGS	google.admin.AdminService. aiClassificationInsufficientTrainingEngoogle.admin.AdminService.aiClassificationInsufficientTrainingEngoogle.admin.AdminService.aiClassificationInsufficientTrainingEngoogle.admin.AdminService.aiClassificationInsufficientTrainingEngoogle.admin.AdminService.aiClassificationInsufficientTrainingEngoogle.admin.AdminService.

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google.admin.AdminService.deleteManag		_
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google.admin.AdminS	ervice.	
flashlightEduNonFea	turedServicesSele	c.
google.admin.AdminS	ervice.createBuil	d:
google.admin.AdminS	ervice.deleteBuil	d:
google.admin.AdminS	ervice.updateBuil	d:
google.admin.AdminS	ervice.createCale	nı
google.admin.AdminS	ervice.deleteCale	nı
• •		
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	•	
googie.aumiin.Aumino	ervice.reiteasecai	<u></u>
onimba almin Δdmin	ervice meetIntern	nl
	google.admin.AdminS google.admin.AdminS google.admin.AdminS flashlightEduNonFea google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS	google.admin.AdminService.createMana

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	google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS	ervice.deleteRole ervice.addPrivile ervice.removePri ervice.renameRole ervice.updateRole	e eg: vi: e e
DEVICE_SETTINGS	google.admin.AdminS google.admin.AdminS		
DOCS_SETTINGS	google.admin.AdminS google.admin.AdminS google.admin.AdminS	ervice.driveData	Re
DOMAIN_SETTINGS	google.admin.AdminS google.admin.AdminS google.admin.AdminS google.admin.AdminS	ervice.addApplica ervice.addApplica ervice.changeAdva ervice.createAle	at: at: er [.] rt

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google.admin.AdminService.changeCusto google.admin.AdminService. changeDataLocalizationForRussia google.admin.AdminService.changeDataL google.admin.AdminService. changeDataProtectionOfficerContactInf google.admin.AdminService.deletePlayFo google.admin.AdminService.viewDnsLogi google.admin.AdminService.changeDomail google.admin.AdminService.changeDomail google.admin.AdminService.changeDomail google.admin.AdminService.toggleEnable google.admin.AdminService.changeDomai google.admin.AdminService.addTrustedDo google.admin.AdminService.removeTrust google.admin.AdminService.changeEduTy google.admin.AdminService.toggleEnable google.admin.AdminService.toggleSsoEn google.admin.AdminService.toggleSsl noonle admin AdminService

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google.admin.AdminService.createRule
google.admin.AdminService.changeRuleC
google.admin.AdminService.deleteRule
google.admin.AdminService.renameRule
google.admin.AdminService.ruleStatusCl
google.admin.AdminService.addSecondary
google.admin.AdminService.removeSecond
google.admin.AdminService.skipSeconda
google.admin.AdminService.verifySecond
google.admin.AdminService.verifySecond
google.admin.AdminService.updateDomain
google.admin.AdminService.generatePin
google.admin.AdminService.updateRule

google.admin.AdminService.dropFromQua
google.admin.AdminService.emailLogSea

EMAIL_SETTINGS

google.admin.AdminService.dropFromQua google.admin.AdminService.emailLogSea google.admin.AdminService.emailUndele google.admin.AdminService.changeEmail: google.admin.AdminService.changeGmail:

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	google.admin.AdminS	ervice.userLicens	e,
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	google.admin.AdminS	ervice.actionRequ	e:
	google.admin.AdminS	ervice.addMobileC	e
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google.admin.AdminService. enrollForGoogleDeviceManagement google.admin.AdminService.useGoogleMol google.admin.AdminService. useGoogleMobileManagementForNonIos google.admin.AdminService. useGoogleMobileManagementForIos google.admin.AdminService.mobileAccour google.admin.AdminService. mobileDeviceCancelWipeThenApprove google.admin.AdminService. mobileDeviceCancelWipeThenBlock google.admin.AdminService.chromeLicens google.admin.AdminService. ${\tt chromeApplicationLicenseReservationCross}$ google.admin.AdminService. chromeApplicationLicenseReservationDe google.admin.AdminService. chromeApplicationLicenseReservationUp

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SITES_SETTINGS

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changeTwoStepVerificationGracePeriodD google.admin.AdminService. ${\tt changeTwoStepVerificationStartDate}$ google.admin.AdminService.disallowSer google.admin.AdminService. enableNonAdminUserPasswordRecovery google.admin.AdminService.enforceStrol google.admin.AdminService.removeFromT google.admin.AdminService.sessionCont google.admin.AdminService.toggleCaaEn google.admin.AdminService.trustDomain google.admin.AdminService.unblockOnDe google.admin.AdminService.untrustDoma: google.admin.AdminService. updateErrorMsgForRestrictedOauth2Apps google.admin.AdminService. weak Programmatic Login Settings Changedgoogle.admin.AdminService.addWebAddre google.admin.AdminService.deleteWebAd

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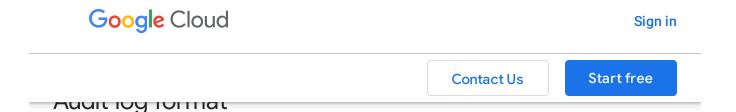
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userPutInTwoStepVerificationGracePeric google.admin.AdminService.renameUser google.admin.AdminService.unenrollUse google.admin.AdminService.unarchiveUsc google.admin.AdminService.undeleteUsc google.admin.AdminService.undeleteUsc google.admin.AdminService.ungradeUsc google.admin.AdminService.upgradeUscr google.admin.AdminService.usersBulkUpl google.admin.AdminService.usersBulkUpl google.admin.AdminService.

Google Workspace Enterprise Groups

Goodle Workshace Login Audit



Google Workspace audit log entries include the following objects:

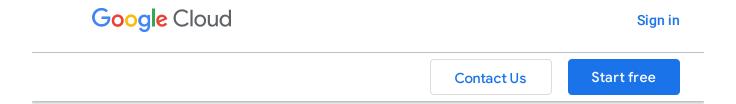
- The log entry itself, which is an object of type LogEntry. When examining audit logging data, you might find the following useful:
 - logName contains the organization ID and audit log type.
 - resource contains the target of the audited operation.
 - timeStamp contains the time of the audited operation.
 - protoPayload contains the Google Workspace audit log in its metadata field.

The protoPayload.metadata field holds the audited Google Workspace information. The following is an example of a Login Audit log:

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```
"name": "login_challenge_method",
        "type": "TYPE_STRING",
        "label": "LABEL_REPEATED",
        "multiStrValue": [
          "password",
          "idv_preregistered_phone",
          "idv_preregistered_phone"
      },
  }
],
"activityId": {
  "uniqQualifier": "358068855354",
  "timeUsec": "1632500217183212"
},
"@type": "type.googleapis.com/ccc_hosted_reporting.ActivityProto"
```



Route audit logs

You can route Google Workspace audit logs from Cloud Logging to supported destinations, including other Logging buckets.

Here are some applications for routing audit logs:

- To use more powerful search capabilities, you can route copies of your audit logs to Cloud Storage, BigQuery, or Pub/Sub. Using Pub/Sub, you can route to other applications, other repositories, and to third parties.
- To manage your audit logs across an entire organization, you can create aggregated sinks that combine and route logs from all the Google Cloud projects, billing accounts, and folders contained by your organization. For instance, you might aggregate and route audit log entries from an organization's folders to a Cloud Storage bucket.



You can configure Cloud Logging to retain the logs in the _Default logs bucket for a period ranging from 1 day to 3650 days.

To update the retention period for the _Default logs bucket, see Custom retention.

You can't change the retention period on the _Required bucket.

Quotas and limits

The same quotas apply to audit logs for Google Workspace and Cloud Audit Logs.

For details about these usage limits, including the maximum sizes of audit logs, see Quotas and limits.

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Last updated 2024-10-29 UTC.

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Infrastructure Cloud	pricing	Smart analytics	quickstarts	Events
Multicloud	See all products	Artificial	Google Cloud Marketplace	Podcasts
Global		Intelligence	Learn about	Developer Center
infrastructure		Security	cloud computing	Press Corner
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