Cloud Logging audit logging

This document describes audit logging for Cloud Logging. Google Cloud services generate audit logs that record administrative and access activities within your Google Cloud resources. For more information about Cloud Audit Logs, see the following:

- Types of audit logs (/logging/docs/audit#types)
- <u>Audit log entry structure</u> (/logging/docs/audit#audit_log_entry_structure)
- <u>Storing and routing audit logs</u> (/logging/docs/audit#storing_and_routing_audit_logs)
- <u>Cloud Logging pricing summary</u> (/stackdriver/pricing#logs-pricing-summary)
- Enable Data Access audit logs (/logging/docs/audit/configure-data-access)

Service name

Cloud Logging audit logs use the service name logging.googleapis.com. Filter for this service:

protoPayload.serviceName="logging.googleapis.com"

Methods by permission type

Each IAM permission has a type property, whose value is an enum that can be one of four values: ADMIN_READ, ADMIN_WRITE, DATA_READ, or DATA_WRITE. When you call a method, Cloud Logging generates an audit log whose category is dependent on the type property of the permission required to perform the method. Methods that require an IAM permission with the type property value of DATA_READ, DATA_WRITE, or ADMIN_READ generate Data Access (/logging/docs/audit#data-access) audit logs. Methods that require an IAM permission with the type property value of ADMIN_WRITE generate Admin Activity (/logging/docs/audit#admin-activity) audit logs.

Permission Methods type ${\tt google.cloud.location.Locations.GetLocation}$ ADMIN_READ google.cloud.location.Locations.ListLocations google.iam.v1.IAMPolicy.GetIamPolicy google.logging.v2.ConfigServiceV2.GetBucket google.logging.v2.ConfigServiceV2.GetCmekSettings google.logging.v2.ConfigServiceV2.GetExclusion google.logging.v2.ConfigServiceV2.GetLink google.logging.v2.ConfigServiceV2.GetLogScope google.logging.v2.ConfigServiceV2.GetSettings google.logging.v2.ConfigServiceV2.GetSink google.logging.v2.ConfigServiceV2.GetView google.logging.v2.ConfigServiceV2.ListBuckets google.logging.v2.ConfigServiceV2.ListExclusions google.logging.v2.ConfigServiceV2.ListLinks google.logging.v2.ConfigServiceV2.ListLogScopes google.logging.v2.ConfigServiceV2.ListSinks google.logging.v2.ConfigServiceV2.ListViews google.logging.v2.LoggingServiceV2.ListLogs google.logging.v2.MetricsServiceV2.GetLogMetric google.logging.v2.MetricsServiceV2.ListLogMetrics google.longrunning.Operations.GetOperation google.longrunning.Operations.ListOperations ADMIN_WRITE google.iam.v1.IAMPolicy.SetIamPolicy google.logging.v2.ConfigServiceV2.CreateBucket google.logging.v2.ConfigServiceV2.CreateBucketAsync google.logging.v2.ConfigServiceV2.CreateExclusion google.logging.v2.ConfigServiceV2.CreateLink google.logging.v2.ConfigServiceV2.CreateLogScope google.logging.v2.ConfigServiceV2.CreateSink google.logging.v2.ConfigServiceV2.CreateView google.logging.v2.ConfigServiceV2.DeleteBucket google.logging.v2.ConfigServiceV2.DeleteExclusion google.logging.v2.ConfigServiceV2.DeleteLink google.logging.v2.ConfigServiceV2.DeleteLogScope google.logging.v2.ConfigServiceV2.DeleteSink google.logging.v2.ConfigServiceV2.DeleteView google.logging.v2.ConfigServiceV2.UndeleteBucket google.logging.v2.ConfigServiceV2.UpdateBucket google.logging.v2.ConfigServiceV2.UpdateBucketAsync google.logging.v2.ConfigServiceV2.UpdateCmekSettings

google.logging.v2.ConfigServiceV2.UpdateExclusion

```
google.logging.v2.ConfigServiceV2.UpdateLogScope
google.logging.v2.ConfigServiceV2.UpdateSettings
google.logging.v2.ConfigServiceV2.UpdateSink
google.logging.v2.ConfigServiceV2.UpdateView
google.logging.v2.LoggingServiceV2.DeleteLog
google.logging.v2.MetricsServiceV2.CreateLogMetric
google.logging.v2.MetricsServiceV2.DeleteLogMetric
google.logging.v2.MetricsServiceV2.UpdateLogMetric
google.logging.v2.MetricsServiceV2.UpdateLogMetric
google.logging.v2.ConfigServiceV2.CopyLogEntries
google.logging.v2.LoggingServiceV2.ListLogEntries
```

API interface audit logs

For information about how and which permissions are evaluated for each method, see the Identity and Access Management documentation for Cloud Logging.

google.cloud.location.Locations

The following audit logs are associated with methods belonging to google.cloud.location.Locations.

GetLocation

- Method: google.cloud.location.Locations.GetLocation
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.locations.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
\verb|protoPayload.methodName="google.cloud.location.Locations.GetLocation"|
```

ListLocations

- Method: google.cloud.location.Locations.ListLocations
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:

- logging.locations.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

 $\verb|protoPayload.methodName="google.cloud.location.Locations.ListLocations"|$

google.iam.v1.IAMPolicy

The following audit logs are associated with methods belonging to google.iam.v1.IAMPolicy.

GetIamPolicy

- Method: google.iam.v1.IAMPolicy.GetIamPolicy
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.views.getIamPolicy ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.iam.v1.IAMPolicy.GetIamPolicy"

SetIamPolicy

- Method: google.iam.v1.IAMPolicy.SetIamPolicy
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.views.setIamPolicy ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.iam.v1.IAMPolicy.SetIamPolicy"

google.logging.v2.ConfigServiceV2

The following audit logs are associated with methods belonging to google.logging.v2.ConfigServiceV2.

CopyLogEntries

- Method: google.logging.v2.ConfigServiceV2.CopyLogEntries
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.buckets.copyLogEntries DATA_READ
- Method is a long-running or streaming operation: <u>Long-running operation</u> (/logging/docs/audit/understanding-audit-logs#lro)
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CopyLogEntrie
s"

CreateBucket

- Method: google.logging.v2.ConfigServiceV2.CreateBucket
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.buckets.create ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateBucket"

CreateBucketAsync

- Method: google.logging.v2.ConfigServiceV2.CreateBucketAsync
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.buckets.create ADMIN_WRITE
- Method is a long-running or streaming operation: <u>Long-running operation</u> (/logging/docs/audit/understanding-audit-logs#lro)
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateBucketA sync"

CreateExclusion

- Method: google.logging.v2.ConfigServiceV2.CreateExclusion
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.exclusions.create ADMIN_WRITE

- Method is a long-running or streaming operation: No.
- Filter for this method:

 $\verb|protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateExclusion"|$

CreateLink

- Method: google.logging.v2.ConfigServiceV2.CreateLink
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.links.create ADMIN_WRITE
- Method is a long-running or streaming operation: <u>Long-running operation</u> (/logging/docs/audit/understanding-audit-logs#lro)
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateLink"

CreateLogScope

- Method: google.logging.v2.ConfigServiceV2.CreateLogScope
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logScopes.create ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateLogScop"
e"

CreateSink

- Method: google.logging.v2.ConfigServiceV2.CreateSink
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.sinks.create ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateSink"

CreateView

- Method: google.logging.v2.ConfigServiceV2.CreateView
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.views.create ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.CreateView"

DeleteBucket

- Method: google.logging.v2.ConfigServiceV2.DeleteBucket
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.buckets.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.DeleteBucket"

DeleteExclusion

- Method: google.logging.v2.ConfigServiceV2.DeleteExclusion
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.exclusions.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.DeleteExclusi
on"

DeleteLink

- Method: google.logging.v2.ConfigServiceV2.DeleteLink
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.links.delete ADMIN_WRITE

- Method is a long-running or streaming operation: <u>Long-running operation</u> (/logging/docs/audit/understanding-audit-logs#lro)
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.DeleteLink"

DeleteLogScope

- Method: google.logging.v2.ConfigServiceV2.DeleteLogScope
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logScopes.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.DeleteLogScop"
e"

DeleteSink

- Method: google.logging.v2.ConfigServiceV2.DeleteSink
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.sinks.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.DeleteSink"

DeleteView

- Method: google.logging.v2.ConfigServiceV2.DeleteView
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.views.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.DeleteView"

GetBucket

- Method: google.logging.v2.ConfigServiceV2.GetBucket
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.buckets.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetBucket"

GetCmekSettings

- Method: google.logging.v2.ConfigServiceV2.GetCmekSettings
- **Audit log type**: Data access (/logging/docs/audit#data-access)
- Permissions:
 - logging.settings.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetCmekSettin
qs"

GetExclusion

- Method: google.logging.v2.ConfigServiceV2.GetExclusion
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.exclusions.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetExclusion"

GetLink

- Method: google.logging.v2.ConfigServiceV2.GetLink
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.links.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetLink"

GetLogScope

- Method: google.logging.v2.ConfigServiceV2.GetLogScope
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.logScopes.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetLogScope"
```

GetSettings

- Method: google.logging.v2.ConfigServiceV2.GetSettings
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.settings.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetSettings"
```

GetSink

- Method: google.logging.v2.ConfigServiceV2.GetSink
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.sinks.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetSink"
```

GetView

- Method: google.logging.v2.ConfigServiceV2.GetView
- Audit log type: Data access (/logging/docs/audit#data-access)
- Permissions:
 - logging.views.get ADMIN_READ
- Method is a long-running or streaming operation: No.

Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.GetView"

ListBuckets

- Method: google.logging.v2.ConfigServiceV2.ListBuckets
- Audit log type: Data access (/logging/docs/audit#data-access)
- Permissions:
 - logging.buckets.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.ListBuckets"

ListExclusions

- Method: google.logging.v2.ConfigServiceV2.ListExclusions
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.exclusions.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.ListExclusion
s"

ListLinks

- Method: google.logging.v2.ConfigServiceV2.ListLinks
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.links.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.ListLinks"

ListLogScopes

- Method: google.logging.v2.ConfigServiceV2.ListLogScopes
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)

- Permissions:
 - logging.logScopes.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.ListLogScopes"
```

ListSinks

- Method: google.logging.v2.ConfigServiceV2.ListSinks
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.sinks.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.ListSinks"
```

ListViews

- Method: google.logging.v2.ConfigServiceV2.ListViews
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.views.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.ListViews"
```

UndeleteBucket

- Method: google.logging.v2.ConfigServiceV2.UndeleteBucket
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.buckets.undelete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

```
protoPayload.methodName="google.logging.v2.ConfigServiceV2.UndeleteBucke
t"
```

UpdateBucket

- Method: google.logging.v2.ConfigServiceV2.UpdateBucket
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.buckets.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateBucket"

UpdateBucketAsync

- Method: google.logging.v2.ConfigServiceV2.UpdateBucketAsync
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.buckets.update ADMIN_WRITE
- Method is a long-running or streaming operation: <u>Long-running operation</u> (/logging/docs/audit/understanding-audit-logs#lro)
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateBucketA sync"

UpdateCmekSettings

- Method: google.logging.v2.ConfigServiceV2.UpdateCmekSettings
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.settings.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateCmekSet tings"

UpdateExclusion

- Method: google.logging.v2.ConfigServiceV2.UpdateExclusion
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:

- logging.exclusions.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateExclusi
on"

UpdateLogScope

- Method: google.logging.v2.ConfigServiceV2.UpdateLogScope
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logScopes.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateLogScop"
e"

UpdateSettings

- Method: google.logging.v2.ConfigServiceV2.UpdateSettings
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.settings.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateSetting
s"

UpdateSink

- Method: google.logging.v2.ConfigServiceV2.UpdateSink
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.sinks.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateSink"

UpdateView

- Method: google.logging.v2.ConfigServiceV2.UpdateView
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.views.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.ConfigServiceV2.UpdateView"

google.logging.v2.LoggingServiceV2

The following audit logs are associated with methods belonging to google.logging.v2.LoggingServiceV2.

DeleteLog

- Method: google.logging.v2.LoggingServiceV2.DeleteLog
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logs.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.LoggingServiceV2.DeleteLog"

ListLogEntries

- Method: google.logging.v2.LoggingServiceV2.ListLogEntries
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.logEntries.list DATA_READ
 - logging.privateLogEntries.list DATA_READ
 - logging.views.access DATA_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.LoggingServiceV2.ListLogEntri
es"

ListLogs

- Method: google.logging.v2.LoggingServiceV2.ListLogs
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.logs.list ADMIN_READ
 - logging.views.listLogs ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.LoggingServiceV2.ListLogs"

google.logging.v2.MetricsServiceV2

The following audit logs are associated with methods belonging to google.logging.v2.MetricsServiceV2.

CreateLogMetric

- Method: google.logging.v2.MetricsServiceV2.CreateLogMetric
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logMetrics.create ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.MetricsServiceV2.CreateLogMet ric"

DeleteLogMetric

- Method: google.logging.v2.MetricsServiceV2.DeleteLogMetric
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logMetrics.delete ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.MetricsServiceV2.DeleteLogMet ric"

GetLogMetric

- Method: google.logging.v2.MetricsServiceV2.GetLogMetric
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.logMetrics.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.MetricsServiceV2.GetLogMetric"

ListLogMetrics

- Method: google.logging.v2.MetricsServiceV2.ListLogMetrics
- Audit log type: Data access (/logging/docs/audit#data-access)
- Permissions:
 - logging.logMetrics.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.MetricsServiceV2.ListLogMetri
cs"

UpdateLogMetric

- Method: google.logging.v2.MetricsServiceV2.UpdateLogMetric
- Audit log type: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.logMetrics.update ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.logging.v2.MetricsServiceV2.UpdateLogMet ric"

google.longrunning.Operations

The following audit logs are associated with methods belonging to google.longrunning.Operations.

CancelOperation

- Method: google.longrunning.Operations.CancelOperation
- **Audit log type**: Admin activity (/logging/docs/audit#admin-activity)
- Permissions:
 - logging.operations.cancel ADMIN_WRITE
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.longrunning.Operations.CancelOperation"

GetOperation

- Method: google.longrunning.Operations.GetOperation
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.operations.get ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.longrunning.Operations.GetOperation"

ListOperations

- Method: google.longrunning.Operations.ListOperations
- Audit log type: <u>Data access</u> (/logging/docs/audit#data-access)
- Permissions:
 - logging.operations.list ADMIN_READ
- Method is a long-running or streaming operation: No.
- Filter for this method:

protoPayload.methodName="google.longrunning.Operations.ListOperations"

Methods that don't produce audit logs

A method might not produce audit logs for one or more of the following reasons:

- It is a high volume method involving significant log generation and storage costs.
- It has low auditing value.
- Another audit or platform log already provides method coverage.

The following methods don't produce audit logs:

- google.logging.v1.LoggingService.WriteLogEntries
- google.logging.v2.ConfigServiceV2.CreateSavedQuery
- google.logging.v2.ConfigServiceV2.DeleteSavedQuery
- google.logging.v2.ConfigServiceV2.GetSavedQuery
- google.logging.v2.ConfigServiceV2.ListRecentQueries
- google.logging.v2.ConfigServiceV2.ListSavedQueries
- google.logging.v2.ConfigServiceV2.UpdateSavedQuery
- google.logging.v2.LoggingServiceV2.ListMonitoredResourceDescriptors
- google.logging.v2.LoggingServiceV2.TailLogEntries
- google.logging.v2.LoggingServiceV2.WriteLogEntries
- google.longrunning.Operations.DeleteOperation
- google.longrunning.Operations.WaitOperation

Except as otherwise noted, the content of this page is licensed under the <u>Creative Commons Attribution 4.0 License</u> (https://creativecommons.org/licenses/by/4.0/), and code samples are licensed under the <u>Apache 2.0 License</u> (https://www.apache.org/licenses/LICENSE-2.0). For details, see the <u>Google Developers Site Policies</u> (https://developers.google.com/site-policies). Java is a registered trademark of Oracle and/or its affiliates.

Last updated 2025-05-09 UTC.