Lab

**From Google Cloud Console**

1. Go to Audit Logs by visiting <https://console.cloud.google.com/iam-admin/audit>.
2. Ensure that Admin Read, Data Write, and Data Read are enabled for all Google Cloud services and that no exemptions are allowed

**From Google Cloud CLI**

1. To read the project's IAM policy and store it in a file run a command:

gcloud projects get-iam-policy PROJECT\_ID > /tmp/project\_policy.yaml

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**From Google Cloud Console**

1. Go to Logs Router by visiting <https://console.cloud.google.com/logs/router>.

2. Click on the arrow symbol with CREATE SINK text.

3. Fill out the fields for Sink details.

4. Choose Cloud Logging bucket in the Select sink destination drop down menu.

5. Choose a log bucket in the next drop down menu.

6. If an inclusion filter is not provided for this sink, all ingested logs will be routed to the destination provided above. This may result in higher than expected resource usage.

7. Click Create Sink.

**From Google Cloud CLI**

To create a sink to export all log entries in a Google Cloud Storage bucket:

gcloud logging sinks create <sink-name>

storage.googleapis.com/DESTINATION\_BUCKET\_NAME

Sinks can be created for a folder or organization, which will include all projects.

gcloud logging sinks create <sink-name>

storage.googleapis.com/DESTINATION\_BUCKET\_NAME --include-children --

folder=FOLDER\_ID | --organization=ORGANIZATION\_ID

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**From Google Cloud Console**

1. If sinks are not configured, first follow the instructions in the recommendation: Ensure that sinks are configured for all Log entries.

2. For each storage bucket configured as a sink, go to the Cloud Storage browser at [https://console.cloud.google.com/storage/browser/<BUCKET\_NAME](https://console.cloud.google.com/storage/browser/%3cBUCKET_NAME)>.

3. Select the Bucket Lock tab near the top of the page.

4. In the Retention policy entry, click the Add Duration link. The Set a retention policy dialog box appears.

5. Enter the desired length of time for the retention period and click Save policy.

6. Set the Lock status for this retention policy to Locked.

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**From Google Cloud CLI**

1. To list all sinks destined to storage buckets:

gcloud logging sinks list --folder=FOLDER\_ID | --organization=ORGANIZATION\_ID | --project=PROJECT\_ID

2. For each storage bucket listed above, set a retention policy and lock it:

gsutil retention set [TIME\_DURATION] gs://[BUCKET\_NAME]

gsutil retention lock gs://[BUCKET\_NAME]