

Monitor and Log with Google Cloud Observability

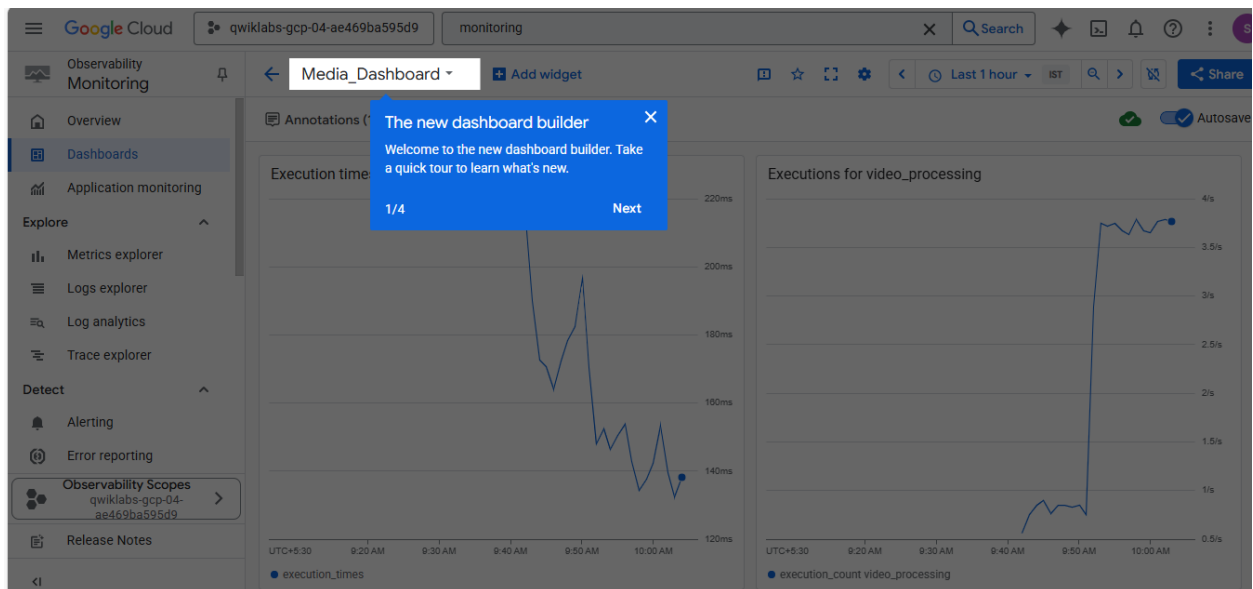
Task 1: Configure Cloud Monitoring

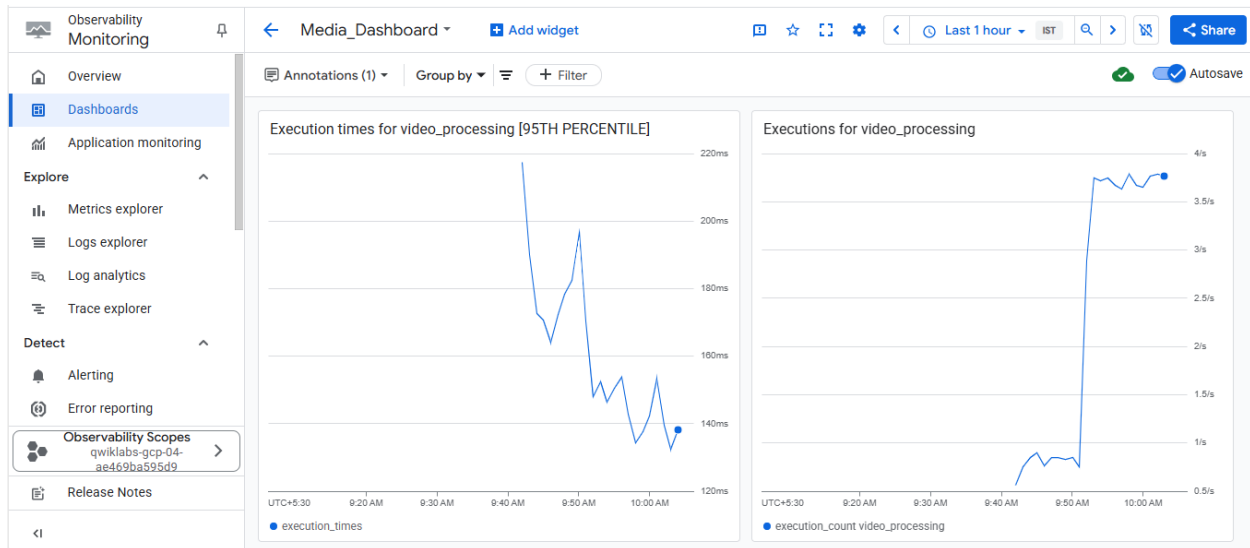
Go to monitoring

Go to Dashboards

Search for Media_Dashboard

If present then your task 1 is done





Task 2: Configure a Compute Instance to generate Custom Cloud Monitoring metrics

Go to VM instances

check box "video-queue-monitor" and stop the VM

click on VM "video-queue-monitor" and then click on edit

copy the startup script into notepad

edit the following things in notepad:

- project id
- instance id
- zone

copy paste it into the startup-script

click save

Click start/resume VM

(Task 2 will get completed along with task 3)

The screenshot shows the Google Cloud Platform interface for VM instances. The left sidebar contains navigation links for Compute Engine, Overview, Security risk overview, Virtual machines, and various instance management options. The main panel displays a table of VM instances with columns for Status, Name, Zone, Recommendations, In use by, Internal IP, External IP, and Connect. Two instances are listed: 'lab-monitor' and 'video-queue-monitor', both in the 'us-west1-c' zone. Below the table, there are several 'Related actions' cards, including 'Explore protection summary', 'Monitor VMs', 'Explore VM logs', 'Set up firewall rules', 'Patch management', and 'Load balance between VMs'.

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	lab-monitor	us-west1-c			10.138.0.3 (nic0)	35.233.229.108 (nic0)	SSH
<input checked="" type="checkbox"/>	video-queue-monitor	us-west1-c			10.138.0.2 (nic0)	34.169.51.247 (nic0)	SSH

This screenshot shows the same Google Cloud Platform interface as the previous one, but with a modal dialog box open in the foreground. The dialog is titled 'Stop video-queue-monitor?' and contains information about the resources that will be billed during the shutdown process. It lists 'Persistent disks' and 'Static IP addresses' as billable resources. A warning states that the VM will be forced to stop if processes are still running, which could corrupt files. There is a checkbox for 'Skip graceful shutdown (if applicable)' with a 'Beta' label. At the bottom of the dialog are 'Cancel' and 'Stop' buttons. The background shows the same VM instances table and related actions.

Stop video-queue-monitor?

You'll be billed only for these preserved resources:

- Persistent disks
- Static IP addresses

The VM will shut down. If processes are still running, the VM will be forced to stop and files may get corrupted.

☐ Skip graceful shutdown (if applicable) **Beta**

[Cancel](#) [Stop](#)

← Edit video-queue-monitor instance

Service metadata: This is useful for passing arbitrary values to your project or instance that can be queried by your code on the instance. [Learn more](#)

Key 1 *

foo

Value 1

bar

+ Add item

Automation

Startup script

```
#!/bin/bash
export PROJECT_ID=$(gcloud config list --format 'value(core.project)')
```

You can choose to specify a startup script that will run when your instance boots up or restarts. Startup scripts can be used to install software and updates, and to ensure that services are running within the virtual machine. [Learn more](#)

Sole tenancy

Provision VMs on a sole-tenant group or on a specific node within the group, within your project or projects shared with you. [Learn more](#)

Task 3: Create a custom metric using Cloud Operations logging events

Go to logs explorer and type what is written below:

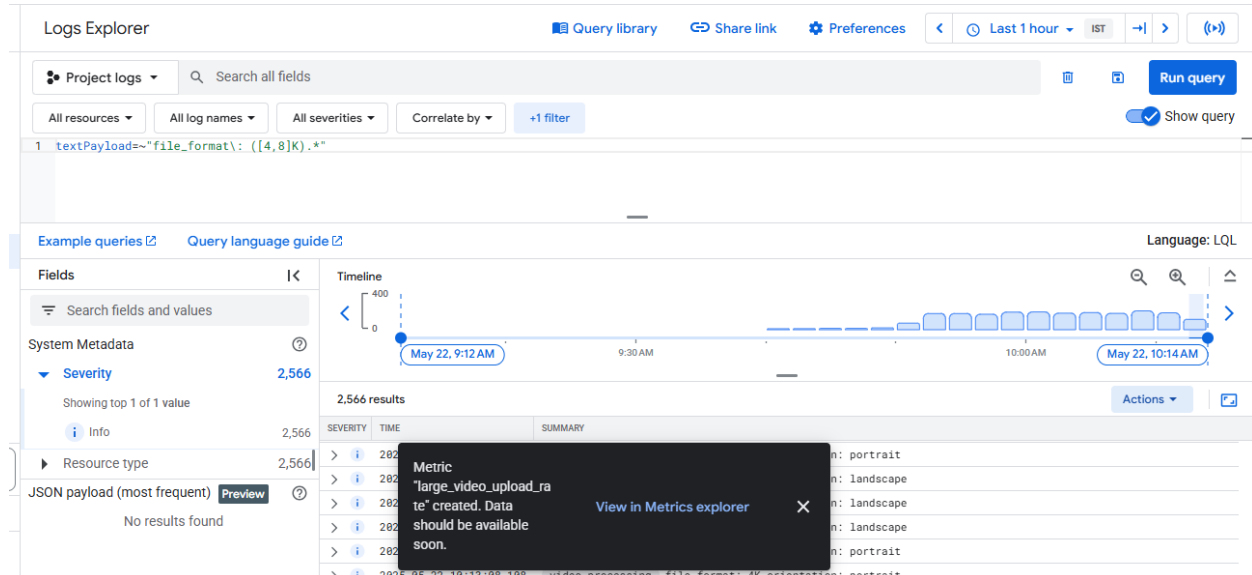
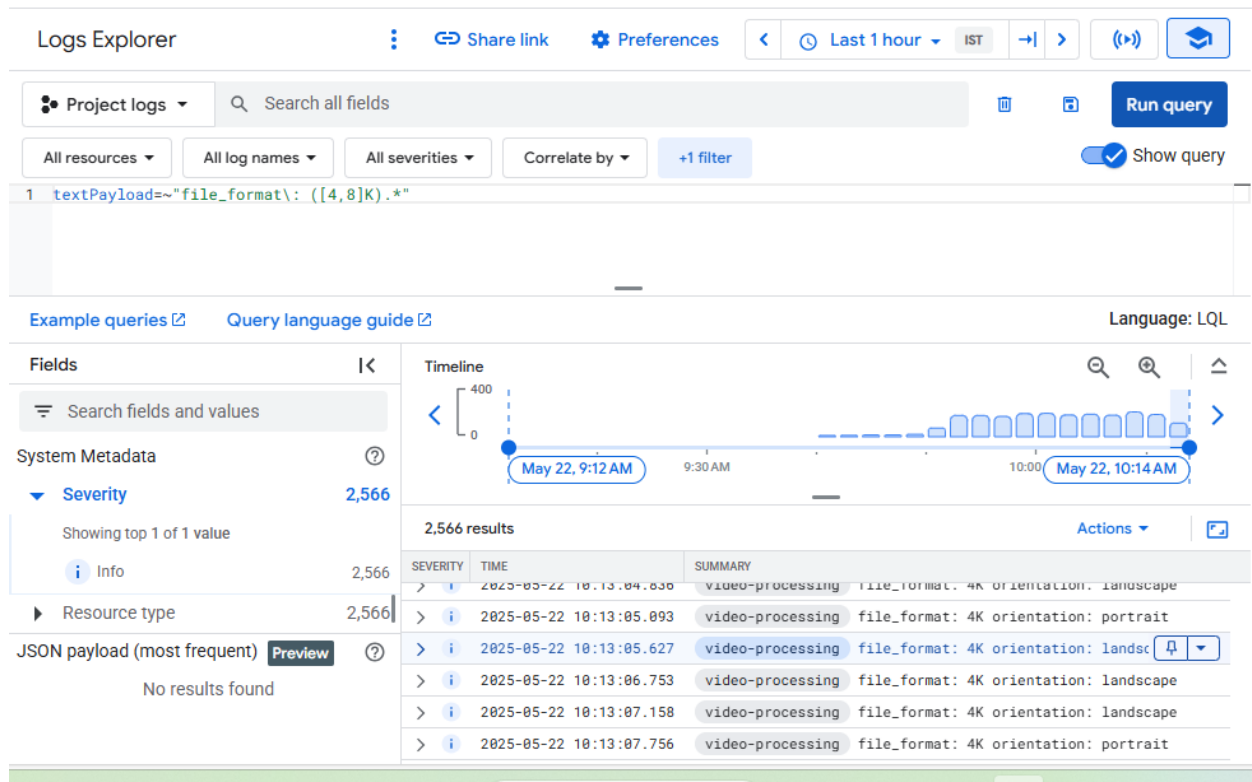
textPayload=~"file_format: ([4,8]K).*"

Run Query

Actions: Create metric Type: Counter Log metric name:

create metric

Task 2 and 3 gets completed here.



Task 4. Check that custom metrics for the video service have been added to the media dashboard

Go to Monitoring > Dashboard

- Click Media Dashboard
- Add Chart

- Resource Type: VM Instance
- Metrics: OpenCensus/my.videoservice.org/measure/input_queue_size (uncheck Only show active)
- Filter: instance_id, click your video-queue-monitor instance id (from Task 2) then Apply

SAVE

Add Chart

- Resource: VM Instance
- Metric: logging/user/

Task 5: Create a Cloud Operations alert based on the rate of high resolution video file uploads

Go to monitoring > Alert

- Create Policy

- Metric: logging/user/<Custom Metric Name>

- Threshold: <given threshold>

- For: 1 minute

- Name your alert with name of your choice example: "large video uploads"