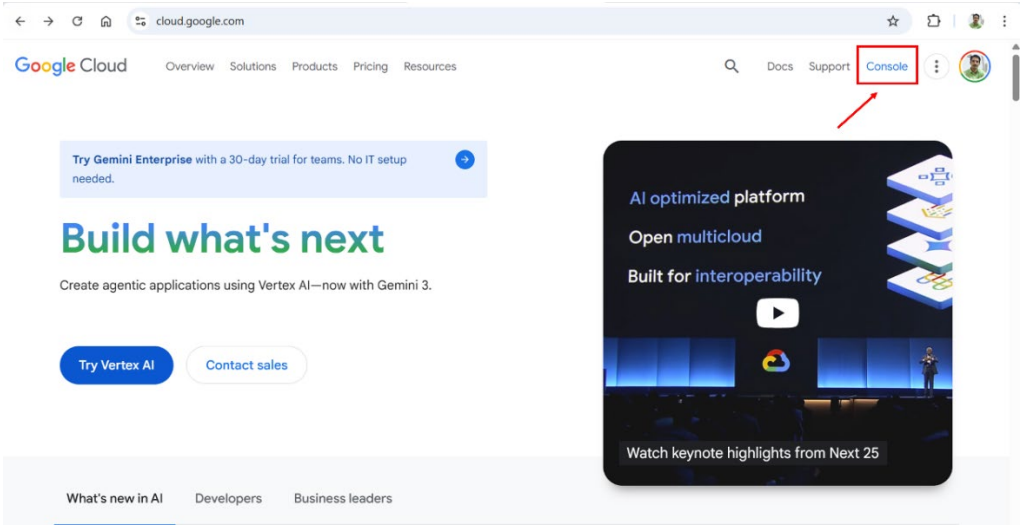
CLOUD COMPUTING LABORATORY

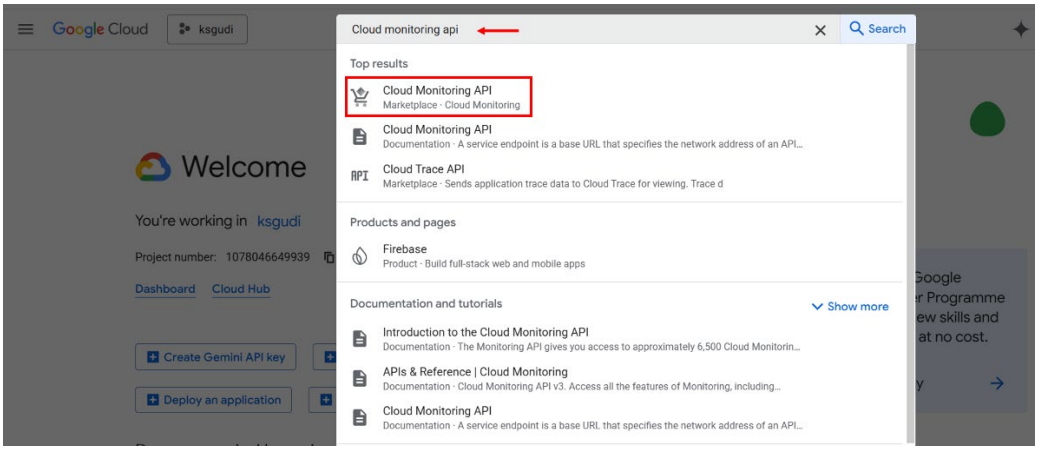
Experiment – 9:

Discover how Cloud Monitoring help in tracking and analyzing the performance and health of cloud resources.

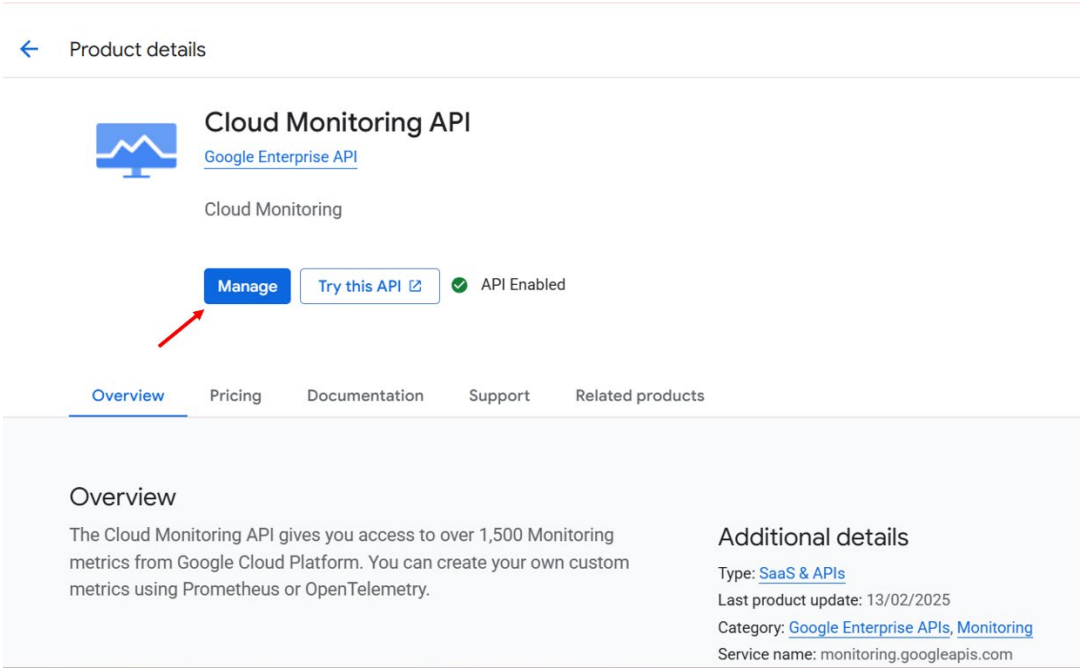
Step 1: From the Google Cloud homepage, click on **Console** to open the Google Cloud Console.



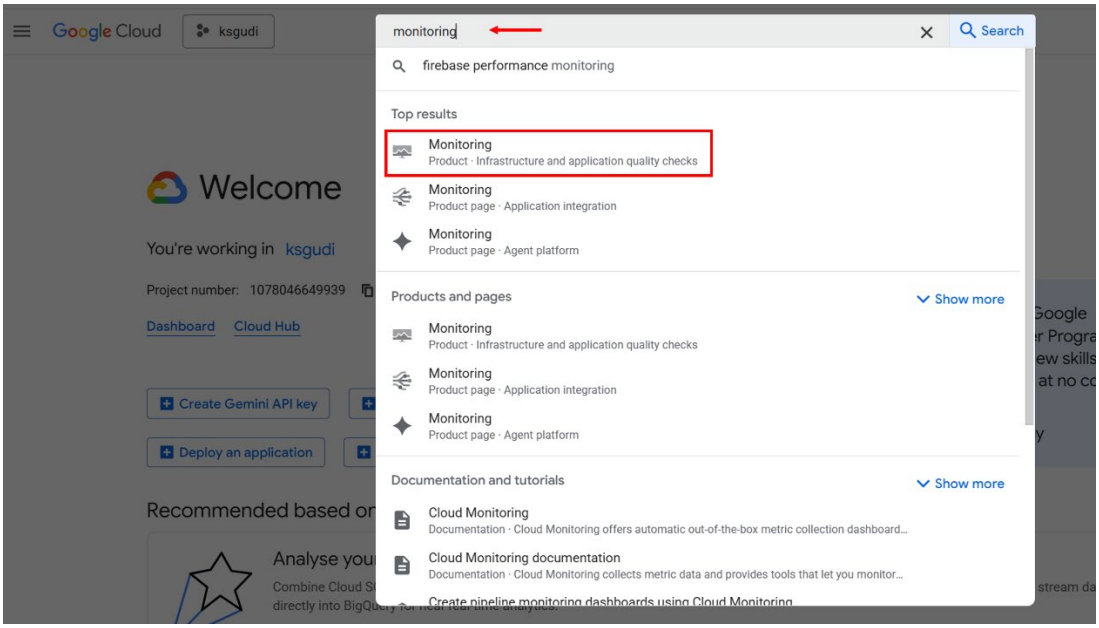
Step 2: In the Google Cloud Console search bar, type **Cloud Monitoring API** and select **Cloud Monitoring API** from the search results.



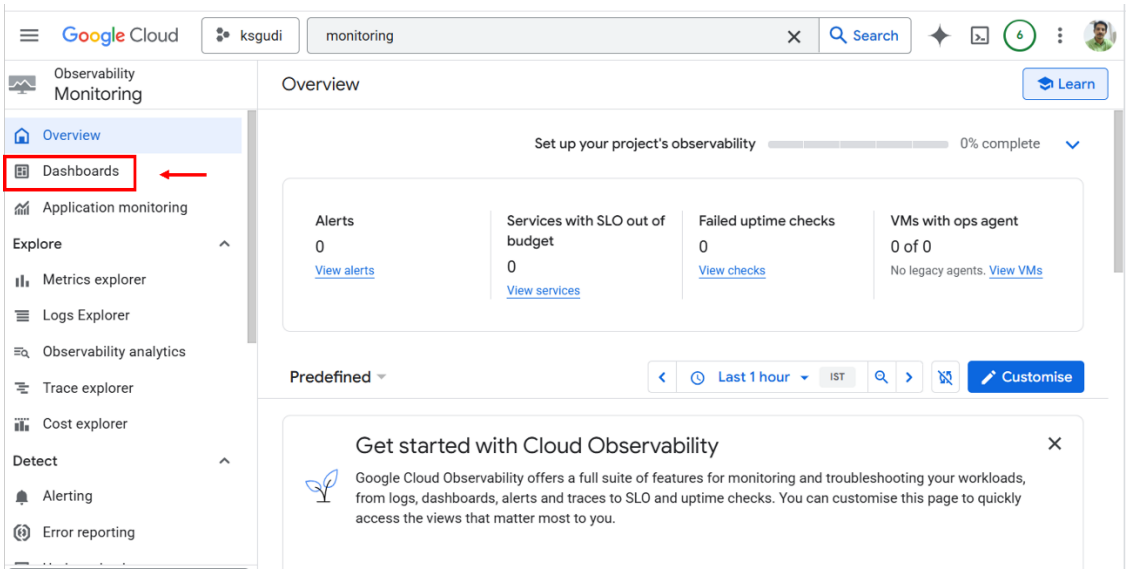
Step 3: Verify that the **Cloud Monitoring API** is enabled and click **Manage**.



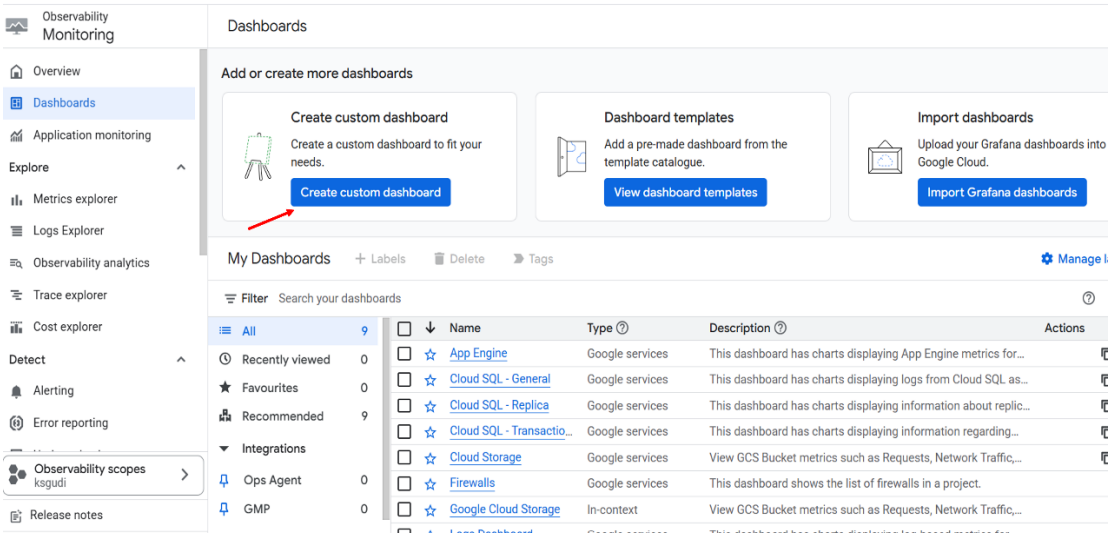
Step 4: Search for **Monitoring** in the console search bar and select **Monitoring** from the search results.



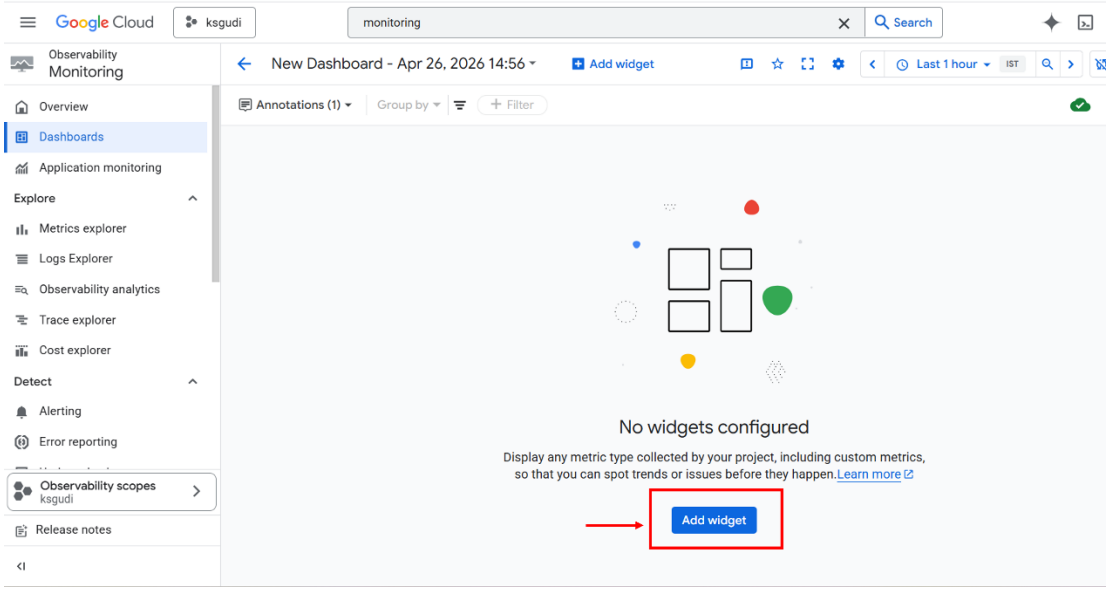
Step 5: On the Monitoring overview page, click **Dashboards** from the left-side navigation menu.



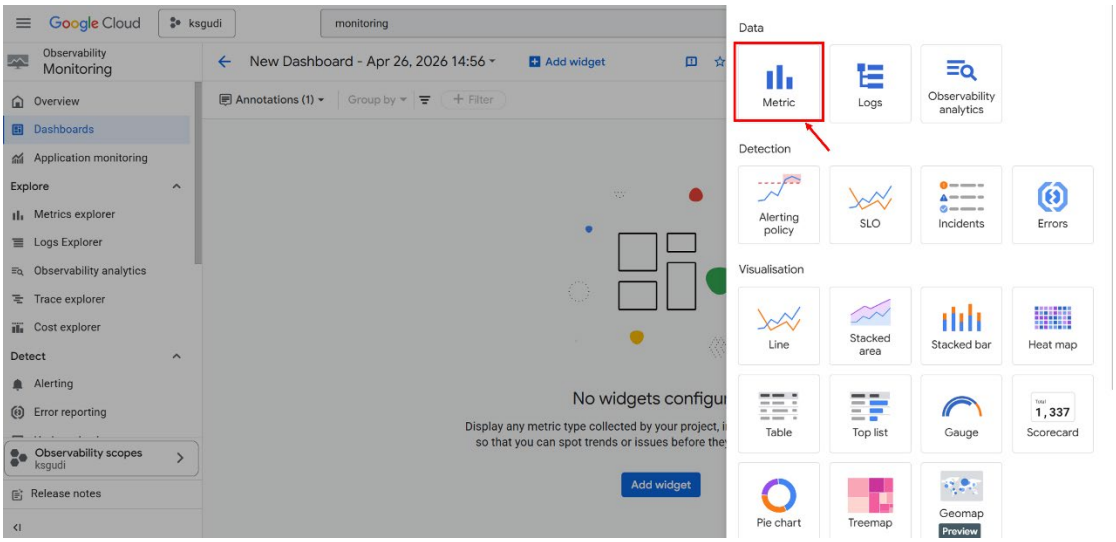
Step 6: In the Dashboards page, click **Create custom dashboard**.



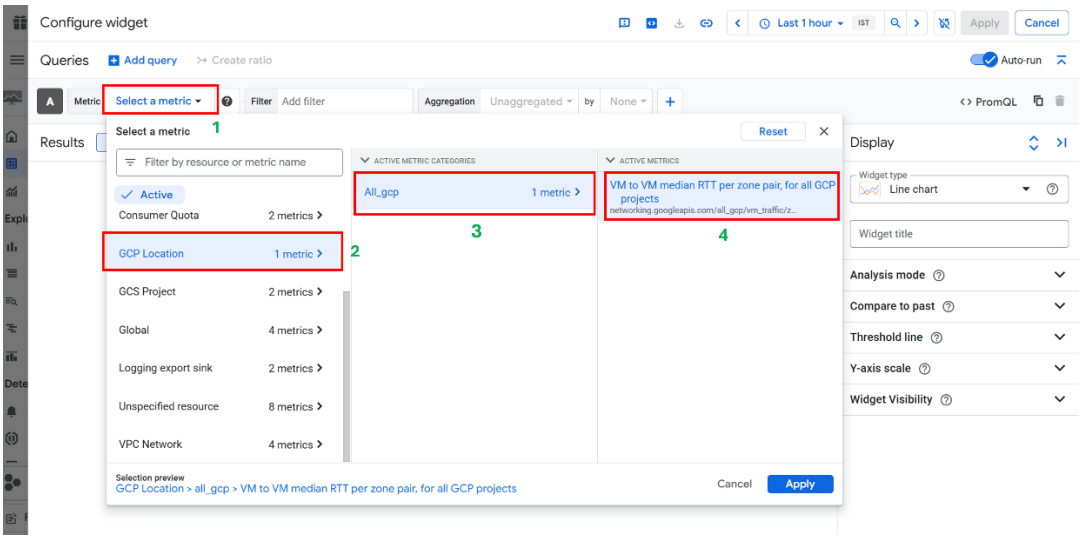
Step 7: In the new dashboard page, click **Add widget** to add a monitoring chart.



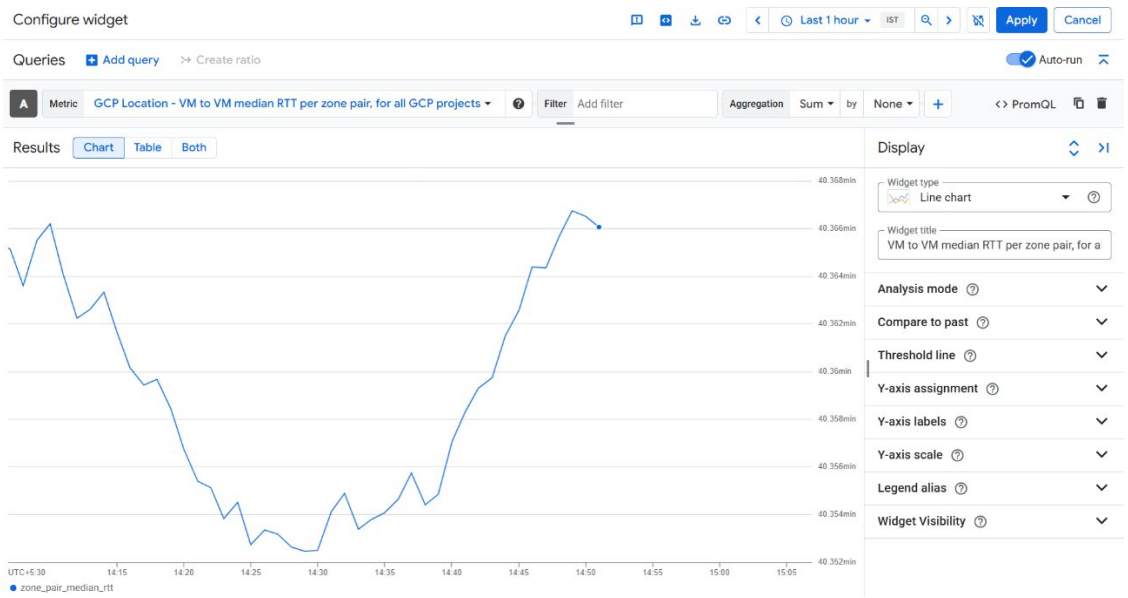
Step 8: Select **Metric** from the widget options.



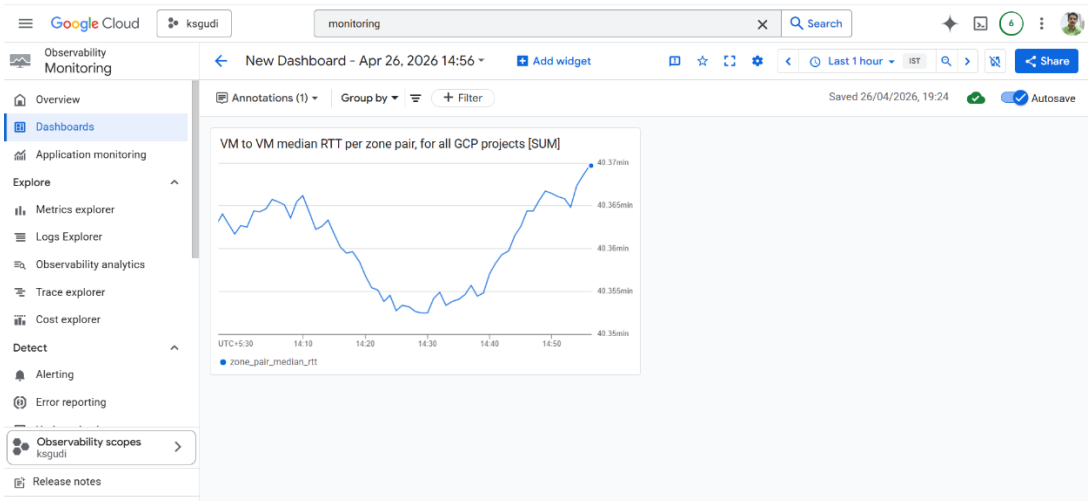
Step 9: Click **Select a metric**, choose **GCP Location**, select **All_gcp**, and then select **VM to VM median RTT per zone pair, for all GCP projects** and Click **Apply.**



Step 10: Verify that the selected metric graph is displayed and click **Apply** to add the chart to the dashboard.



Step 11: Verify that the selected metric chart is added to the dashboard and the dashboard is saved automatically.



To make the monitoring more effective, the following activities can also be performed:

1. Create a **Cloud SQL instance**, run basic SQL queries, and monitor database metrics such as CPU utilization, connections, and storage usage.

2. Create an **alert policy** by setting a threshold value for any metric, so that Cloud Monitoring can notify when resource usage crosses the defined limit.

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