

# Task 2 - Cloud Monitoring and Alerts

## Objective

- To set up monitoring and alerts for a cloud-based application/resource using **Google Cloud Monitoring**.

## Deliverables

- Uptime Check for a public file hosted on Google Cloud Storage (GCS)
- Alert Policy configured to trigger on Uptime Check failure
- Email notification set up and tested
- Dashboard created to visualize uptime data

## Tools Used

- Google Cloud Monitoring
- Google Cloud Console
- Google Cloud Storage (from Task 1)
- Gmail for receiving alerts
- GitHub for version control and documentation

## Steps Followed

1. Enabled Monitoring API
2. Created Uptime Check
3. Set Up Alert Policy
4. Dashboard Creation
5. Tested Alert

## Screenshots

- Uptime Check Setup

Google Cloud bucket-create Search (/) for resources, docs, products, and more

Observability Monitoring Edit Uptime Check

Overview Dashboards Application monitoring Explore Metrics explorer Logs explorer Log analytics Trace explorer Detect Alerting Error reporting Uptime checks Synthetic monitoring Observability Scopes bucket-create Release Notes

Target

Response Validation (optional)

Alert & Notification (optional)

Review

Save Cancel

Enter a name for the uptime check.

Title \* task1check

User Labels

Key Value (optional)

+ Add user label

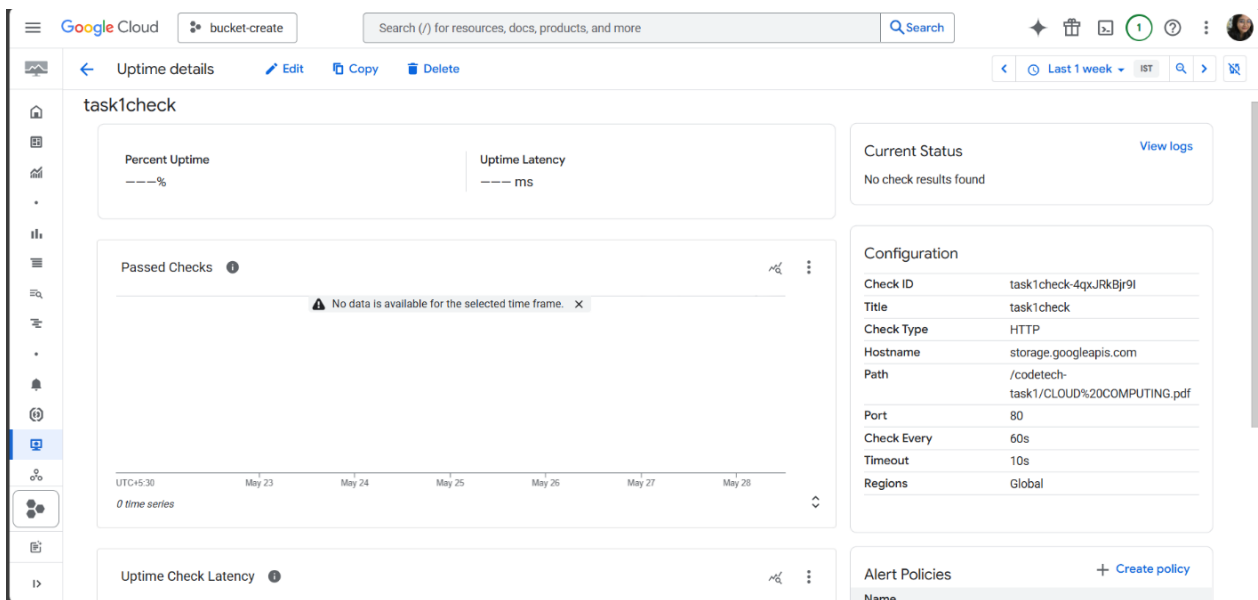
^ Hide user labels

Test uptime check (optional)

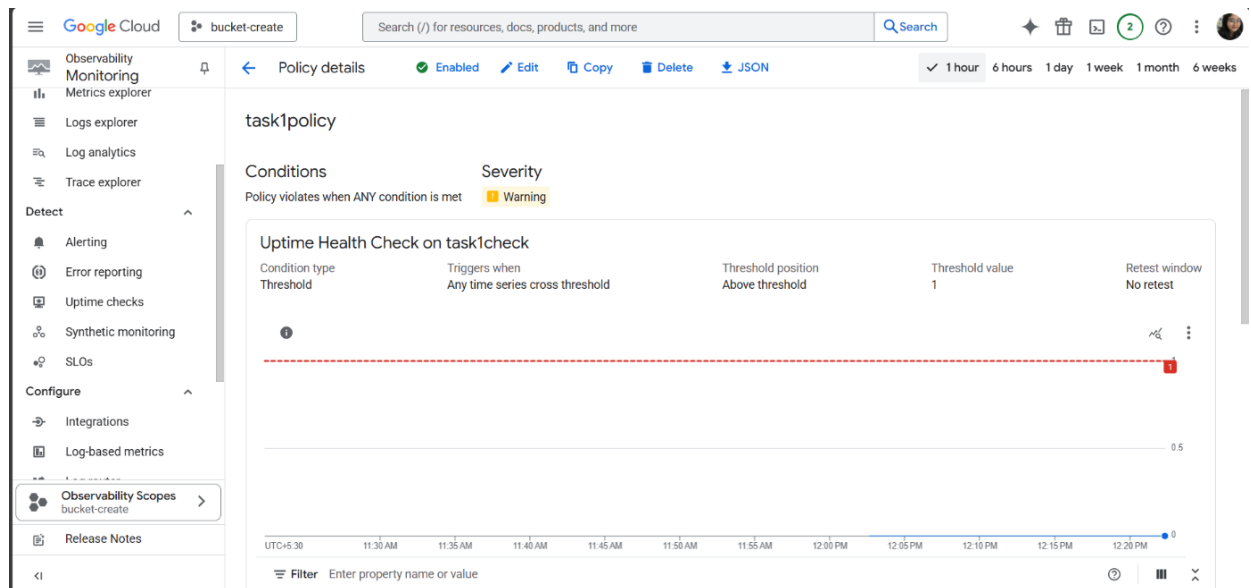
We recommend that you test your uptime check before creating.

Responded with "200 (OK)" in 87 ms.

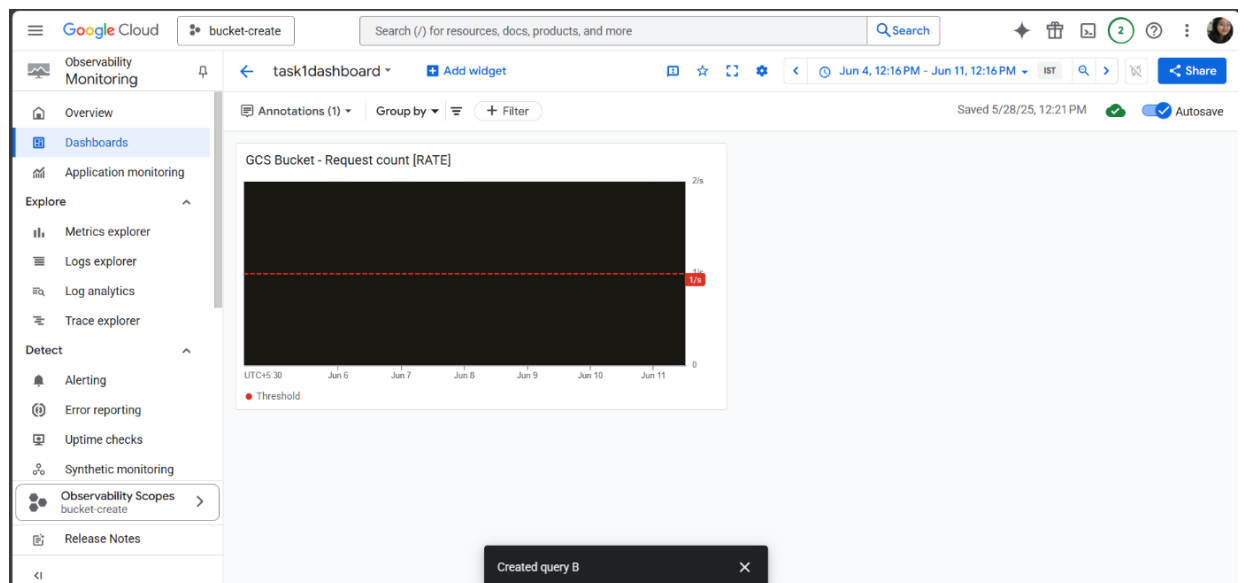
Test View Details



- Alert Policy Config



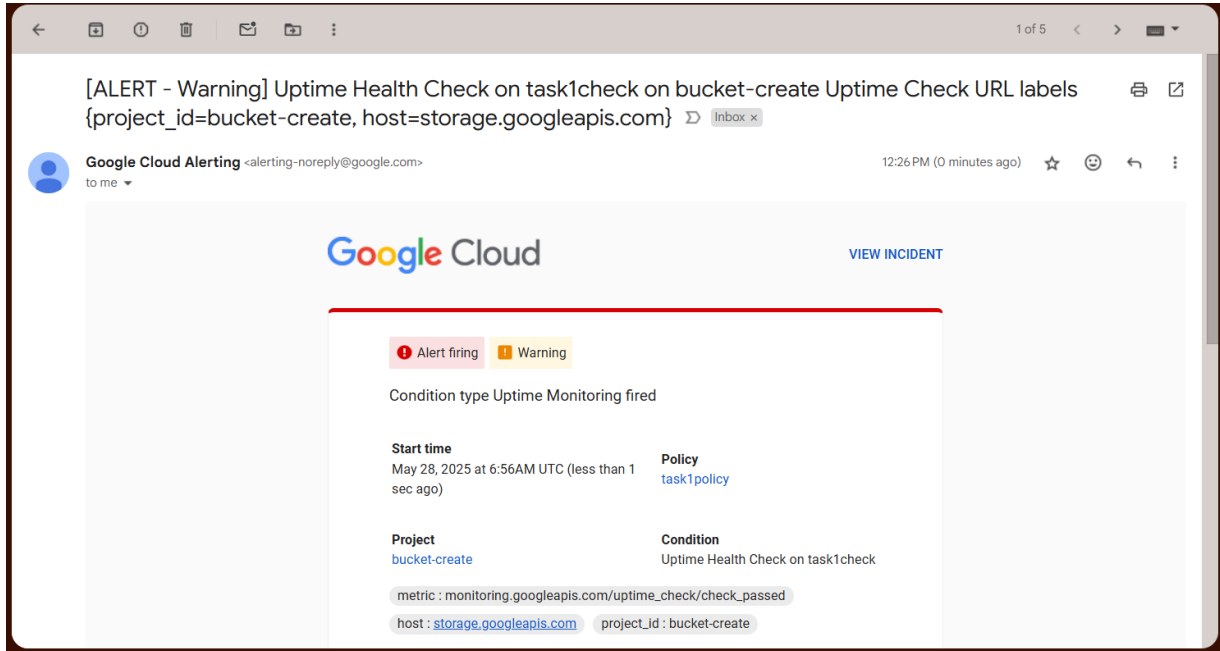
- Dashboard Setup



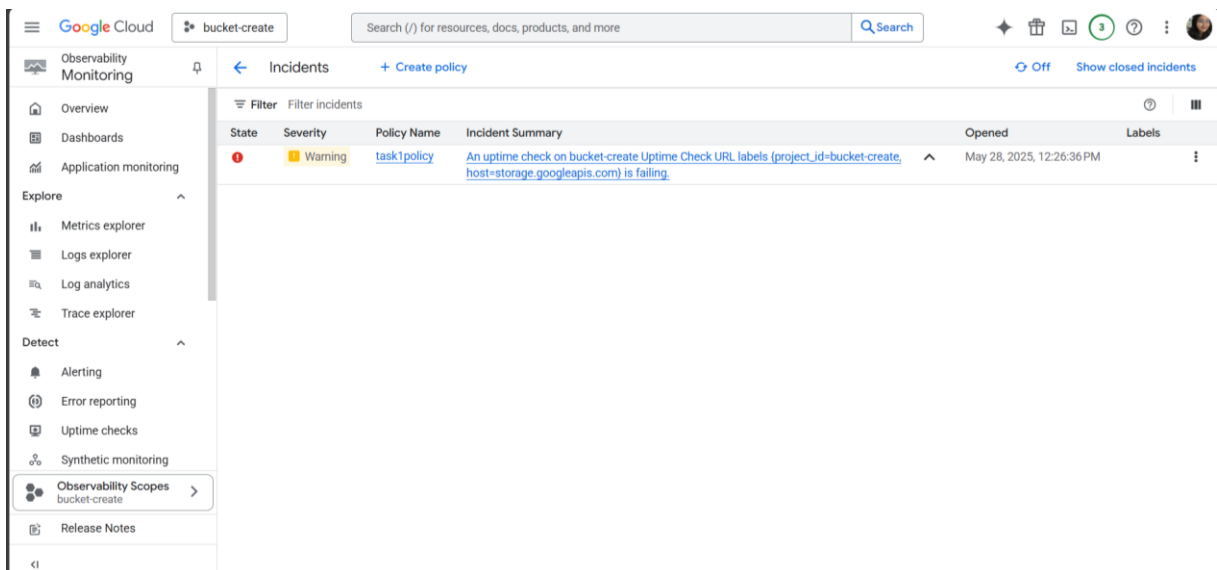
## Alert Testing

Temporarily deleted CLOUD COMPUTING.pdf from codetech-task1 bucket.

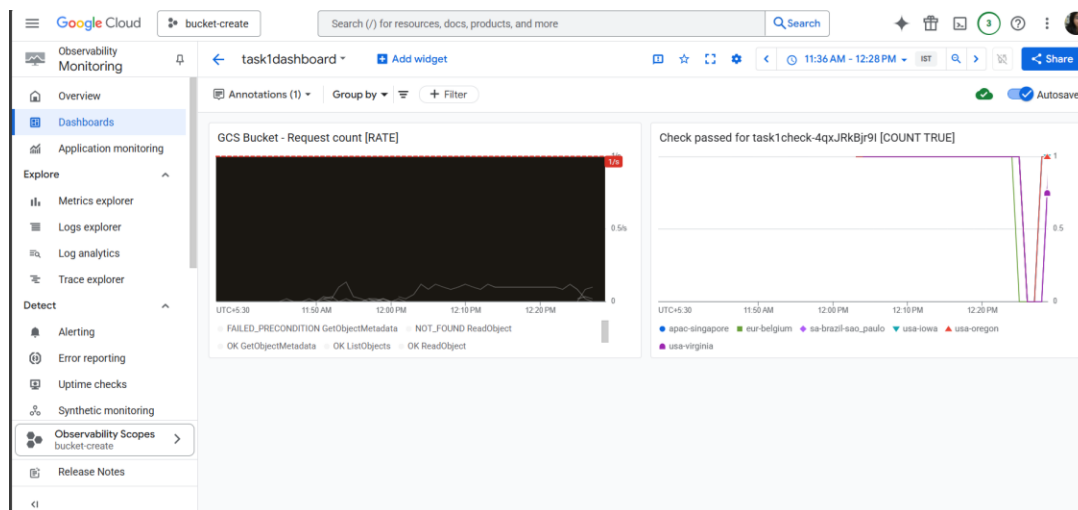
- Alert Notification Mail



- Alerting Incident



- Dashboard after alert triggered



## Conclusion

The monitored GCS file [CLOUD COMPUTING.pdf](#) is publicly accessible in incognito mode.



## Public URL's

- [Uptime Details](#)
- [Alerting Policy](#)
- [Dashboard](#)