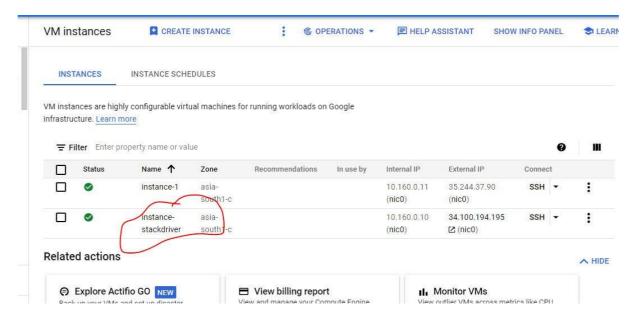
Module 7 ----- Assignment

Create an instance and install apache2 in it.



Update the system and install apache2.

```
arpitacs0024@instance-stackdriver:~$ sudo apt-get update
Get:1 http://security.debian.org/debian-security bullseye-security InRelease [44.1 kB]
Hit:2 http://deb.debian.org/debian bullseye InRelease
Get:3 http://packages.cloud.google.com/apt cloud-sdk-bullseye InRelease [6778 B]
Get:4 http://deb.debian.org/debian bullseye-updates InRelease [39.4 kB]
Get:5 http://packages.cloud.google.com/apt google-cloud-packages-archive-keyring-bullseye InRelease
Get:6 http://deb.debian.org/debian bullseye-backports InRelease [44.2 kB]
Ign:7 http://packages.cloud.google.com/apt google-cloud-monitoring-bullseye InRelease
Get:8 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable InRelease [5533 B
Err:9 http://packages.cloud.google.com/apt google-cloud-monitoring-bullseye Release
    404 Not Found [IP: 142.251.42.46 80]
Get:10 http://packages.cloud.google.com/apt cloud-sdk-bullseye/main amd64 Packages [129 kB]
Get:11 http://packages.cloud.google.com/apt google-cloud-packages-archive-keyring-bullseye/main am
[389 B]
Get:12 http://deb.debian.org/debian bullseye-backports/main Sources.diff/Index [63.3 kB]
Get:13 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable/main amd64 Packages.cloud.google.com/apt google-compute-engine-bullseye-stable/main amd64 Packages.cloud.google.com/apt google-compute-engine-bullseye-stable/main amd64 Packages.cloud.google.com/apt google-compute-engine-bullseye-stable/main amd64 Packages.cloud.google.com/apt google-compute-engine-bullseye-stable/main amd64 Packages.cloud.google-compute-engine-bullseye-stable/main amd64 Packages.cloud.google-compute-engine-
Get:14 http://deb.debian.org/debian bullseye-backports/main amd64 Packages.diff/Index [63.3 kB]
Get:15 http://deb.debian.org/debian bullseye-backports/main Translation-en.diff/Index [63.3 kB]
diff [17.4 kB]
Get:16 http://deb.debian.org/debian bullseye-backports/main Sources T-2022-06-08-0803.17-F-2022-06-
```

```
arpitacs0024@instance-stackdriver:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.53-1~deb1lu1).
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
arpitacs0024@instance-stackdriver:~$ []
```

Create an app service on any technology.

Deploy a nodejs application on App Engine standard using gcloud.

Clone this repository.

```
arpitacs0024@cloudshell:-$ cloudshell open --repo url "https://github.com/GoogleCloudPlatform/nodejs-docs-samples" --page "editor" --force new clone 2022/06/07 14:37:37 Cloning https://github.com/GoogleCloudPlatform/nodejs-docs-samples into /home/arpitacs0024/cloudshell_open/nodejs-docs-samples-5 cloning into '/home/arpitacs0024/cloudshell_open/nodejs-docs-samples-5 cloning into '/home/arpitacs0024/cloudshell open/nodejs-docs-samples-5 cloning into '/home/arpitacs0024/cloudshell
```

Run the below command.

```
arpitacs0024@cloudshell:~/cloudshell_open/nodejs-docs-samples-5/appengine/hello-world/standard$ npm install

added 158 packages, and audited 159 packages in 7s

28 packages are looking for funding
    run 'npm fund' for details

found 0 vulnerabilities
    arpitacs0024@cloudshell:~/cloudshell_open/nodejs-docs-samples-5/appengine/hello-world/standard$ npm start

> appengine-hello-world@0.0.2 start
> node app.js

App listening on port 8080
Press Ctrl+C to quit.
```

Now, Deploy the app using below command.

```
arpitacs0024@cloudshell:~/cloudshell open/nodejs-docs-samples-5/appengine/hello-world/standard% gcloud config set project prac-project-351313
Updated property [core/project].
arpitacs0024@cloudshell:~/cloudshell open/nodejs-docs-samples-5/appengine/hello-world/standard (prac-project-351313)% gcloud app deploy
Initializing App Engine resources...done.
Services to deploy:

descriptor: [/home/arpitacs0024/cloudshell_open/nodejs-docs-samples-5/appengine/hello-world/standard/app.yaml]
source: [/home/arpitacs0024/cloudshell_open/nodejs-docs-samples-5/appengine/hello-world/standard]
target project: [prac-project-351313]
target service: [default]
target version: [202206076144507]
target url: [https://prac-project-351313.uc.r.appspot.com]
target service account: [App Engine default service account]
```

To view your application in the web browser.

```
arpitacs0024@cloudshell:~/cloudshell_open/nodejs-doos-samples-5/appengine/hello-world/standard (prac-project-351313)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://prac-project-351313.uc.r.appspot.com
```



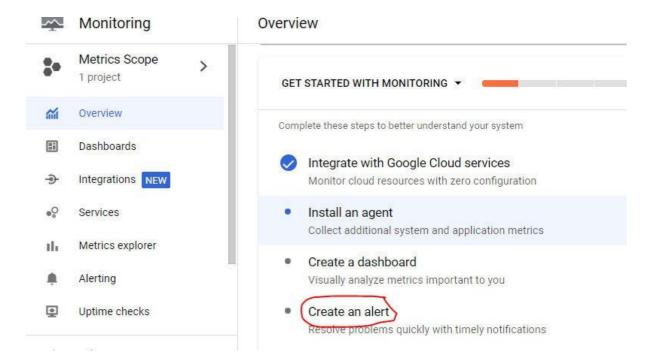
Hello, world!

Using stack driver configure the following things:

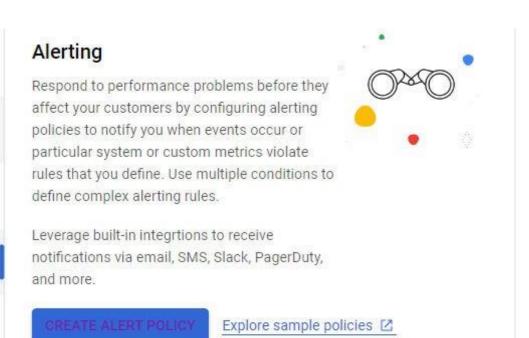
Trigger an email, if the apache service goes down (should not wait for instance to stop responding, should respond when apache service goes down).

Go to stack driver > Monitoring

Create an alert.



Now, Create an alert policy.

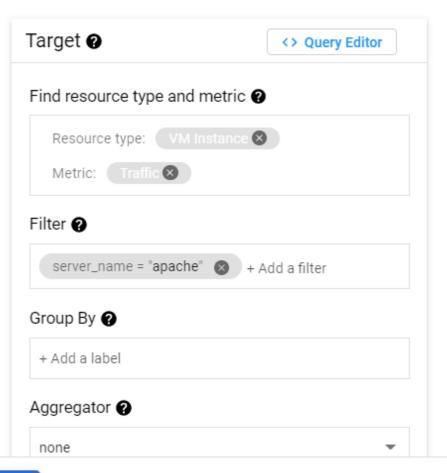


Select metric VM instance.

Manage using API

VM Instance - Traffic for apache [RATE]

METRIC UPTIME CHECK PROCESS HEALTH



ADD

CANCEL

What do you want to track?

Conditions Conditions describe when apps and services are considered unhealthy. When conditions are met, they trigger alerting policy violations. Condition Actions

VM Instance - Traffic for apache [RATE]

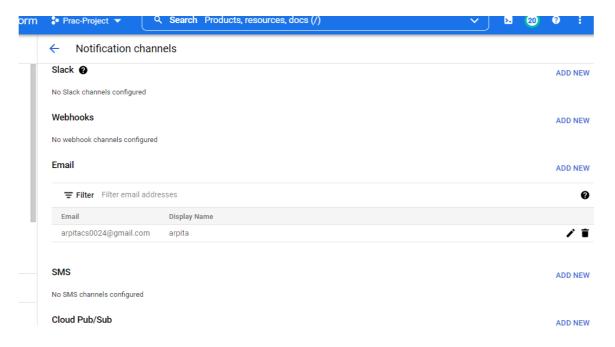
Violates when: Any agent googleapis.com/apache/traffic stream is above a threshold of 9

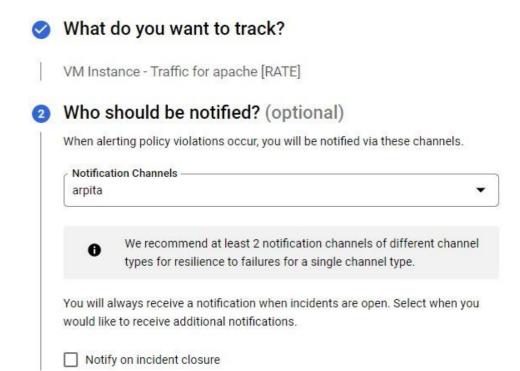
ADD CONDITION

NEXT

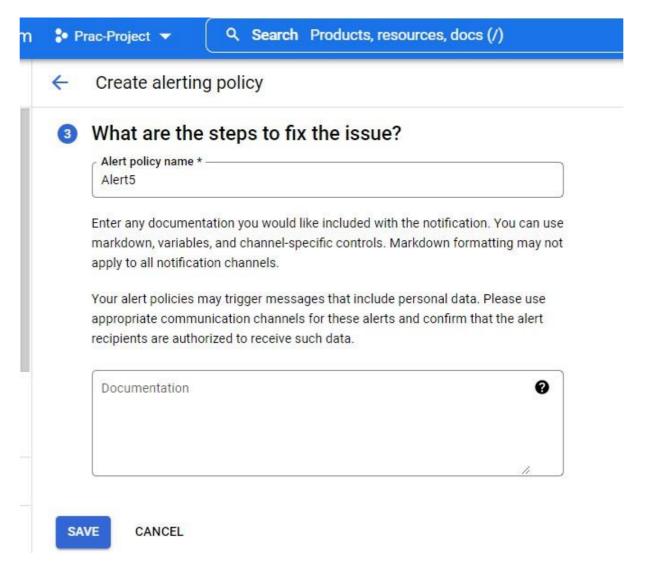
Who should be notified? (optional)

Add notification channel and add email.

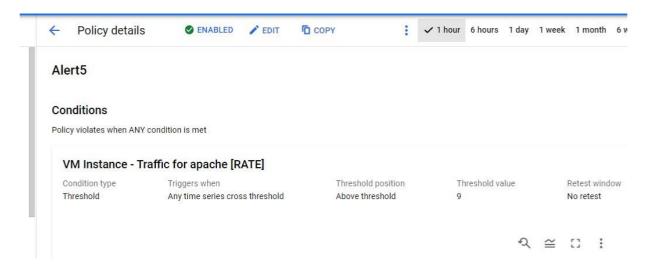




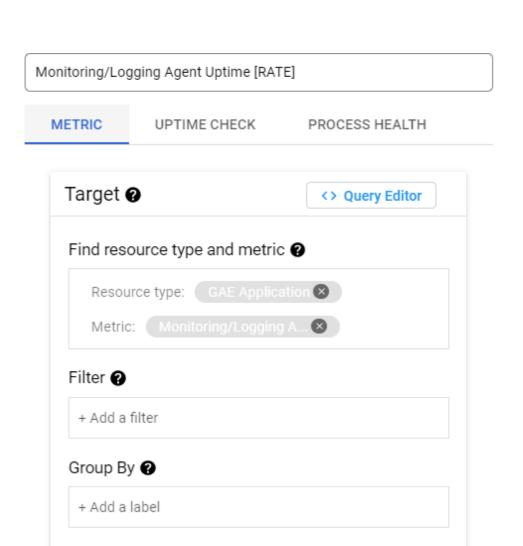
Name the alert.



Policy created for apache service.



Trigger an email when app service goes down.



ADD

CANCEL

Aggregator ?

none