

Question 3

- Navigate to create instance
- Assign name and select any suitable LinuxOS (Ubuntu 18.04 in this example)
- Allow HTTP Traffic as it is a web server in which Apache will be installed
- In the startup script insert the below code -

```
#!/bin/bash
apt-get update
apt-get install -y apache2
curl -sSO https://dl.google.com/cloudagents/install-monitoring-agent.sh
sudo bash install-monitoring-agent.sh
curl -sSO https://dl.google.com/cloudagents/install-logging-agent.sh
sudo bash install-logging-agent.sh
rm /var/www/html/index.html
echo "<h1>Hi I am Krutik!</h1>" >> /var/www/html/index.html
```
- To stop the instance from CLI -

```
gcloud compute instances stop krutik-gcp2-q3 --zone us-central1-a
```
- This stops the running instance and thus the page can no longer be visited
- To start the instance from CLI -

```
gcloud compute instances start krutik-gcp2-q3 --zone us-central1-a
```
- This makes the startup script rerun and hence once again the startup script runs to install the necessary components and serve the components
- And thus we can see the page again



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Stackdriver Logging

Logs Viewer

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GCE VM Instance, krutik-gcp2-q3 All logs Any log level Last 7 days Jump to now

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```

2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] e820: BIOS-provided physical RAM map:
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] x86/fpu: Enabled xstate features 0x7, cont...
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_siz...
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: '...
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: '...
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: '...
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] Centaur CentaurHauls
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] AMD AuthenticAMD
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] Intel GenuineIntel
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] KERNEL supported cpus:
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-4.1...
2019-07-22 16:00:04.000 IST Jul 22 10:30:04 krutik-gcp2-q3 kernel: [ 0.000000] Linux version 4.15.0-1036-gcp (build@lcy0...
2019-07-22 16:00:01.304 IST compute.instances.insert {"event_timestamp_us":"1563791401304518","actor":{"user":"krutik.me...
2019-07-22 16:00:01.125 IST Compute Engine insert us-central1-a:krutik-gcp2-q3 krutik.menkudle@quantiphi.com {"@type":...
2019-07-22 15:59:35.594 IST compute.instances.insert {"operation":{"name":"operation-1563791374245-58e428d5d5ccbc-ef8610a...
2019-07-22 15:59:34.347 IST Compute Engine insert us-central1-a:krutik-gcp2-q3 krutik.menkudle@quantiphi.com {"@type":...

```

No older entries found matching current filter in the last 7 days. Load older logs

Initial Loading of Instance

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Stackdriver Logging

Logs Viewer

Filter by label or text search

GCE VM Instance, krutik-gcp2-q3 All logs Any log level Last 7 days Jump to now

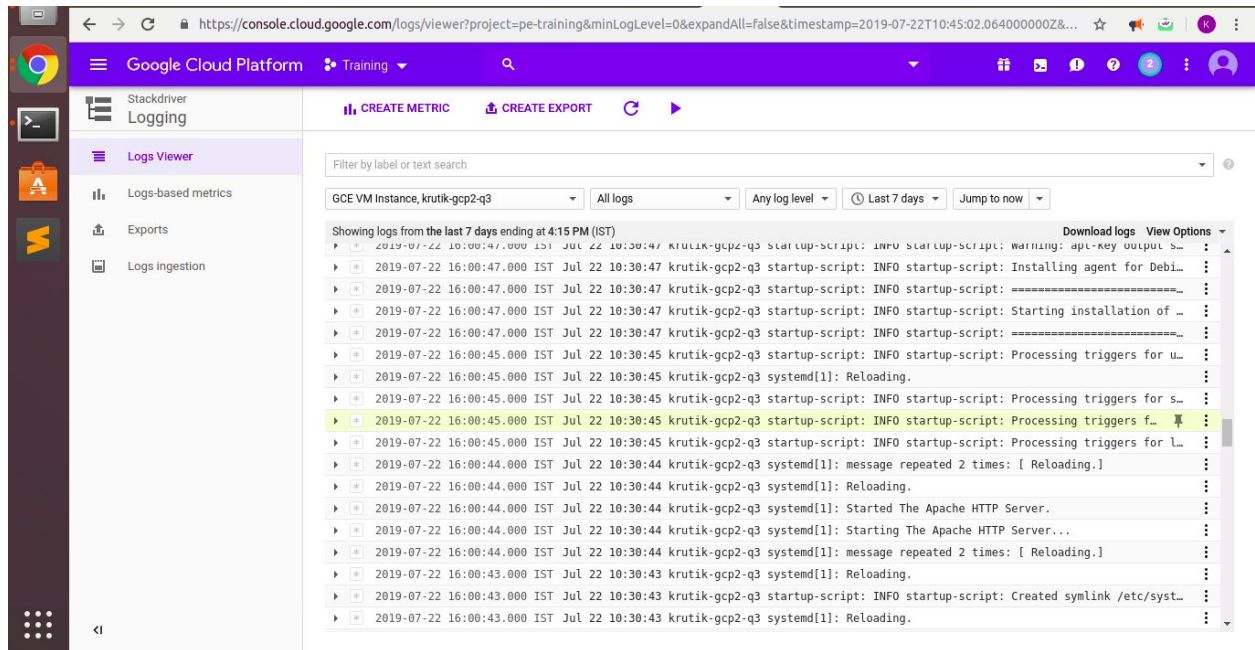
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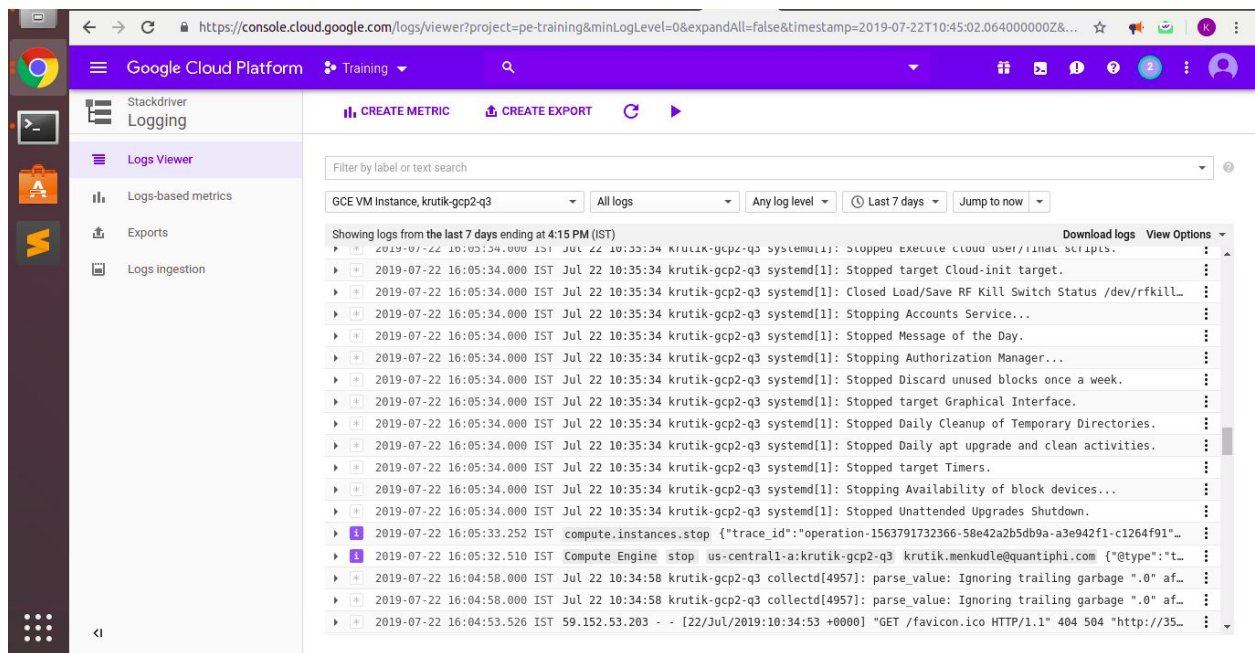
```

2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:16 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:15 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:14 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:13 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:12 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:11 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:10 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:9 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:8 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:7 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:6 http://security.ubu...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:5 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:4 http://archive.canon...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Get:3 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 startup-script: INFO startup-script: Hit:1 http://us-central1...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 systemd-resolved[870]: Server returned error NXDOMAIN, mitigat...
2019-07-22 16:00:29.000 IST Jul 22 10:30:29 krutik-gcp2-q3 systemd-resolved[870]: Server returned error NXDOMAIN, mitigat...

```



Startup Script Executing At Booting



Stop Instance

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2019-07-22 16:10:25.275	IST	Mon Jul 22 10:40:14.957772 2019	[core:notice] [pid 1128:tid 140186129185728] AH00094: Comm...	...
2019-07-22 16:10:25.275	IST	Mon Jul 22 10:40:14.940480 2019	[mpm_event:notice] [pid 1128:tid 140186129185728] AH00489:
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Started Update UTM about System Runlevel Changes.	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Starting Update UTM about System Runlevel Changes...	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Starting Execute cloud user/final scripts...	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Reached target Graphical Interface.	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Reached target Multi-User System.	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Started OpenBSD Secure Shell server.	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Starting OpenBSD Secure Shell server...	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 systemd[1]: Started Pollinate to seed the pseudo random number...	...
2019-07-22 16:10:25.000	IST	Jul 22 10:40:25	krutik-gcp2-q3 pollinate[913]: WARNING: Network communication failed [0] % To...	...
2019-07-22 16:10:23.000	IST	Jul 22 10:40:23	krutik-gcp2-q3 systemd[1]: Started LSB: data collector for Treasure Data.	...
2019-07-22 16:10:23.000	IST	Jul 22 10:40:23	krutik-gcp2-q3 google-fluentd[898]: Starting google-fluentd 1.6.14: * google...	...
2019-07-22 16:10:21.284	IST	compute.instances.start	{ "actor": { "user": "krutik.menkudle@quantiphi.com", "resource": { "name": "...	...
2019-07-22 16:10:21.145	IST	Compute Engine start	us-central1-a:krutik-gcp2-q3 krutik.menkudle@quantiphi.com { "type": "...	...
2019-07-22 16:10:21.000	IST	Jul 22 10:40:21	krutik-gcp2-q3 google_accounts_daemon[1233]: Adding user chinmay_dorlikar to
2019-07-22 16:10:21.000	IST	Jul 22 10:40:21	krutik-gcp2-q3 google-accounts: INFO Adding user chinmay_dorlikar to the Goog...	...
2019-07-22 16:10:19.000	IST	Jul 22 10:40:19	krutik-gcp2-q3 google-accounts: INFO Adding user oke-0672e30735bcc1ecca57 to

Instance Start Again

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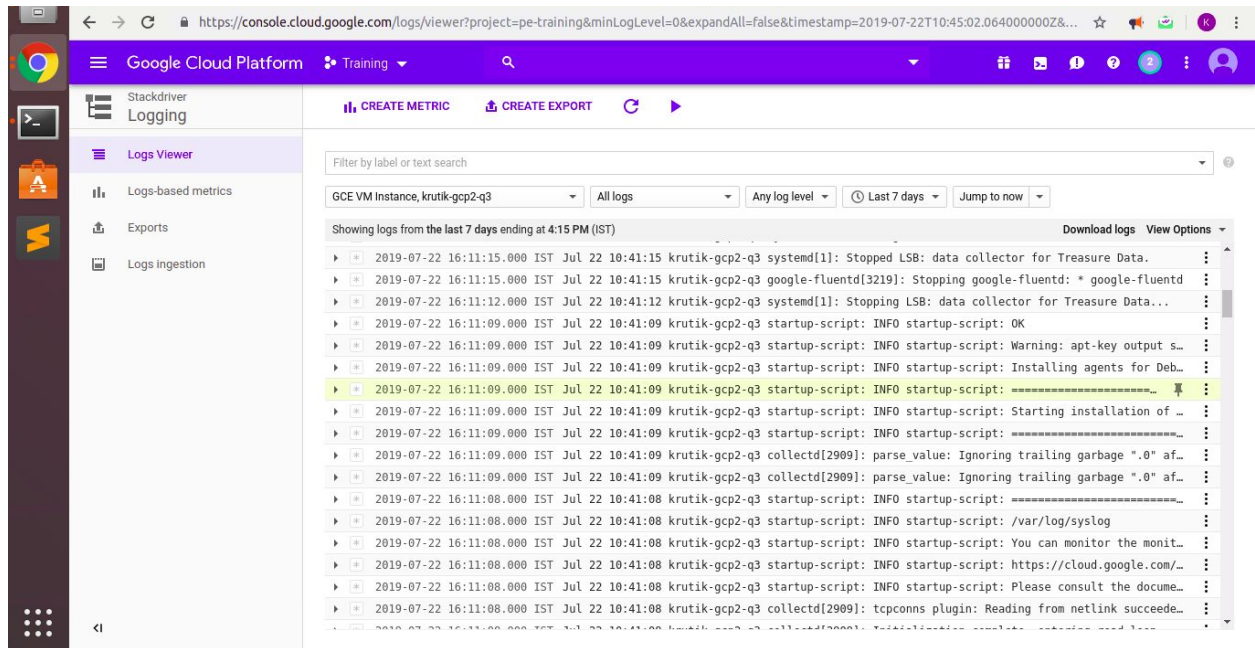
Filter by label or text search

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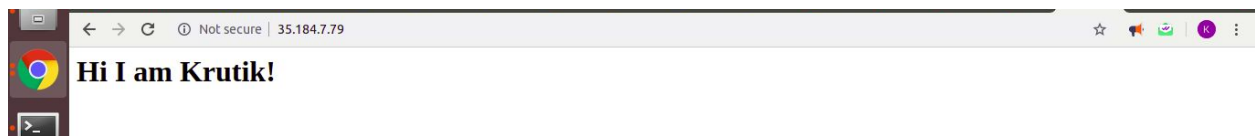
Showing logs from the last 7 days ending at 4:15 PM (IST)

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2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: apache2 is already the ne...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: Reading state information...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: Building dependency tree...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: Reading package lists...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: W: Some index files fail...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: W: Failed to fetch http://...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: W: Failed to fetch http://...	...
2019-07-22 16:11:01.000	IST	Jul 22 10:41:01	krutik-gcp2-q3 startup-script: INFO startup-script: Reading package lists...	...
2019-07-22 16:10:58.000	IST	Jul 22 10:40:58	krutik-gcp2-q3 startup-script: INFO startup-script: Could not connect to secu...	...
2019-07-22 16:10:58.000	IST	Jul 22 10:40:58	krutik-gcp2-q3 startup-script: INFO startup-script: Err:7 http://security.ubu...	...
2019-07-22 16:10:57.000	IST	Jul 22 10:40:57	krutik-gcp2-q3 startup-script: INFO startup-script: Could not connect to arch...	...
2019-07-22 16:10:57.000	IST	Jul 22 10:40:57	krutik-gcp2-q3 startup-script: INFO startup-script: Err:6 http://archive.cano...	...
2019-07-22 16:10:50.000	IST	Jul 22 10:40:50	krutik-gcp2-q3 startup-script: INFO startup-script: Hit:5 http://us-central1...	...
2019-07-22 16:10:50.000	IST	Jul 22 10:40:50	krutik-gcp2-q3 startup-script: INFO startup-script: Hit:4 http://us-central1...	...
2019-07-22 16:10:50.000	IST	Jul 22 10:40:50	krutik-gcp2-q3 startup-script: INFO startup-script: Hit:3 http://us-central1...	...
2019-07-22 16:10:27.000	IST	Jul 22 10:40:27	krutik-gcp2-q3 startup-script: INFO startup-script: Hit:2 http://packages.clo...	...
2019-07-22 16:10:27.000	IST	Jul 22 10:40:27	krutik-gcp2-q3 startup-script: INFO startup-script: Hit:1 http://packages.clo...	...
2019-07-22 16:10:27.000	IST	Jul 22 10:40:27	krutik-gcp2-q3 systemd-resolved[736]: message repeated 2 times: [Server retu...	...



Startup Script Reruns when the instance is started again



Instance running on different IP