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Question 1

Unattempted

Domain : Other

You are running a web application on a Compute Engine VM that is using the LAMP stack. There is a requirement to monitor the HTTP response latency of the application and get notified whenever the response latency reaches a defined threshold. Which GCP service will you use?

- A. Use Cloud monitoring and setup alerting policies 
- B. Use Cloud monitoring and setup uptime checks
- C. Use Cloud Trace and setup alerting policies
- D. Use Cloud Logging and setup uptime checks

Explanation:**Option A is correct**

You can use cloud monitoring to setup custom metric or log-based metric which will monitor the HTTP response latency and setup alerting policy on this metric which will send an alert when a certain threshold is reached

<https://cloud.google.com/monitoring/alerts>

Option B is incorrect because the uptime check is used to check the system availability


Options C & D are incorrect because Cloud trace is used to detect the latency issues in your application

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Domain : Other

You are working as a DevOps engineer for a startup company. Recently they deployed service on the Google Kubernetes engine which is running slow and using more resources than expected as per monitoring alerts. Which GCP service can you use to troubleshoot such an issue?

- A. Cloud Monitoring

- B. Cloud Trace
- C. Cloud Profiler 
- D. Cloud Logging

Explanation:**Option C is correct**

Cloud profiler is a Google cloud service which helps you to analyze the CPU and memory usage of your functions in the application

<https://codelabs.developers.google.com/codelabs/cloud-stackdriver-profiler/#0>

Option A is incorrect because it is used to monitor resource utilization or any custom metric

Option B is incorrect because Cloud trace is used to detect the latency issues in your application

Option D is incorrect because Cloud logging is a fully managed service which allows you to store, search and analyze logs

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Question 3**Unattempted**

Domain : Other

You are working as a DevOps engineer for a large enterprise. Recently there was an update deployed for an application running on the Compute engine server which caused a memory leak issue. Due to this, the compute engine memory was full leading to an outage. How will you avoid this issue in the future by setting up a proper alerting solution for memory metric, so the SRE teams get notified in time?

- A. Install Cloud Logging agent in VM to monitor memory usage and setup alerting policies to notify the SRE team
- B. Install Cloud monitoring agent in VM to monitor memory usage and setup alerting policies to notify the SRE team 
- C. Install Cloud monitoring agent in VM to monitor memory usage and setup uptime checks policies to notify the SRE team

- D. **Memory metrics are by default available for a VM, just setup alerting policies to notify the SRE team**

Explanation:

Option B is correct

To monitor guest OS level metrics you need to install a Cloud monitoring agent in VM.

It provides metrics like memory and disk usage. After configuring the Cloud monitoring agent you can set up alerting policies in Cloud monitoring to notify the SRE team.

https://cloud.google.com/monitoring/api/metrics_agent

Option A is incorrect because Cloud logging agent is used for logging application logs or any other logs to Cloud logging

Option C is incorrect because the uptime check is used to check the system availability

Option D is incorrect because by default memory metrics are not available on Cloud monitoring

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Question 4

Unattempted

Domain : Other

You are working for a Startup company as a Solutions Architect. Recently an application was deployed to production. There is a requirement to monitor the key performance indicators like CPU, memory, and Disk IOPS for the application, and also a dashboard needs to be set up where metrics are visible to the entire team. Which service will you use?

- A. **Use Cloud monitoring to monitor key performance indicators and create Dashboards with key indicators that can be used by the team** ✓
- B. Use Cloud Logging to monitor key performance indicators and create Dashboards with key indicators that can be used by the team
- C. Use Third-party service from marketplace to monitor key performance indicators and create Dashboards with key indicators that can be used by the team

- D. **Use Cloud Trace to monitor key performance indicators and create Dashboards with key indicators that can be used by the team**

Explanation:**Option A is correct**

Cloud monitoring provides detailed visibility into the application by monitoring several key performance indicators like CPU, memory and disk IOPS, etc.

You can create dashboards to visualize the performance and also can share with the team to provide detailed visibility into the application performance.

Option B is incorrect because Cloud logging is a fully managed service which allows you to store, search and analyze logs

Option C is incorrect because there is no need to use a third-party service you can use Cloud monitoring for such requirements

Option D is incorrect because Cloud trace is used to detect the latency issues in your application

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Domain : Other

You are working as a DevOps engineer for an enterprise. Recently one of the microservices was facing intermittent database connectivity issues. This issue was rarely seen and whenever this problem occurs it triggers a few lines in the log file. There is a requirement to set up alerting for such a scenario. What will you do?

- A. **Use Cloud trace and setup alerting policies**
- B. **Use Cloud logging to set up log-based metrics and set up alerting policies.** ✓
- C. **Manually monitor the log file**
- ✓ D. **Use Cloud profiler to set up log-based metrics and set up alerting policies.** ✗

Explanation:**Option B is correct**

You can set up a log-based metric that is based on the entries in the log files. For example, you can count the number of occurrences of a specific line entry in the log file and create a metric based on the count. You can also set up alerting policies on the metric if the count goes beyond any threshold value.

<https://cloud.google.com/logging/docs/logs-based-metrics>

Option A is incorrect because Cloud trace is used to detect the latency issues in your application

Option C is incorrect because you need to automate this procedure and also setup required alerting

Option D is incorrect because Cloud Profiler helps you to analyze the CPU and memory usage of your functions in the application

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