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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 132 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 132

Topic #: 1

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You have deployed an application on a single Compute Engine instance. The application writes logs to disk. Users start reporting errors with the application. You want to diagnose the problem. What should you do?

- A. Navigate to Cloud Logging and view the application logs.
- B. Connect to the instance's serial console and read the application logs.
- C. Configure a Health Check on the instance and set a Low Healthy Threshold value.
- D. Install and configure the Cloud Logging Agent and view the logs from Cloud Logging.

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by [mehlaamit](#) at Aug. 11, 2020, 7:20 p.m.

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[hiteshrup](#) [Highly Voted](#) 4 years, 1 month ago

Answer: D

App logs can't be visible to Cloud Logging until we install Cloud Logging Agent on GCE

upvoted 27 times

ashrafh 3 years, 2 months ago

Hi all

check this document and decide :)

<https://cloud.google.com/logging/docs/agent/logging/installation>

upvoted 3 times

hiteshrup 4 years, 1 month ago

Continuation of reasoning.

If Problem statement is not having this statement "The application writes logs to disk", then we might assume that application is writing logs on Cloud Logging with google-fluentd agent API library. However, problem statement is clearly mentioned that logs are writing down on disk, we need agent installed on GCE to fetch those logs from disk to Cloud Logging. If that is not desirable, then option B is left

upvoted 8 times

hiteshrup 4 years, 1 month ago

(Correction) Answer is A after rethinking and doing some research by focusing words "App Engine", which has by default enabled Request Logs which has App logs on each request and those logs are enabled for Cloud Logging .. https://cloud.google.com/appengine/docs/standard/python/logs#request_logs_vs_application_logs

upvoted 3 times

rezavage 4 years, 1 month ago

Cloud logging without agent only works for App engine as you stated . but the question is about the compute engine which has to be equipped first with Logging Agent in order to write logs into Cloud Logging. so based your assumption the correct answer is "D"

upvoted 3 times

Eshkrkrkr 3 years, 11 months ago

Wrong! Request Logs has the LIST of App logs and ONLY associated with that request! Read the links you provide!

upvoted 2 times

cuban123 3 years, 11 months ago

you must still install the agent:

https://cloud.google.com/error-reporting/docs/setup/compute-engine#using_logging

upvoted 1 times

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ESP_SAP Highly Voted 4 years, 2 months ago

Correct Answer is (D):

In its default configuration, the Logging agent streams logs from common third-party applications and system software to Logging; review the list of default logs. You can configure the agent to stream additional logs; go to Configuring the Logging agent for details on agent configuration and operation.

It is a best practice to run the Logging agent on all your VM instances. The agent runs under both Linux and Windows. To install the Logging agent, go to Installing the agent.

<https://cloud.google.com/logging/docs/agent>

upvoted 18 times

sapguru 4 years, 2 months ago

Cloud logging enabled by default for compute engine

upvoted 1 times

csrazdan 2 years, 3 months ago

Do you mean the logging agent is installed by default? It depends on the OS you decide. For example, it is installed in Ubuntu but not on RedHat or Windows. Besides installing of the agent is not enough. You have to configure and let the agent know where your application is writing the logs on the disk so that it can monitor and stream the log to cloud monitoring. D is the correct answer

upvoted 1 times

ESP_SAP 4 years, 1 month ago

CORRECTION.

Correct Answer is (A):

Activity logging is enabled by default for all Compute Engine projects.

You can see your project's activity logs through the Logs Viewer in the Google Cloud Console:

In the Cloud Console, go to the Logging page.
Go to the Logging page

When in the Logs Viewer, select and filter your resource type from the first drop-down list.
From the All logs drop-down list, select `compute.googleapis.com/activity_log` to see Compute Engine activity logs.
https://cloud.google.com/compute/docs/logging/activity-logs#viewing_logs

Besides:

Activity logs are provided as part of the Cloud Logging service. For more information about Logging in general, read the Cloud Logging documentation.

<https://cloud.google.com/compute/docs/logging/activity-logs>
upvoted 11 times

babusartop17 3 years, 2 months ago

I feel sorry for the woman in your life.

upvoted 20 times

DamonSalvatore 3 years, 1 month ago

Haha! That was funny

   upvoted 2 times

  **mexblood1** 4 years, 1 month ago

Activity Logs do not include 2rd party application logs. Activity logs are more related to operations and changes in the infrastructure. This question is tricky, I think it's either D or B, because if it's only an application on a single instance, you can connect to the instance and read the application logs directly and you save the cost of logging agent.

   upvoted 9 times

  **mexblood1** 4 years, 1 month ago

Maybe I was assuming serial console is the same than system console, technically I guess they're not the same, hence I guess D will be my chosen answer.

   upvoted 1 times

  **ESP_SAP** 4 years, 1 month ago

Additional information about VM Image for AWS EC2:

The Logging agent streams logs from your VM instances and from selected third-party software packages to Cloud Logging. It is a best practice to run the Logging agent on all your VM instances.

The VM images for Compute Engine and Amazon Elastic Compute Cloud (EC2) don't include the Logging agent, so you must complete these steps to install it on those instances. The agent runs under both Linux and Windows.



If your VMs are running in Google Kubernetes Engine or App Engine, the agent is already included in the VM image, so you can skip this page.

   upvoted 3 times

  **magistrum** 3 years, 9 months ago

This points to D then

   upvoted 4 times

  **C0D3LK** **Most Recent**  1 month, 2 weeks ago

Selected Answer: D

Questions are tricky but let's reiterate this question. Hints are that there's an error in the application and that log are written to disk. Which means, it continues to write to the disk where the instance is functional. Therefore, correct method should be to install the agent and then analyze further on the output of the logs. So, answer is D

   upvoted 1 times

  **ccpmad** 4 months, 4 weeks ago

Selected Answer: B

This question is from 2020, in that year there was an Logging agent, now called Legacy Logging agent. It is the Ops Agent of nowadays.

With that agent, yes, you can configurate it to send personalized logs to GCP. But I think this question says that the app is already malfunctioning, so the logs of that are in the disk. For me it is B.

   upvoted 1 times

  **ccpmad** 4 months, 3 weeks ago



for me is b, but there is a recent question 2023: 231 in examtopics.

And D answer is:

"D. Install and configure the Ops agent and view the logs from Cloud Logging."

So to pass the exam, here select D. But for me, the question is confused. Because they want to see past logs, so install ops agent will not show past logs of application.

   upvoted 1 times

  **moumou** 8 months ago

Selected Answer: D

B will be correct if we talk about VM issues (access to an instance's serial console to debug boot and networking issues, troubleshoot malfunctioning instances, interact with the GRand Unified Bootloader (GRUB), and perform other troubleshooting tasks.)

   upvoted 1 times

  **SHAAHIBHUSHANAWS** 10 months ago

Selected Answer: D

When and why do we need it? Serial console access is useful in the following situations:



When the VM is not booting: You can use serial console access to see the boot messages and identify the problem.

When the VM is hung: You can use serial console access to see what the VM is doing and try to unfreeze it.

When you need to access the VM's BIOS or UEFI: You can use serial console access to access the VM's BIOS or UEFI, which can be useful for changing settings or troubleshooting problems.

Resolving issues with the VM's operating system.

   upvoted 1 times

  **ogerber** 10 months, 2 weeks ago

Its B, App logs are not provided by default and requires to have an agent installed.

<https://cloud.google.com/compute/docs/troubleshooting/troubleshooting-using-serial-console>

   upvoted 1 times

  **Captain1212** 1 year, 1 month ago

Selected Answer: D

D makes more sense , as application writes logs to disk and to diagnose it we need the cloud logging agent

   upvoted 3 times

  **Praxii** 1 year, 5 months ago

The line "application writes logs to disk" is crucial. It means logs are not available in cloud logging to yet. Hence we need to install the logging agent to send the logs to Cloud Logging.

Answer is D

   upvoted 2 times

  **ccpmad** 4 months, 4 weeks ago

yes you are wright, so you need to see de past logs, so it is B. For the future, after installation of Cloud Logging (now Ops Agent) we will be able to see them in Cloud Logging.

  upvoted 1 times

  **MahAli** 1 year, 6 months ago

Selected Answer: D

Rethinking it again:

The serial console provides a text-based interface that allows you to view the boot-up process and access the login prompt of the instance. From there, you can troubleshoot issues, change configuration settings or perform other administrative tasks.

The serial console is a useful tool for troubleshooting issues with Compute Engine instances, especially in situations where network connectivity is not available or where the operating system is not functioning properly.


   upvoted 1 times

  **MahAli** 1 year, 6 months ago

Selected Answer: B

Errors are already on the disk, just ssh to the instance and read them

   upvoted 3 times

  **xaqanik** 1 year, 8 months ago

Selected Answer: D

To configure logging for your GCP VMs, you need to install the Cloud Logging agent on each of your instances. The Cloud Logging agent collects log data from the instance and sends it to the Cloud Logging API, where it is stored and can be viewed in the Cloud Logging console.

   upvoted 2 times

? ? FeaRoX 1 year, 8 months ago

Selected Answer: B

We need to diagnose it quickly - simply login to instance and check logs. When there's application outage, it's not good idea to install cloud agent and wait until logs appear in the Cloud Logging

? ? ? upvoted 2 times

? ? eeeee123 1 year, 8 months ago

Serial port is not used for application debugging generally. It is mainly used for boot issues, network connectivity issues, accessing VM not possible by other methods

? ? ? upvoted 1 times

? ? alain_maza 1 year, 10 months ago

logging agent is deprecated, i find this in documentation

<https://cloud.google.com/logging/docs/agent/logging/installation>

" While this agent is still supported, we recommend that you use the Ops Agent for new Google Cloud workloads and eventually transition your existing Compute Engine VMs to use the new agent. The Ops Agent, which combines the collection of metrics and logging into a single agent, is the eventual replacement for the existing agents."

so the question points to the logging agent not to the ops agent so i think correct answer is A

? ? ? upvoted 1 times

? ? romeo2 1 year, 10 months ago

Selected Answer: D

D

Installing the Cloud Logging agent on individual VMs

If your VMs are running in Google Kubernetes Engine or App Engine, the agent is already included in the VM image, so you can skip this page.

? ? ? upvoted 1 times

? ? AwesomeGCP 2 years ago

Selected Answer: D

D. Install and configure the Cloud Logging Agent and view the logs from Cloud Logging

? ? ? upvoted 1 times

? ? Charumathi 2 years ago

Selected Answer: D

D is the correct answer,

Install fluentD logging agent to compute engine and view the logs from cloud logging.

? ? ? upvoted 1 times

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