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EXAM CLOUD DIGITAL LEADER TOPIC 1 QUESTION 89 DISCUSSION

Actual exam question from Google's Cloud Digital Leader

Question #: 89

Topic #: 1

[All Cloud Digital Leader Questions]

An organization wants to migrate legacy applications currently hosted in their data center to the cloud. The current architecture dictates that each application needs its own operating system (OS) instead of sharing an OS.

Which infrastructure solution should they choose?

- A. Virtual machines
- B. Open source
- C. Serverless computing
- D. Containers

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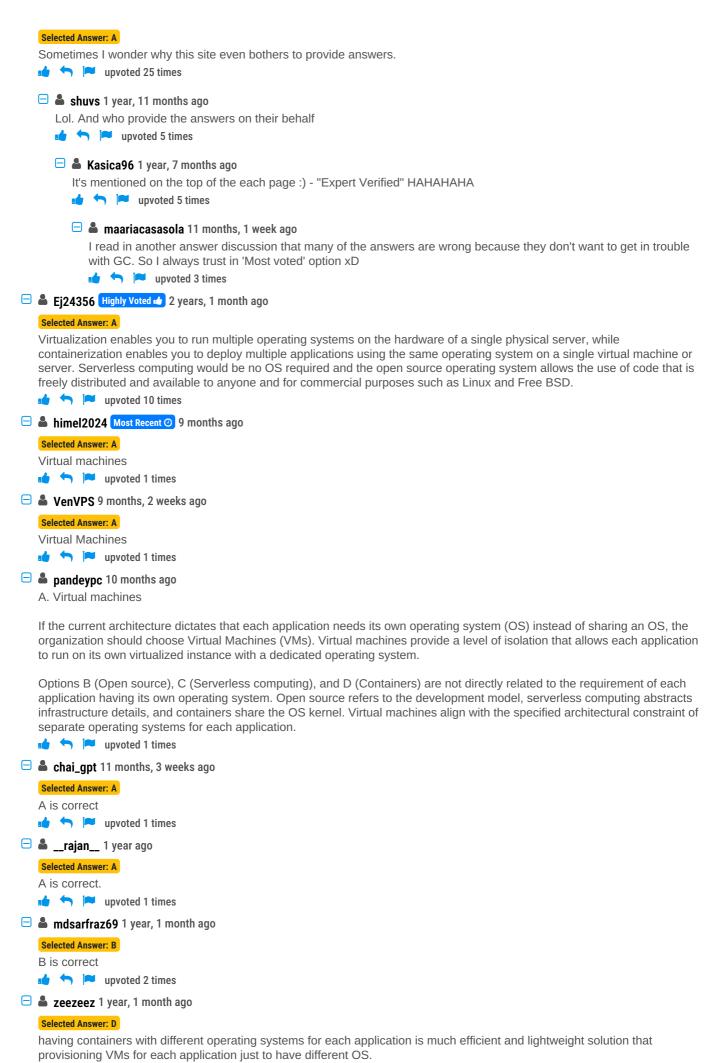
by 8 Vin1975 at Sept. 1, 2022, 7 p.m.

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Selected Answer: D

Containers are a lightweight virtualization technology that allows you to package an application and its dependencies into a single unit that can be run on any infrastructure. This makes them a good choice for migrating legacy applications that need their own OS.

The other options are not as relevant to this scenario. Option A, virtual machines, are a more heavyweight virtualization technology that can be used to run multiple operating systems on a single physical server. However, they are not as portable as containers and can be more difficult to manage. Option B, open source, is a term for software that is freely available for anyone to use and modify. It is not an infrastructure solution. Option C, serverless computing, is a cloud computing model that allows you to run code without having to manage servers. It is not a good choice for legacy applications that need their own OS.

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Selected Answer: A

Given that the organization's current architecture dictates that each application needs its own operating system (OS) rather than sharing an OS, using virtual machines (VMs) would be a more suitable choice for migrating the legacy applications to the cloud. Here's why:

Virtual Machines (VMs):

VMs provide a way to run multiple instances of operating systems on a single physical server. Each VM operates as a separate and isolated environment with its own dedicated OS, applications, libraries, and resources. In this case, where each application requires its own OS, VMs align well with the existing architecture.

Containers:

Containers are designed to share a single OS kernel while isolating applications from one another. In the case where each application requires its own OS, containers might not be the best fit, as they are designed to share a common OS.

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🖃 🏜 Erinias74 1 year, 3 months ago

Selected Answer: D

If each application requires its own operating system, using virtual machines would be less efficient and more resource-intensive, as each VM would run its own full OS.

The correct option is D. Containers

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Selected Answer: A

surely A

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Selected Answer: A

Google Compute Engine provides a flexible and scalable virtual machine (VM) infrastructure that allows organizations to run their applications in the cloud. It offers a wide range of VM configurations, including various operating system options, to meet the specific requirements of different applications.

In the case of legacy applications that require separate operating systems for each application, Google Compute Engine allows the organization to create individual VM instances with dedicated operating systems. Each application can have its own isolated environment, ensuring compatibility and independence.

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Selected Answer: A

Virtual machines - One Os Container - OS shared

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