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

Show Suggested Answer

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

Comments

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jellybiscuit Highly Voted 2 years ago

Selected Answer: A

Sometimes I wonder why this site even bothers to provide answers.

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shuvs 1 year, 11 months ago

Lol. And who provide the answers on their behalf

upvoted 5 times

Kasica96 1 year, 7 months ago

It's mentioned on the top of the each page :) - "Expert Verified" HAHAHAHA

upvoted 5 times

maariacasasola 11 months, 1 week ago

I read in another answer discussion that many of the answers are wrong because they don't want to get in trouble with GC. So I always trust in 'Most voted' option xD

upvoted 3 times

Ej24356 Highly Voted 2 years, 1 month ago

Selected Answer: A

Virtualization enables you to run multiple operating systems on the hardware of a single physical server, while containerization enables you to deploy multiple applications using the same operating system on a single virtual machine or server. Serverless computing would be no OS required and the open source operating system allows the use of code that is freely distributed and available to anyone and for commercial purposes such as Linux and Free BSD.

upvoted 10 times

himel2024 Most Recent 9 months ago

Selected Answer: A

Virtual machines

upvoted 1 times

VenVPS 9 months, 2 weeks ago

Selected Answer: A

Virtual Machines

upvoted 1 times

pandeypc 10 months ago

A. Virtual machines

If the current architecture dictates that each application needs its own operating system (OS) instead of sharing an OS, the organization should choose Virtual Machines (VMs). Virtual machines provide a level of isolation that allows each application to run on its own virtualized instance with a dedicated operating system.

Options B (Open source), C (Serverless computing), and D (Containers) are not directly related to the requirement of each application having its own operating system. Open source refers to the development model, serverless computing abstracts infrastructure details, and containers share the OS kernel. Virtual machines align with the specified architectural constraint of separate operating systems for each application.

upvoted 1 times

chai_gpt 11 months, 3 weeks ago

Selected Answer: A

A is correct

upvoted 1 times

__rajan__ 1 year ago

Selected Answer: A

A is correct.

upvoted 1 times

mdsarfraz69 1 year, 1 month ago

Selected Answer: B

B is correct

upvoted 2 times

zeezeez 1 year, 1 month ago

Selected Answer: D

having containers with different operating systems for each application is much efficient and lightweight solution that provisioning VMs for each application just to have different OS.

upvoted 1 times

Lufly 1 year, 1 month ago

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.

upvoted 1 times

Brooklyn_ 1 year, 2 months ago

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.

upvoted 1 times

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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Azwscp2023 1 year, 3 months ago

Selected Answer: A

surely A

upvoted 1 times

peterm42 1 year, 4 months ago

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cookieMr 1 year, 4 months ago

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.

upvoted 1 times

pillais 1 year, 6 months ago

Selected Answer: A

Virtual machines - One Os
Container - OS shared

upvoted 1 times

Tan1002_ 1 year, 6 months ago

Why are the answers incorrect provided by the site?

upvoted 1 times

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