13.1.5 Practice Questions

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Score: 100% Passing Score: 80%

Question 1: ✔ Correct

Which of the following types of cloud storage is managed from a dashboard or webpage?

- Block
- Libraries
- Blob
- Container

Explanation

Blob is short for binary large object. Blobs can be any type of data, like documents, video, audio, or backup data. You don't store and retrieve blob data the same way you would on a network drive. Instead, blob storage is managed from a dashboard or webpage. As you upload files, each file or blob is given a URL that's used to access or download the blob. This is especially useful because that URL can be used as a link in other websites.

Block storage is like traditional drive space.

Container and libraries are not cloud storage types.

References

13.1.2 Cloud and Virtualization Overview: Part 2

13.1.4 Linux Cloud and Virtualization Facts

13.2.2 Virtual Machine Concepts: Part 2

13.2.3 Creating a Virtual Machine

13.2.4 Virtual Machine Facts

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Question 2: ✔ Correct

Which of the following cloud storage types is accessed through network drives or as a cloud computing resource?

- Block
- Paravirtualization
- Blob
- Full virtualization

Explanation

Cloud providers offer two types of cloud storage, block storage and blob storage. Block storage is like traditional drive space. It might be offered like a network drive or as a drive that's accessed by a cloud computing resource. Block storage stores files in directories in the same fashion as any other local file system.

Full virtualization presents a virtual hardware environment, which emulates a physical hardware environment.

Paravirtualization improves performance by allowing the guest operating system to communicate directly with some of the host's physical hardware.

Blob is short for binary large object. Blobs can be any type of data, like documents, video, audio, or backup data. You don't store and retrieve blob data the same way you would on a network drive. Instead, blob storage is managed from a dashboard or webpage. As you upload files, each file or blob is given a URL that's used to access or download the blob. This is especially useful because that URL can be used as a link in other websites.

References

- 13.1.2 Cloud and Virtualization Overview: Part 2
- 13.1.4 Linux Cloud and Virtualization Facts
- 13.2.2 Virtual Machine Concepts: Part 2
- 13.2.3 Creating a Virtual Machine
- 13.2.4 Virtual Machine Facts

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Question 3: ✔ Correct

You were recently hired by a small start-up company. The company is in a small office and has several remote employees.

You have been asked to find a business service that would accommodate the current size of the company but would also be able to scale as the company grows. The service needs to provide adequate storage as well as additional computing power.

Which cloud service model should you use?

- DaaS
- ➡ IaaS
- PaaS
- SaaS

Explanation

Infrastructure as a Service (IaaS) delivers infrastructure to the client, such as processing, storage, networks, and virtualized environments. The client deploys and runs software without purchasing servers, data center space, or network equipment.

Software as a Service (SaaS) delivers software applications to the client either over the internet or on a local area network. Platform as a Service (PaaS) delivers everything a developer needs to build an application onto the cloud infrastructure. The deployment comes without the cost and complexity of buying and managing the underlying hardware and software layers. Data as a Service (DaaS) stores and provides data from a centralized location without requiring local collection and storage.

References

13.1.4 Linux Cloud and Virtualization Facts

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Question 4: ✔ Correct

There are two types of hypervisors, Type 1 and Type 2.

Which of the following describes those two types? (Choose TWO.)

- [x] A type 1 hypervisor runs on bare metal hardware and is referred to as a native hypervisor.
- [x] A type 2 hypervisor runs on an operating system.
- [ ] A type 2 hypervisor is an operating system that runs the hypervisor as a dedicated system.
- [ ] A type 1 hypervisor is a software application that runs on top of a conventional operating system.

Explanation

A Type 1 hypervisor runs on bare metal hardware and is referred to as a native hypervisor. Microsoft Hyper-V and VMware ESX are examples of a Type 1 hypervisor.

A Type 2 hypervisor runs on an operating system such as Windows, MacOS, or Linux. VMware Workstation, Oracle VM VirtualBox, Parallels Desktop for Mac, and open source QEMU are examples of Type 2 hypervisors.

References

13.1.1 Cloud and Virtualization Overview: Part 1

13.1.3 Install Hypervisor

13.1.4 Linux Cloud and Virtualization Facts

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Question 5: ✔ Correct

There are three types of virtualization environments. Match the virtualization type on the left with the description on the right. Virtualization types may be used more than once.

The virtual machine completely simulates a physical computer system.

✔ Full virtualization

Operating systems do not need modification to run within virtual machines.

✔ Full virtualization

Only some of the components of a virtual machine are virtualized.

✔ Partial virtualization

Handles some of the virtualization processing the hypervisor would normally perform.

✔ Hardware-Assisted Virtualization

Explanation

Full virtualization presents a virtual hardware environment, which emulates a physical hardware environment, provides the best isolation and security for VMs, and requires extra time and processing power to provide virtual hardware emulation.

Paravirtualization improves performance by allowing the guest operating system to communicate directly with some of the host's physical hardware and is implemented by modifying the guest operating system with special device drivers.

Hardware-assisted virtualization greatly improves a full virtualization environment and handles some of the virtualization processing the hypervisor would normally perform.

References

13.1.1 Cloud and Virtualization Overview: Part 1

13.1.3 Install Hypervisor

13.1.4 Linux Cloud and Virtualization Facts

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