Virtualization in cloud computing

Quiz

- **Which of the following type of virtualization is also characteristic of cloud computing?**
- Storage
- Application
- CPU
- All of the mentioned

Answer: D

Quiz

- Point out the wrong statement :

a. Abstraction enables the key benefit of cloud computing: shared, ubiquitous access
b. Virtualization assigns a logical name for a physical resource and then provides a pointer to that physical resource when a request is made
c. All cloud computing applications combine their resources into pools that can be assigned on demand to users
d. All of the mentioned

Answer: B,C

Quiz

- In _____, the virtual machine simulates hardware, so it can be independent of the underlying system hardware.
- Para virtualization
- full virtualization
- Emulation
- None of the mentioned

Answer: C

Quiz

- An operating system running on a Type __ VM is a full virtualization

a. 1

b. 2

c. 3

d. Any of the above

Answer: 1

Quiz

- Point out the wrong statement

a. Some hypervisors are installed over an operating system and are referred to as Type 2 or hosted VM

b. All CPUs support virtual machines

c. On a Type 2 VM, a software interface is created that emulates the devices with which a system would normally interact

d. All of the mentioned

Answer: B

Quiz

Which of the following characteristics should you consider when deciding whether to deploy an application or service to a virtual machine?

a. Hardware requirements

b. Software support and compatibility

c. Licensing

d. Performance and resource requirements

e. Historical performance data

f. All of the above

Answer: F

Quiz

- **Which of the following virtualization management approaches can help organizations maintain optimal hardware resource utilization over time?**

a. Automatically reconfiguring virtual machines based on performance statistics

b. Deploying multiple copies of virtual machines to different host servers

c. Automatically moving virtual machines based on changes to resource requirements

d. Placing virtual machines on isolated virtual network switches

e. Storing virtual machines on a Storage Area Network (SAN)

f. Both a and c

Answer: F

Quiz

- **You are a systems administrator that manages a lab environment for your organization's software developers and testers. How can you reduce the amount of time and effort you spend on managing the lab environment while providing quicker deployments of new virtual machines?**

a. Create a library of virtual machine templates and copy them to create new VMs
b. Invest in self-service virtualization provisioning systems
c. Give developers and testers permissions to create and deploy new VMs
d. Define standardized configurations for test environment virtual machines
e. All of the above

Answer: E

Quiz

- **You are a software tester that is testing a complex application that is running within a single virtual machine. You have recently encountered a rare and intermittent software defect that developers have been unable to reproduce or troubleshoot in the past. Which of the following steps should you take to allow developers to recreate the issue?**

a. Power off the virtual machine and discard any saved state information

b. Save the state of the virtual machine and provide a copy of it to your developers to troubleshoot the problem

c. Roll back the state of the virtual machine to a point in time prior to when the defect was discovered

d. Move the virtual machine to another host server to which developers have access

Answer: B, D

Quiz

- **You are a systems administrator that is responsible for supporting a team of software testers in your organization. The test department frequently requires new VMs running a wide variety of different operating systems to thoroughly test a new application your company is developing. VMs must be able to communicate with each other over the network. You are concerned about the potential security impact of these new VMs. Which of the following steps can you take to reduce security risks?**

a. Disable network and Internet access for all virtual machines

b. Place all test-related virtual machines on a private virtual network

c. Power on virtual machines only when they are being actively used in the environment

d. Configure virtual machines to run under an account with limited permissions

Answer: C,D