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QUESTION 1

A DevOps administrator is designing a new machine-learning platform. The application needs to be portable between public and private clouds and should be kept as small as possible. Which of the following approaches would BEST meet these requirements?

A. Virtual machines

B. Software as a service

C. Serverless computing

D. Containers

Correct Answer: D

Containers are the best approach to design a new machine-learning platform that needs to be portable between public and private clouds and should be kept as small as possible. Containers are isolated environments that can run applications and their dependencies without interfering with other processes or systems. Containers are lightweight, portable, and scalable, which makes them ideal for machine-learning applications. Containers can be moved easily between public and private clouds without requiring any changes or modifications. Containers can also reduce the size and complexity of applications by using only the necessary components and libraries.

Reference: https://www.ibm.com/in-en/cloud/learn/containerization

QUESTION 2

Which of the following service models would be used for a database in the cloud?

A. PaaS

B. laaS

C. CaaS

D. SaaS

Correct Answer: A

PaaS (Platform as a Service) is a cloud service model that provides a platform for developing, testing, deploying, and managing applications in the cloud. PaaS includes the underlying infrastructure (servers, storage, network, etc.) as well as the middleware, databases, tools, frameworks, and APIs that are required for application development and delivery. Examples of PaaS are AWS Elastic Beanstalk, Azure App Service, Google App Engine, etc.

QUESTION 3

Which of the following strategies will mitigate the risk of a zero-day vulnerability MOST efficiently?

A. Using only open-source technologies

B. Keeping all resources up to date

C. Creating a standby environment with a different cloud provider

D. Having a detailed incident response plan

Correct Answer: D

An incident response plan is a document or procedure that defines the roles, responsibilities, and actions to be taken in the event of a security incident or breach. Having a detailed incident response plan can help mitigate the risk of a zero-day vulnerability most efficiently, as it can provide a clear and consistent framework for identifying, containing, analyzing, and resolving any potential threats or exploits related to the unknown or unpatched vulnerability. Having a detailed incident response plan can also help minimize the impact and damage of a security incident or breach, as it can enable timely and effective recovery and restoration processes. References: CompTIA Cloud+ Certification Exam Objectives, page 14, section 2.7

QUESTION 4

An organization provides integration services for finance companies that use web services. A new company that sends and receives more than 100,000 transactions per second has been integrated using the web service. The other integrated companies are now reporting slowness with regard to the integration service. Which of the following is the cause of the issue?

A. Incorrect configuration in the authentication process

B. Incorrect configuration in the message queue length

C. Incorrect configuration in user access permissions

D. Incorrect configuration in the SAN storage pool

Correct Answer: B

Reference: https://www.ibm.com/docs/en/ibm-mq/9.1?topic=i-determining-problems-applications-commands-messages

QUESTION 5

An organization will be deploying a web application in a public cloud with two web servers, two database servers, and a load balancer that is accessible over a single public IP.

Taking into account the gateway for this subnet and the potential to add two more web servers, which of the following will meet the minimum IP requirement?

A. 192.168.1.0/26

B. 192.168.1.0/27

C. 192.168.1.0/28

D. 192.168.1.0/29

Correct Answer: C

A /28 subnet is a subnet that has a network prefix of 28 bits and a host prefix of 4 bits. A /28 subnet can support up to 16 hosts (14 usable hosts) and has a subnet mask of 255.255.255.240. Using a /28 subnet can meet the minimum IP

requirement for deploying a web application in a public cloud with two web servers, two database servers, and a load balancer that is accessible over a single public IP, taking into account the gateway for this subnet and the potential to add two more web servers. Using a /28 subnet can provide enough host addresses for the current and future web servers, database servers, load balancer, and gateway, as well as allow for some growth or redundancy. References: CompTIA Cloud+ Certification Exam Objectives, page 15, section 2.8

QUESTION 6

A systems administrator is troubleshooting an application that is configured to auto-scale with a minimum of two nodes and a maximum of four. The application will scale out if the CPU utilization of one of the nodes exceeds 80% for more than five minutes and will scale in if the CPU utilization of one of the nodes drops under 20% for more than ten minutes. There is a reverse proxy in front of the application. The systems administrator notices two of the nodes are often running over 80% for a long period of time, which is triggering the creation of the other two nodes; however, they are being created and terminated while the load in the first two remains over 50% all the time. Which of the following should the administrator configure to fix this issue?

A. Disable DNS caching in the reverse proxy.

B. Reduce the minimum node count to one.

C. Disable TLS tickets.

D. Reduce the scale-out rule to 50%.

E. Increase the scale-in rule to 50%.

Correct Answer: A

QUESTION 7

A company is considering consolidating a number of physical machines into a virtual infrastructure that will be located at its main office. The company has the following requirements:

1.

High-performance VMs

2.

More secure

3.

Has system independence

Which of the following is the BEST platform for the company to use?

A. Type 1 hypervisor

B. Type 2 hypervisor

C. Software application virtualization

D. Remote dedicated hosting

Correct Answer: A

QUESTION 8

A company wants to take advantage of cloud benefits while retaining control of and maintaining compliance with all its security policy obligations. Based on the non-functional requirements, which of the following should the company use?

A. Hybrid cloud, as use is restricted to trusted customers

B. IaaS, as the cloud provider has a minimal level of security responsibility

C. PaaS, as the cloud customer has the most security responsibility

D. SaaS, as the cloud provider has less security responsibility

Correct Answer: B

QUESTION 9

In an existing IaaS instance, it is required to deploy a single application that has different versions.

Which of the following should be recommended to meet this requirement?

A. Deploy using containers

B. Install a Type 2 hypervisor

C. Enable SR-IOV on the host

D. Create snapshots

Correct Answer: A

Containers are a type of deployment technology that packages an application and its dependencies into a lightweight and portable unit that can run on any platform or environment. Containers can help deploy a single application that has different versions in an existing IaaS instance, as they can isolate and run multiple versions of the same application without any conflicts or interference. Containers can also enable faster and easier deployment, scaling, and management of cloud-based applications. References: CompTIA Cloud+ Certification Exam Objectives, page 11, section 1.6

QUESTION 10

A company has deployed a new cloud solution and is required to meet security compliance.

Which of the following will MOST likely be executed in the cloud solution to meet security requirements?

A. Performance testing

B. Regression testing

C. Vulnerability testing

D. Usability testing

Correct Answer: C

Vulnerability testing is a type of security testing that identifies and evaluates the weaknesses or flaws in a system or service that could be exploited by attackers. Vulnerability testing can help meet security compliance requirements when deploying a new cloud solution, as it can reveal any potential security risks or gaps in the cloud environment and provide recommendations for remediation or mitigation. Vulnerability testing can also help improve security posture and performance, as it can prevent or reduce the impact of cyberattacks, data breaches, or service disruptions. References: CompTIA Cloud+ Certification Exam Objectives, page 14, section 2.7

QUESTION 11

Which of the following would be the BEST option for discussion of what individuals should do in an incident response or disaster recovery scenario?

A. A business continuity plan

B. Incident response/disaster recovery documentation

C. A tabletop exercise

D. A root cause analysis

Correct Answer: C

A tabletop exercise is the best option for discussion of what individuals should do in an incident response or disaster recovery scenario. A tabletop exercise is a simulated scenario that involves key stakeholders and decision-makers who review and discuss their roles and responsibilities in response to an emergency situation or event. A tabletop exercise can help to test and evaluate plans, procedures, policies, training, and communication.

QUESTION 12

An IaaS provider has numerous devices and services that are commissioned and decommissioned automatically on an ongoing basis. The cloud administrator needs to implement a solution that will help reduce administrative overhead.

Which of the following will accomplish this task?

A. IPAM

B. NAC

C. NTP

D. DNS

Correct Answer: A

IP address management (IPAM) is a type of tool or system that automates and standardizes the allocation, tracking, and management of IP addresses in an IP network. IPAM can help reduce administrative overhead for an IaaS provider that has numerous devices and services that are commissioned and decommissioned automatically on an ongoing basis, as it can simplify and centralize the process of assigning and reclaiming IP addresses for different devices and services without manual intervention or errors. IPAM can also help optimize network performance and security, as it can monitor and report any issues or conflicts related to IP addresses. References: CompTIA Cloud+ Certification Exam Objectives, page 15, section 2.8

Reference: https://www.infoblox.com/glossary/ipam-ip-address-management/

QUESTION 13

A cloud administrator is responsible for managing a public cloud environment. The administrator needs to deploy new servers that will be domain controllers to authenticate 500,000 users and computer objects. Which of the following storage types would be BEST to select when deploying the servers to achieve the lowest cost per I/O?

A. Hybrid

B. SAS

C. Flash

D. SSD

Correct Answer: A

QUESTION 14

A cloud architect is reviewing the design for a new cloud-based ERP solution. The solution consists of eight servers with a single network interface. The allocated IP range is 172.16.0.0/28. One of the requirements of the solution is that it must be able to handle the potential addition of 16 new servers to the environment. Because of the complexity of the firewall and related ACL requirements, these new servers will need to be in the same network range. Which of the following changes would allow for the potential server addition?

A. Change the IP address range to use a 10.0.0.0 address.

B. Change the server template to add network interfaces.

C. Change the subnet mask to use a 255.255.255.128 range.

D. Change the server scaling configuration to increase the maximum limit.

Correct Answer: C

QUESTION 15

An organization has multiple VLANs configured to segregate the network traffic. Following is the breakdown of the

network segmentation:

1.

Production traffic (10.10.0.0/24)

2.

Network backup (10.20.0.0/25)

3.

Virtual IP network (10.20.0.128/25)

The following configuration exists on the server:

Server name	Interface	IP address	Gateway
COMPSRV01	Network backup	10.20.0.12/25	10.10.0.1

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The backup administrator observes that the weekly backup is failing for this server. Which of the following commands should the administrator run to identify the issue?

A. ROUTE PRINT

B. NETSTAT-A

C. IPCONFIG /ALL

D. NET SM

Correct Answer: A

ROUTE PRINT is a command that displays the routing table of a system, which shows the destination network, the gateway, the interface, and the metric for each route. ROUTE PRINT can help identify the issue of the weekly backup failing for this server, as it can show if there is a valid route to the network backup segment (10.20.0.0/25) from the production traffic segment (10.10.0.0/24). If there is no route or an incorrect route, the backup will fail to reach the destination. The administrator can use ROUTE PRINT to verify and troubleshoot the routing configuration of the server. References: CompTIA Cloud+ Certification Exam Objectives, page 16, section 3.2

Reference: https://www.toolbox.com/tech/operating-systems/blogs/using-the-route-print-command-in-windows-7-022310/

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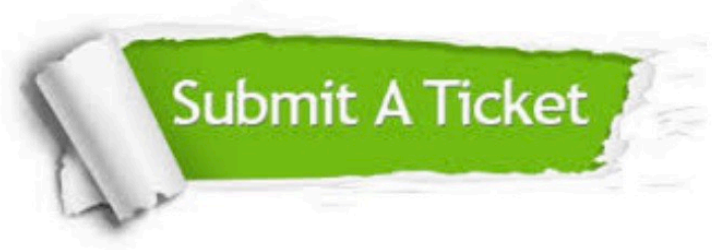

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