CompTIA

Exam Questions CV0-003

CompTIA Cloud+ Certification Exam

NEW QUESTION 1
An organization's web server farm, which is hosted in the cloud with DNS load balancing, is experiencing a spike in network traffic. This has caused an outage of the organization's web server infrastructure.
Which of the following should be implemented to prevent this in the future as a mitigation method?

A. Enable DLP
B. Configure microsegmentation
C. Enable DNSSEC
D. Deploy a vADC appliance

Answer: D

NEW QUESTION 2
A support engineer wants to prevent users from running malware on several IaaS compute instances. Which of the following will BEST achieve this objective?

A. Encrypt all applications that users should not access.
B. Set the execute filesystem permissions on the desired applications only.
C. Implement an application whitelisting policy.
D. Disable file sharing on the instance.

Answer: C

NEW QUESTION 3
A company recently experienced a power outage that lasted 30 minutes. During this time, a whole rack of servers was inaccessible, even though the servers did not lose power.
Which of the following should be investigated FIRST?

A. Server power
B. Rack power
C. Switch power
D. SAN power

Answer: C

NEW QUESTION 4
Users of an enterprise application, which is configured to use SSO, are experiencing slow connection times. Which of the following should be done to troubleshoot the issue?

A. • Perform a memory dump of the OS.• Analyze the memory dump.• Upgrade the host CPU to a higher clock speed CPU.
B. • Perform a packet capture during authentication.• Validate the load-balancing configuration.• Analyze the network throughput of the load balancer.
C. • Analyze the storage system IOPS.• Increase the storage system capacity.• Replace the storage system disks to SSD.
D. • Evaluate the OS ACLs.• Upgrade the router firmware.• Increase the memory of the router.

Answer: C

NEW QUESTION 5
Some VMs that are hosted on a dedicated host server have each been allocated with 32GB of memory. Some of VMs are not utilizing more than 30% of the allocation. Which of the following should be enabled to optimize the memory utilization?

A. Auto-scaling of compute
B. Oversubscription
C. Dynamic memory allocations on guests
D. Affinity rules in the hypervisor

Answer: C

NEW QUESTION 6
A cloud administrator has deployed a new VM. The VM cannot access the Internet or the VMs on any other subnet. The administrator runs a network command and sees the following output:

```
IPv4 Address. . . . . .  172.16.31.38
Subnet Mask. . . . . . . 255.255.255.224
Default Gateway. . . . . .  172.16.31.254
```

The new VM can access another VM at 172.16.31.39. The administrator has verified the IP address is correct. Which of the following is the MOST likely cause of the connectivity issue?

A. A missing static route
B. A duplicate IP on the network
C. Firewall issues
D. The wrong gateway

Answer: B

NEW QUESTION 7

A Chief Information Security Officer (CISO) is evaluating the company's security management program. The CISO needs to locate all the assets with identified deviations and mitigation measures. Which of the following would help the CISO with these requirements?

A. An SLA document
B. ADR plan
C. SOC procedures
D. A risk register

Answer: C

NEW QUESTION 8
A systems administrator needs to convert ten physical servers to virtual.
Which of the following would be the MOST efficient conversion method for the administrator to use?

A. Rebuild the servers from scratch
B. Use the vendor's conversion tool
C. Clone the hard drive
D. Restore from backup

Answer: C

NEW QUESTION 9
A DevOps administrator is automating an existing software development workflow. The administrator wants to ensure that prior to any new code going into production, tests confirm the new code does not negatively impact existing automation activities.
Which of the following testing techniques would be BEST to use?

A. Usability testing
B. Regression testing
C. Vulnerability testing
D. Penetration testing

Answer: B

NEW QUESTION 10
A cloud administrator is switching hosting companies and using the same script that was previously used to deploy VMs in the new cloud. The script is returning errors that the command was not found.
Which of the following is the MOST likely cause of the script failure?

A. Account mismatches
B. IP address changes
C. API version incompatibility
D. Server name changes

Answer: D

NEW QUESTION 10
A systems administrator needs to configure an email client to ensure data integrity of the email messages. Which of the following provides the BEST mechanism to achieve this goal?

A. Cyclic redundancy check
B. SHA-1 hashes
C. SHA-256 hashes
D. Digital signature

Answer: A

NEW QUESTION 12
An organization has the following requirements that need to be met when implementing cloud services:
- SSO to cloud infrastructure
- On-premises directory service
- RBAC for IT staff

Which of the following cloud models would meet these requirements?

A. Public
B. Community
C. Hybrid
D. Multitenant

Answer: C

NEW QUESTION 15
A systems administrator is deploying a VM and would like to minimize storage utilization by ensuring the VM uses only the storage if needs. Which of the following will BEST achieve this goal?

A. Compression
B. Deduplication
C. RAID

D. Thin provisioning

Answer: D

NEW QUESTION 17
A technician just received the lessons learned from some recent data that was lost due to an on-premises file-server crash. The action point is to change the backup strategy to minimize manual intervention. Which of the following is the BEST approach for the technician to implement?

A. Backup as a service
B. RAID 1
C. Long-term storage
D. New backup devices

Answer: C

NEW QUESTION 22
An engineer is responsible for configuring a new firewall solution that will be deployed in a new public cloud environment. All traffic must pass through the firewall. The SLA for the firewall is 99.999%. Which of the following should be deployed?

A. Two load balancers behind a single firewall
B. Firewalls in a blue-green configuration
C. Two firewalls in a HA configuration
D. A web application firewall

Answer: C

NEW QUESTION 26
A company has decided to get multiple compliance and security certifications for its public cloud environment. However, the company has few staff members to handle the extra workload, and it has limited knowledge of the current infrastructure.
Which of the following will help the company meet the compliance requirements as quickly as possible?

A. DLP
B. CASB
C. FIM
D. NAC

Answer: D

NEW QUESTION 28
A company that utilizes an IaaS service provider has contracted with a vendor to perform a penetration test on its environment. The vendor is able to exploit the virtualization layer and obtain access to other instances within the cloud provider’s environment that do not belong to the company.
Which of the following BEST describes this attack?

A. VM escape
B. Directory traversal
C. Buffer overflow
D. Heap spraying

Answer: A

NEW QUESTION 30
A systems administrator has finished installing monthly updates to servers in a cloud environment. The administrator notices certain portions of the playbooks are no longer functioning. Executing the playbook commands manually on a server does not work as well. There are no other reports of issues.
Which of the following is the MOST likely cause of this issue?

A. Change management failure
B. Service overload
C. Patching failure
D. Job validation issues
E. Deprecated features

Answer: D

NEW QUESTION 31
Which of the following will mitigate the risk of users who have access to an instance modifying the system configurations?

A. Implement whole-disk encryption
B. Deploy the latest OS patches
C. Deploy an anti-malware solution
D. Implement mandatory access control

Answer: D

NEW QUESTION 33
A cloud engineer is responsible for managing two cloud environments from different MSPs. The security department would like to inspect all traffic from the two

cloud environments.
Which of the following network topology solutions should the cloud engineer implement to reduce long-term maintenance?

A. Chain
B. Star
C. Mesh
D. Hub and spoke

Answer: D

NEW QUESTION 38
A systems administrator needs to configure monitoring for a private cloud environment. The administrator has decided to use SNMP for this task.
Which of the following ports should the administrator open on the monitoring server's firewall?

A. 53
B. 123
C. 139
D. 161

Answer: D

NEW QUESTION 40
An organization has multiple VLANs configured to segregate the network traffic. Following is the breakdown of the network segmentation:
- Production traffic (10.10.0.0/24)
- Network backup (10.20.0.0/25)
- Virtual IP network (10.20.0.128/25)

The following configuration exists on the server:

Server name	Interface	IP address	Gateway
COMPSRV01	Production	10.10.0.12/24	10.10.0.1
COMPSRV01	Network backup	10.20.0.12/25	10.10.0.1

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

Answer: A

NEW QUESTION 41
An organization is hosting a DNS domain with private and public IP ranges. Which of the following should be implemented to achieve ease of management?

A. Network peering
B. A CDN solution
C. A SDN solution
D. An IPAM solution

Answer: D

NEW QUESTION 45
A systems administrator is reviewing two CPU models for a cloud deployment. Both CPUs have the same number of cores/threads and run at the same clock speed.
Which of the following will BEST identify the CPU with more computational power?

A. Simultaneous multithreading
B. Bus speed
C. L3 cache
D. Instructions per cycle

Answer: D

NEW QUESTION 47
A cloud architect is designing the VPCs for a new hybrid cloud deployment. The business requires the following:
- High availability
- Horizontal auto-scaling
- 60 nodes peak capacity per region
- Five reserved network IP addresses per subnet
- /24 range

Which of the following would BEST meet the above requirements?

A. Create two /25 subnets in different regions
B. Create three /25 subnets in different regions

C. Create two /26 subnets in different regions
D. Create three /26 subnets in different regions
E. Create two /27 subnets in different regions
F. Create three /27 subnets in different regions

Answer: B

NEW QUESTION 50
A cloud administrator is reviewing the authentication and authorization mechanism implemented within the cloud environment. Upon review, the administrator discovers the sales group is part of the finance group, and the sales team members can access the financial application. Single sign-on is also implemented, which makes access much easier.
Which of the following access control rules should be changed?

A. Discretionary-based
B. Attribute-based
C. Mandatory-based
D. Role-based

Answer: D

NEW QUESTION 55
A private IaaS administrator is receiving reports that all newly provisioned Linux VMs are running an earlier version of the OS than they should be. The administrator reviews the automation scripts to troubleshoot the issue and determines the scripts ran successfully. Which of the following is the MOST likely cause of the issue?

A. API version incompatibility
B. Misconfigured script account
C. Wrong template selection
D. Incorrect provisioning script indentation

Answer: C

NEW QUESTION 59
An IaaS application has a two-hour RTO and a four-hour RPO. The application takes one hour to back up its data or restore from a local backup file. A systems administrator is tasked with configuring the backup policy.
Which of the following should the administrator configure to achieve the application requirements with the LEAST cost?

A. Back up to long-term storage every night
B. Back up to object storage every three hours
C. Back up to long-term storage every four hours
D. Back up to object storage every hour

Answer: D

NEW QUESTION 62
A resource pool in a cloud tenant has 90 GB of memory and 120 cores. The cloud administrator needs to maintain a 30% buffer for resources for optimal performance of the hypervisor. Which of the following would allow for the maximum number of two-core machines with equal memory?

A. 30 VMs, 3GB of memory
B. 40 VMs, 1,5GB of memory
C. 45 VMs, 2 GB of memory
D. 60 VMs, 1 GB of memory

Answer: D

NEW QUESTION 63
Company A has acquired Company B and is in the process of integrating their cloud resources. Company B needs access to Company A's cloud resources while retaining its IAM solution.
Which of the following should be implemented?

A. Multifactor authentication
B. Single sign-on
C. Identity federation
D. Directory service

Answer: C

NEW QUESTION 67
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

Answer: A

NEW QUESTION 71
A systems administrator recently deployed a VDI solution in a cloud environment; however, users are now experiencing poor rendering performance when trying to display 3-D content on their virtual desktops, especially at peak times.
Which of the following actions will MOST likely solve this issue?

A. Update the quest graphics drivers from the official repository
B. Add more vGPU licenses to the host
C. Instruct users to access virtual workstations only on the VLAN
D. Select vGPU profiles with higher video RAM

Answer: D

NEW QUESTION 72
A company has developed a cloud-ready application. Before deployment, an administrator needs to select a deployment technology that provides a high level of portability and is lightweight in terms of footprint and resource requirements.
Which of the following solutions will be BEST to help the administrator achieve the requirements?

A. Containers
B. Infrastructure as code
C. Desktop virtualization
D. Virtual machines

Answer: A

NEW QUESTION 74
A systems administrator needs to configure a set of policies to protect the data to comply with mandatory regulations.
Which of the following should the administrator implement to ensure DLP efficiently prevents the exposure of sensitive data in a cloud environment?

A. Integrity
B. Versioning
C. Classification
D. Segmentation

Answer: A

NEW QUESTION 77
An organization requires the following to be achieved between the finance and marketing departments: Allow HTTPS/HTTP.
Disable FTP and SMB traffic.
Which of the following is the MOST suitable method to meet the requirements?

A. Implement an ADC solution to load balance the VLAN traffic
B. Configure an ACL between the VLANs
C. Implement 802.1X in these VLANs
D. Configure on-demand routing between the VLANs

Answer: B

NEW QUESTION 81
A company wants to implement business continuity, and the cloud solution architect needs to design the correct solution.
Which of the following will provide the data to measure business continuity? (Choose two.)

A. A service-level agreement
B. Automation scripts
C. Playbooks
D. A network diagram
E. A backup and restore
F. A recovery time objective

Answer: AF

NEW QUESTION 86
The human resources department was charged for a cloud service that belongs to another department. All other cloud costs seem to be correct.
Which of the following is the MOST likely cause for this error?

A. Misconfigured templates
B. Misconfigured chargeback
C. Incorrect security groups
D. Misconfigured tags

Answer: A

NEW QUESTION 90
An organization is running a database application on a SATA disk, and a customer is experiencing slow performance most of the time.

Which of the following should be implemented to improve application performance?

A. Increase disk capacity
B. Increase the memory and network bandwidth
C. Upgrade the application
D. Upgrade the environment and use SSD drives

Answer: D

NEW QUESTION 95
A cloud administrator is reviewing a new application implementation document. The administrator needs to make sure all the known bugs and fixes are applied, and unwanted ports and services are disabled.
Which of the following techniques would BEST help the administrator assess these business requirements?

A. Performance testing
B. Usability testing
C. Vulnerability testing
D. Regression testing

Answer: C

NEW QUESTION 100
A company is currently running a website on site. However, because of a business requirement to reduce current RTO from 12 hours to one hour, and the RPO from one day to eight hours, the company is considering operating in a hybrid environment. The website uses mostly static files and a small relational database.
Which of the following should the cloud architect implement to achieve the objective at the LOWEST cost possible?

A. Implement a load-balanced environment in the cloud that is equivalent to the current on-premises setupand use DNS to shift the load from on premises to cloud.
B. Implement backups to cloud storage and infrastructure as code to provision the environment automatically when the on-premises site is dow
C. Restore the data from the backups.
D. Implement a website replica in the cloud with auto-scaling using the smallest possible footprin
E. Use DNS to shift the load from on premises to the cloud.
F. Implement a CDN that caches all requests with a higher TTL and deploy the laaS instances manually in case of disaste
G. Upload the backup on demand to the cloud to restore on the new instances.

Answer: B

NEW QUESTION 103
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

Answer: D

NEW QUESTION 108
A systems administrator is building a new virtualization cluster. The cluster consists of five virtual hosts, which each have flash and spinning disks. This storage is shared among all the virtual hosts, where a virtual machine running on one host may store data on another host. This is an example of:

A. a storage area network
B. a network file system
C. hyperconverged storage
D. thick-provisioned disks

Answer: A

NEW QUESTION 110
After a hardware upgrade on a private cloud system, the systems administrator notices a considerable drop in network performance. Which of the following is MOST likely the cause?

A. The driver
B. The memory
C. The cluster placement
D. The CPU

Answer: C

NEW QUESTION 113
An organization has two businesses that are developing different software products. They are using a single cloud provider with multiple IaaS instances. The organization identifies that the tracking of costs for each business are inaccurate.
Which of the following is the BEST method for resolving this issue?

A. Perform segregation of the VLAN and capture egress and ingress values of each network interface
B. Tag each server with a dedicated cost and sum them based on the businesses
C. Split the total monthly invoice equally between the businesses
D. Create a dedicated subscription for the businesses to manage the costs

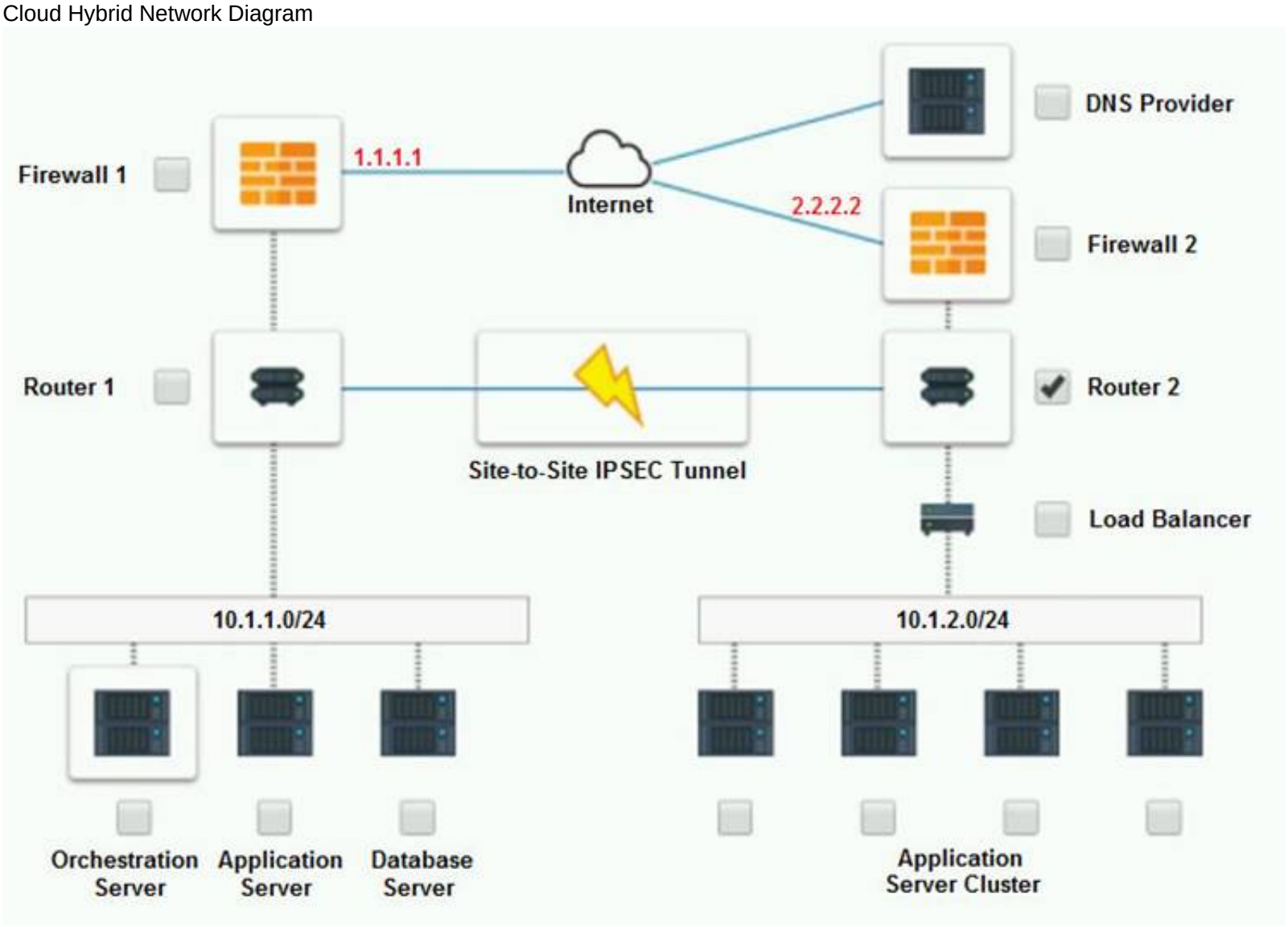
Answer: B

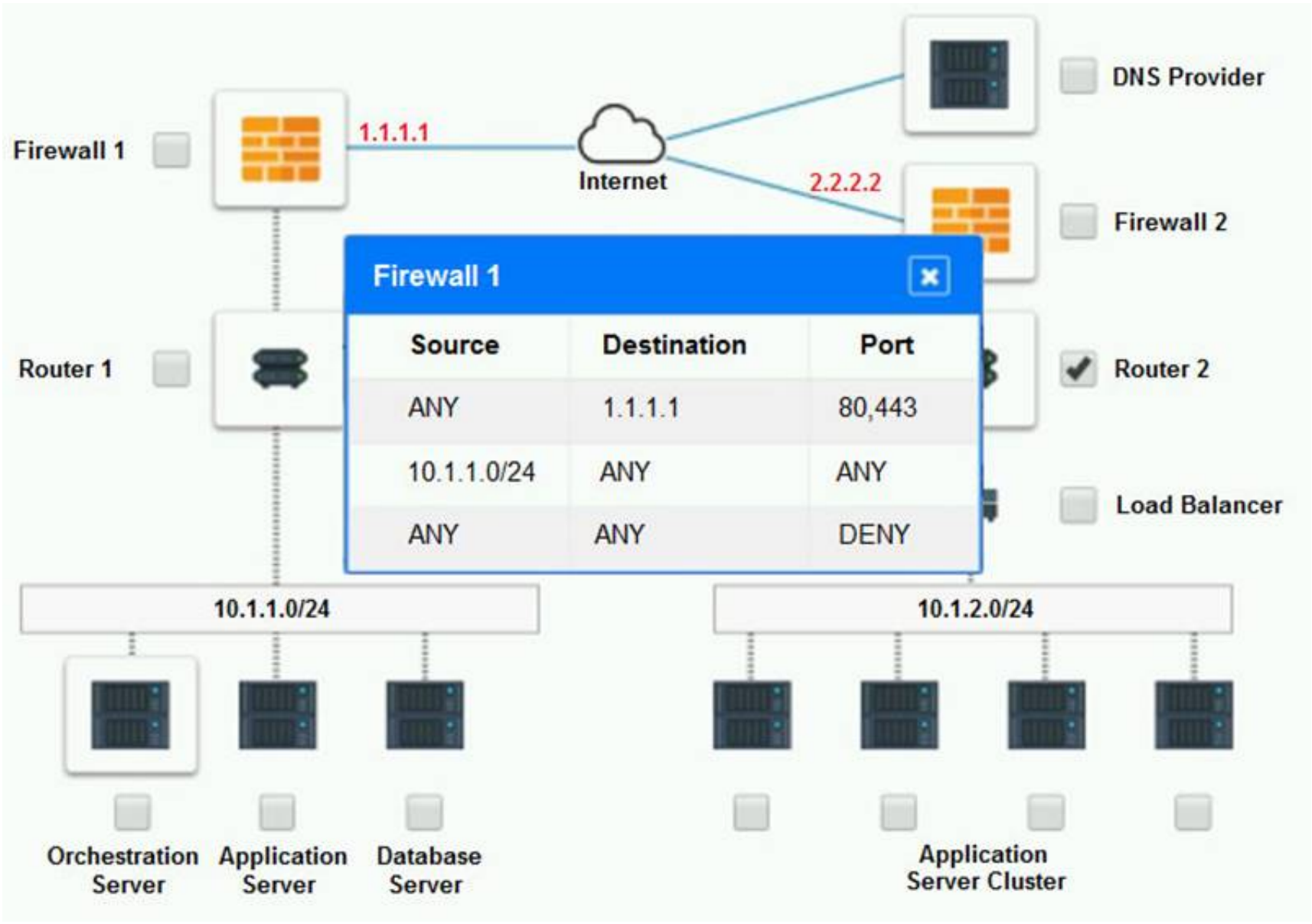
NEW QUESTION 117
A systems administrator wants the VMs on the hypervisor to share CPU resources on the same core when feasible.
Which of the following will BEST achieve this goal?

A. Configure CPU passthrough
B. Oversubscribe CPU resources
C. Switch from a Type 1 to a Type 2 hypervisor
D. Increase instructions per cycle
E. Enable simultaneous multithreading

Answer: B

NEW QUESTION 119
A company has decided to scale its e-commerce application from its corporate datacenter to a commercial cloud provider to meet an anticipated increase in demand during an upcoming holiday.
The majority of the application load takes place on the application server under normal conditions. For this reason, the company decides to deploy additional application servers into a commercial cloud provider using the on-premises orchestration engine that installs and configures common software and network configurations.
The remote computing environment is connected to the on-premises datacenter via a site-to-site IPSec tunnel. The external DNS provider has been configured to use weighted round-robin routing to load balance connections from the Internet.
During testing, the company discovers that only 20% of connections completed successfully. INSTRUCTIONS
Review the network architecture and supporting documents and fulfill these requirements:
Part 1:
Analyze the configuration of the following components:
DNS, Firewall 1, Firewall 2, Router 1, Router 2, VPN and Orchestrator Server.
Identify the problematic device(s).
Part 2:
Identify the correct options to provide adequate configuration for hybrid cloud architecture.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.
Part 1:
Cloud Hybrid Network Diagram

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Internet
2.2.2.2
DNS Provider
Firewall 2
Router 1
Router 2
Load Balancer
Firewall 1
Source
Destination
Port
ANY
1.1.1.1
80,443
10.1.1.0/24
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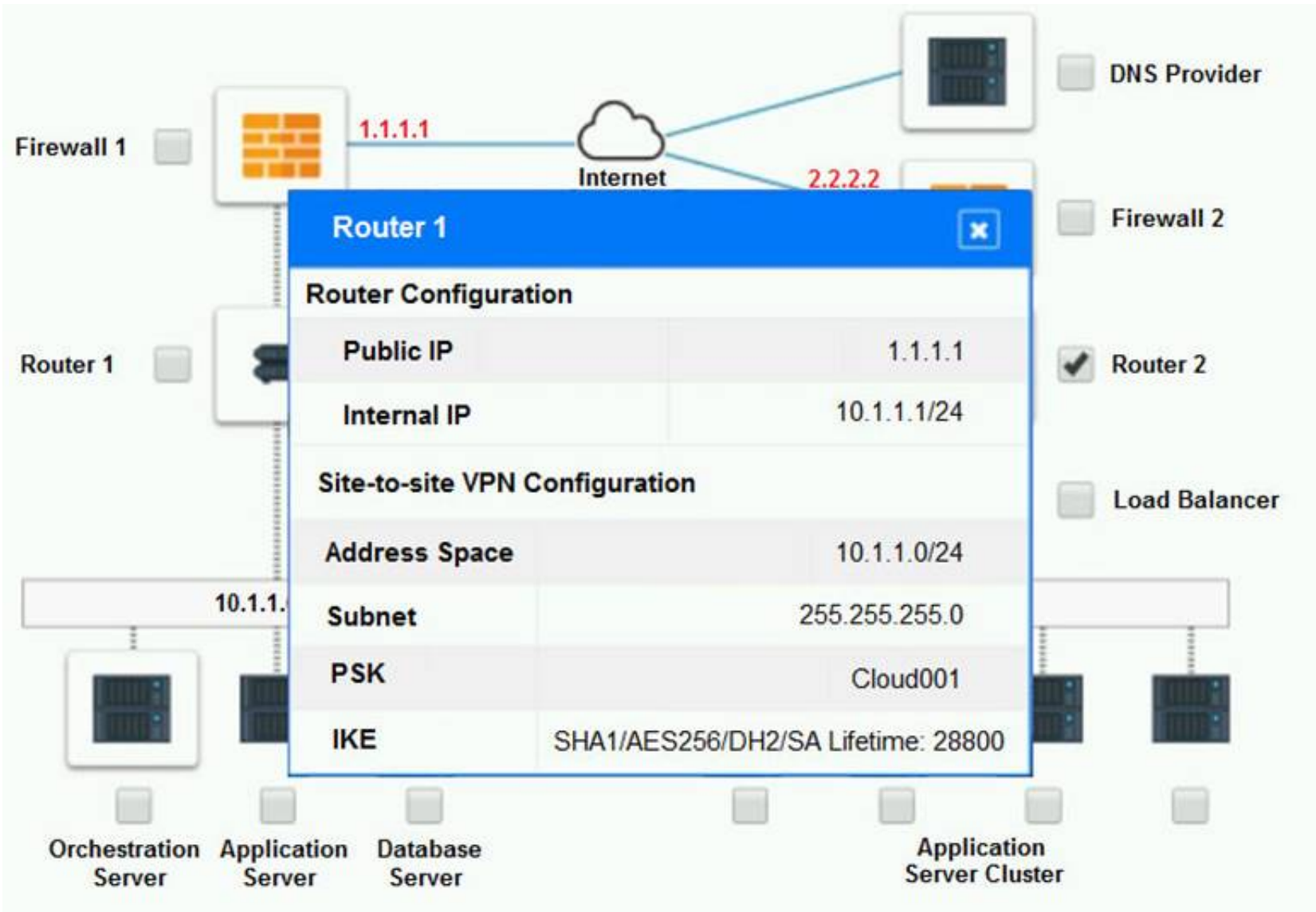
DENY
10.1.1.0/24
10.1.2.0/24
Orchestration Server
Application Server
Database Server
Application Server Cluster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Firewall 2
Router 1
Router 2
Load Balancer
Router 1
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1.1.1.1
Internal IP
10.1.1.1/24
Site-to-site VPN Configuration
Address Space
10.1.1.0/24
Subnet
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PSK
Cloud001
IKE
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Orchestration Server
Application Server
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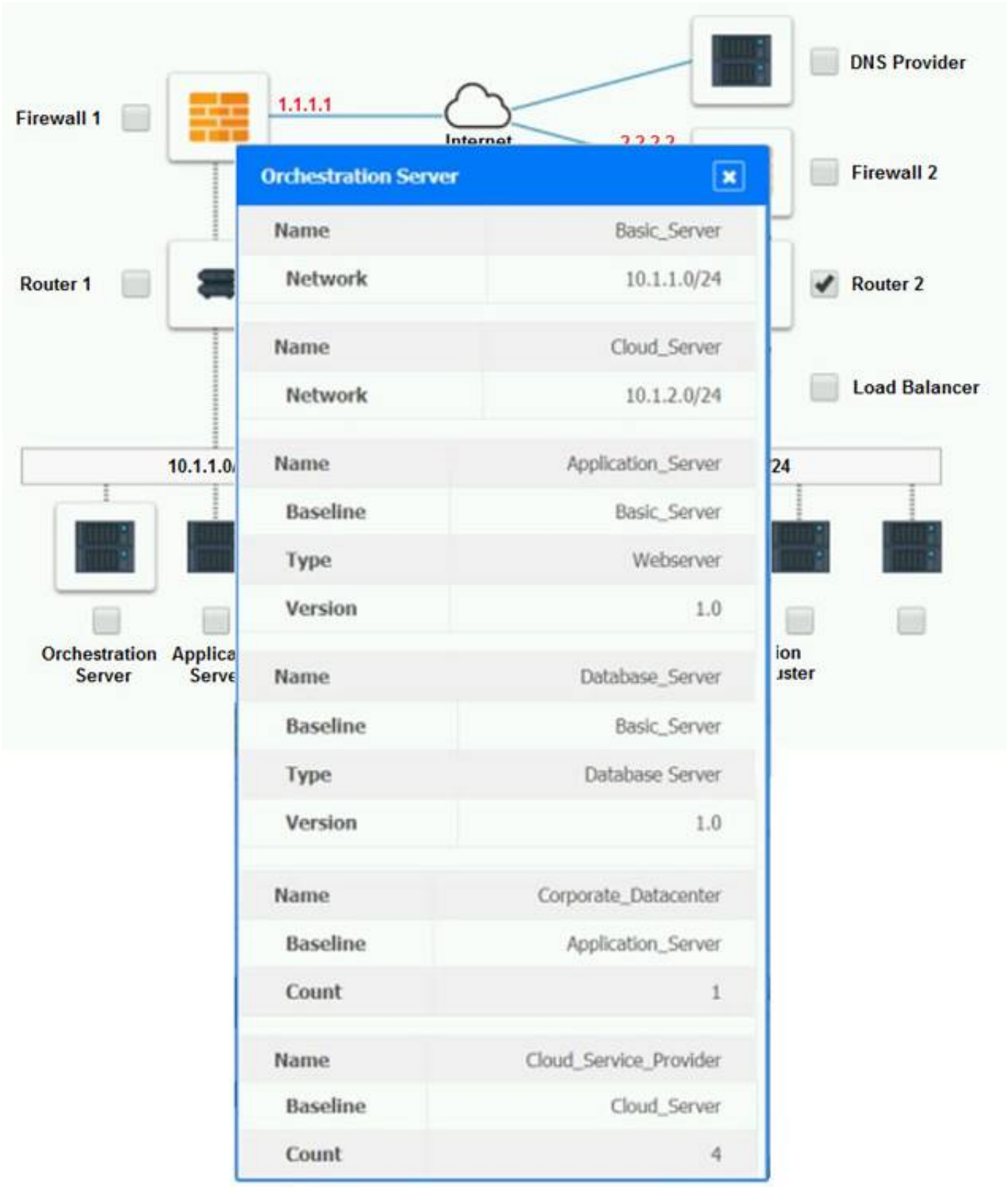
Application Server Cluster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2.2.2.2
DNS Provider
Firewall 2
Router 1
Router 2
Load Balancer
10.1.1.0/
/24
Orchestration Server
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Orchestration Server
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Network 10.1.1.0/24
Name Cloud_Server
Network 10.1.2.0/24
Name Application_Server
Baseline Basic_Server
Type Webserver
Version 1.0
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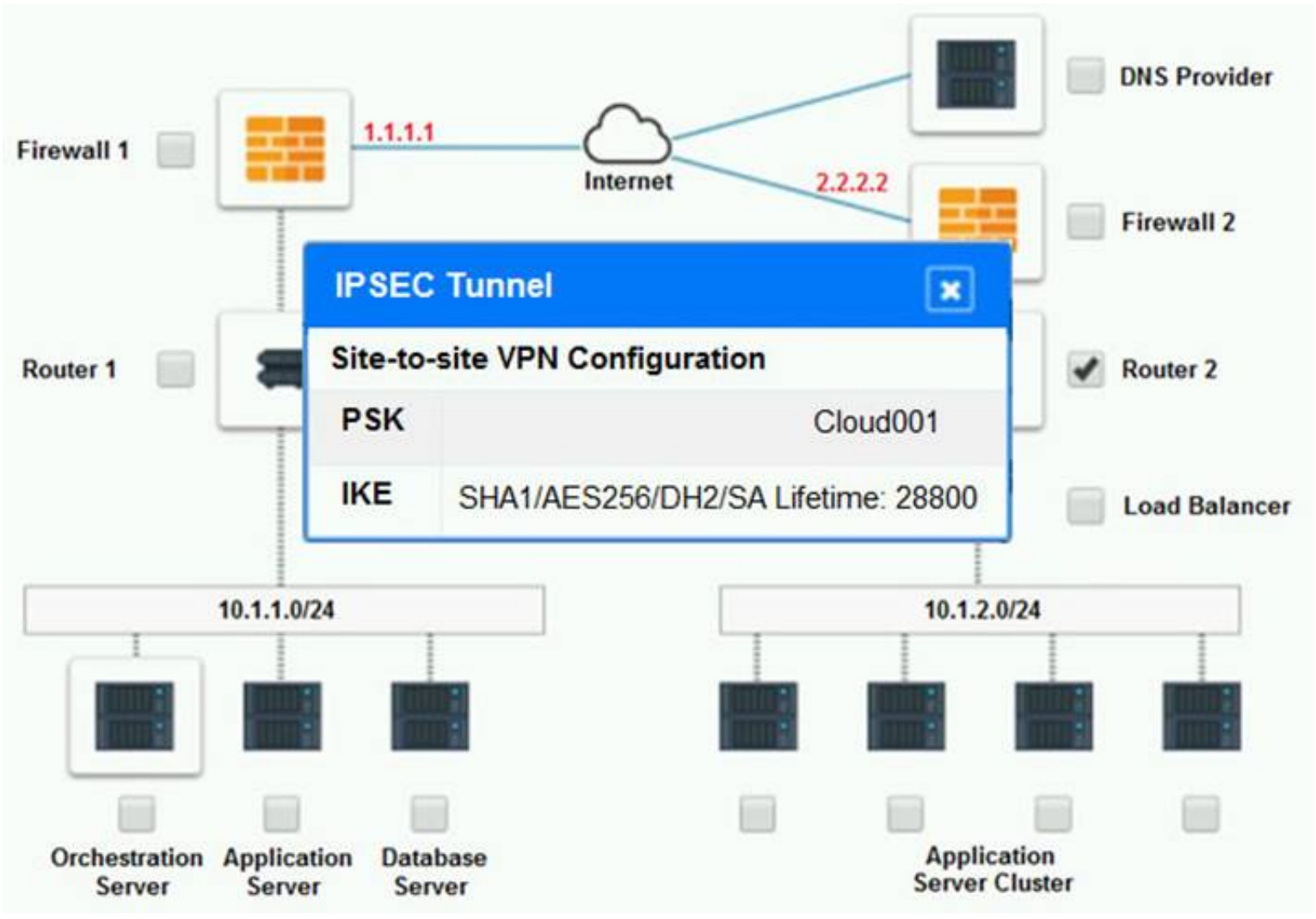
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Router 2
Load Balancer
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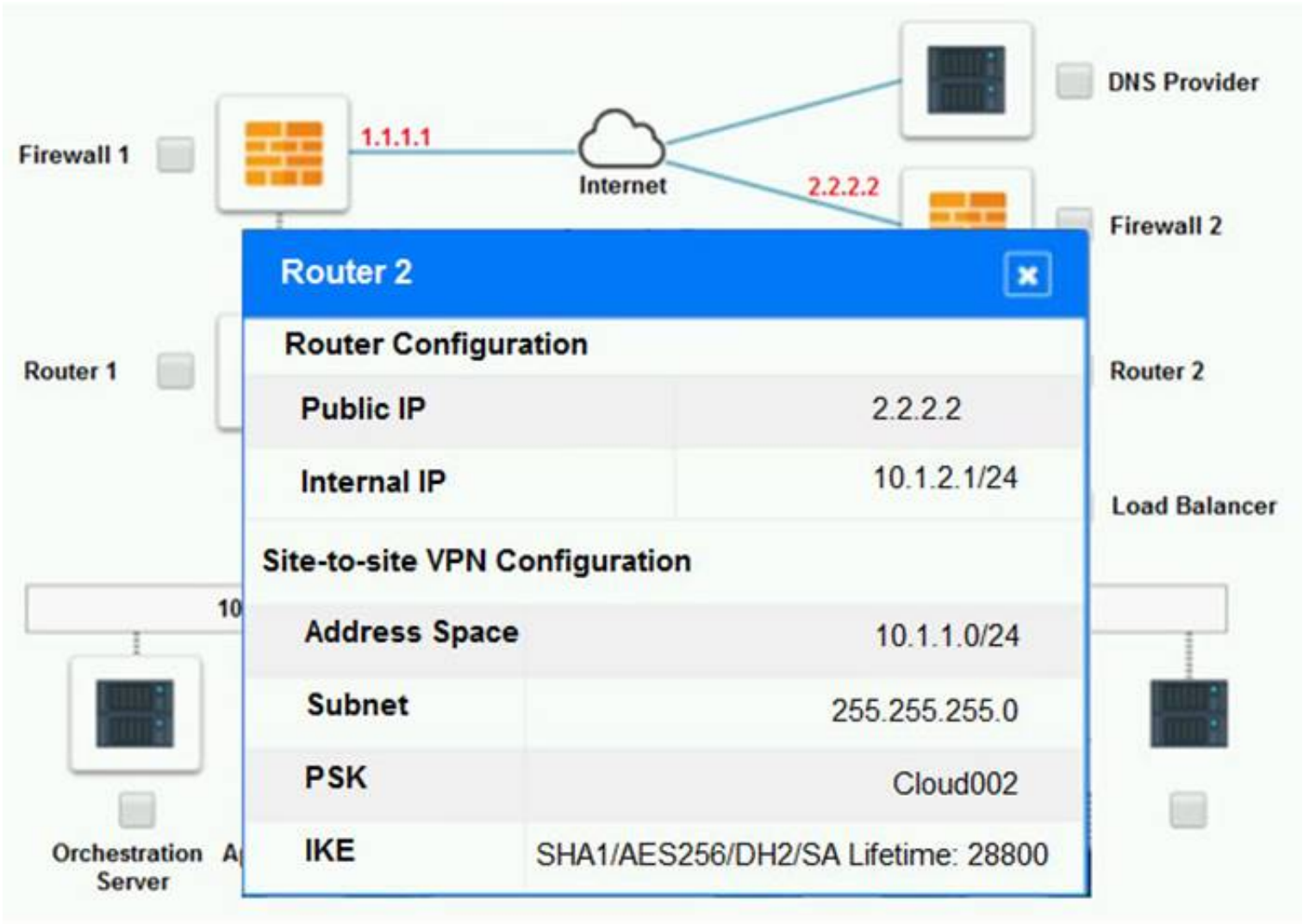
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Internal IP
10.1.2.1/24
Router 1
Router 2
Load Balancer
Site-to-site VPN Configuration
Address Space
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Cloud002
IKE
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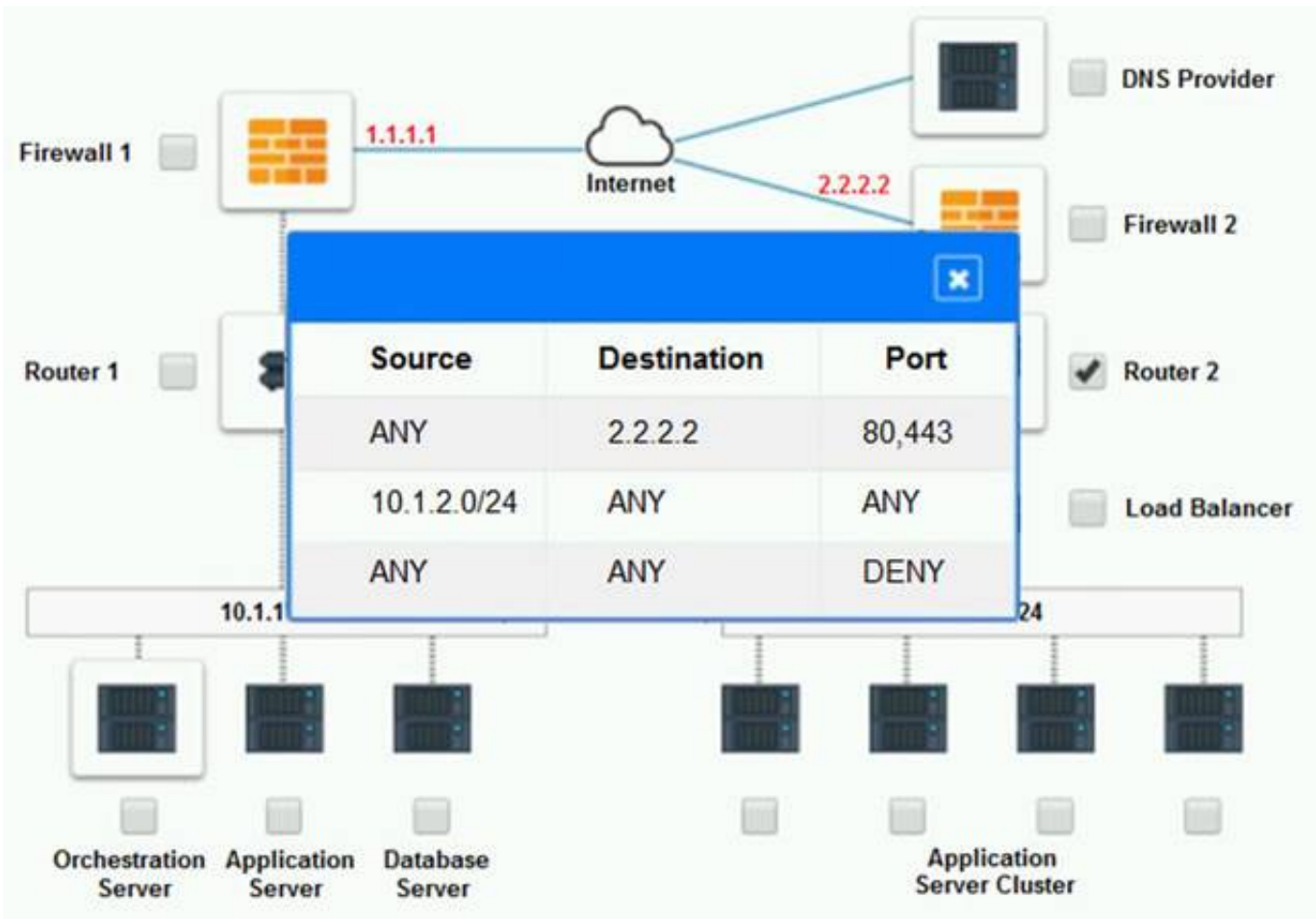
Orchestration Server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Router 2
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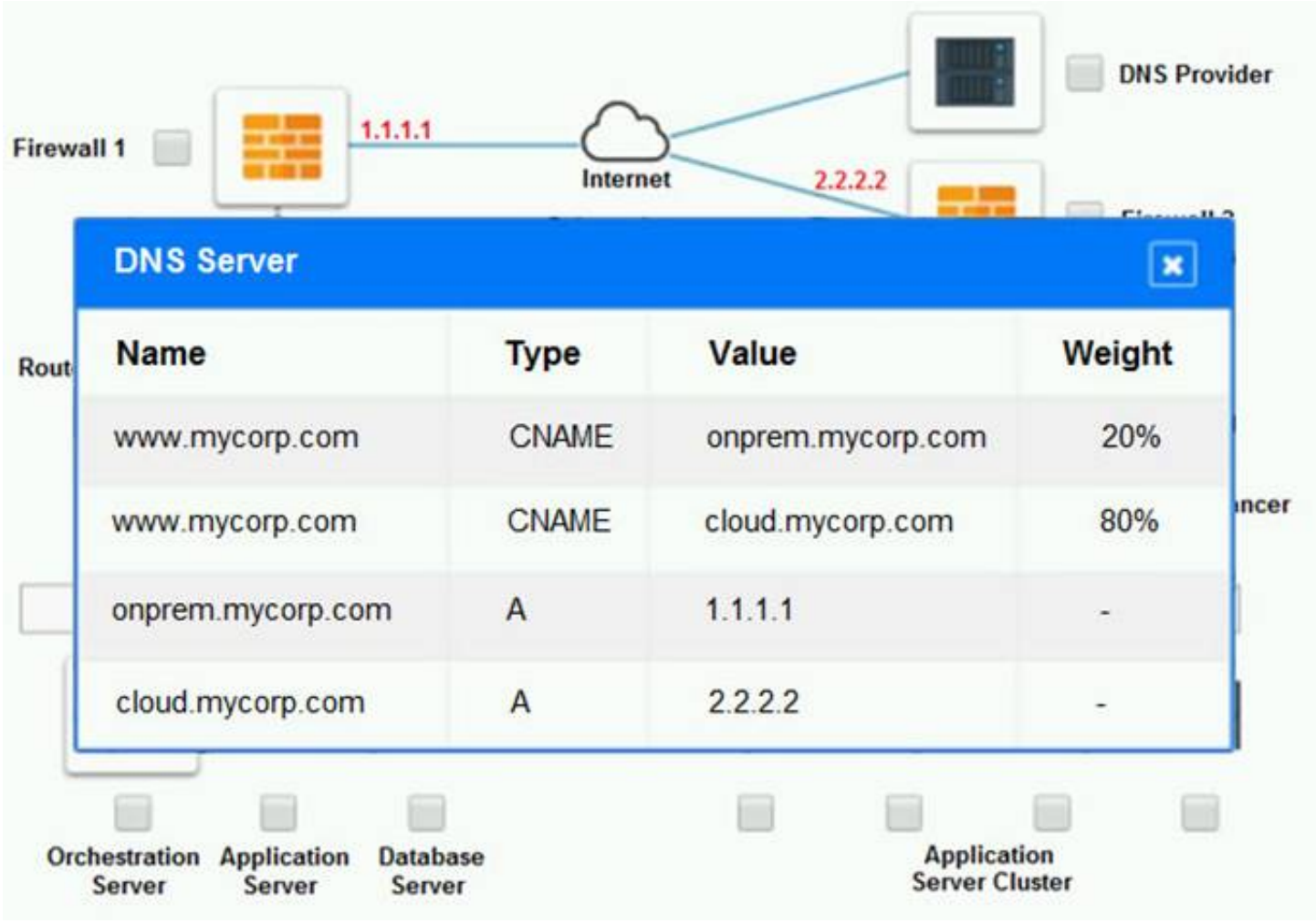
ANY
ANY
ANY
DENY
Orchestration Server
Application Server
Database Server
Application Server Cluster



Part 2:
Only select a maximum of TWO options from the multiple choice question

- ☐ Deploy a Replica of the Database Server in the Cloud Provider.
- ☐ Update the PSK (Pre-shared key) in Router 2.
- ☐ Update the A record on the DNS from 2.2.2.2 to 1.1.1.1.
- ☐ Promote deny All to allow All in Firewall 1 and Firewall 2.
- ☐ Change the Address Space on Router 2.
- ☐ Change internal IP Address of Router 1.
- ☐ Reverse the Weight property in the two CNAME records on the DNS.
- ☐ Add the Application Server at on-premises to the Load Balancer.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
See explanation below.

- Change the Address Space on Router2
- Update the PSK (Pre-shared key in Router2)

NEW QUESTION 124
A systems administrator swapped a failed hard drive on a server with a RAID 5 array. During the RAID resynchronization, a second hard drive failed.
Which of the following actions will make the server fully operational?

A. Restart the RAID resynchronization process
B. Perform a P2V migration of the server
C. Swap the failed hard drive with a fresh one
D. Restore the server from backup

Answer: A

NEW QUESTION 127
A system administrator is migrating a bare-metal server to the cloud. Which of the following types of migration should the systems administrator perform to accomplish this task?

A. V2V
B. V2P
C. P2P
D. P2V

Answer: D

NEW QUESTION 132
A cloud engineer is responsible for managing a public cloud environment. There is currently one virtual network that is used to host the servers in the cloud environment. The environment is rapidly growing, and the network does not have any more available IP addresses. Which of the following should the engineer do to accommodate additional servers in this environment?

A. Create a VPC and peer the networks.
B. Implement dynamic routing.
C. Enable DHCP on the networks.
D. Obtain a new IPAM subscription.

Answer: A

NEW QUESTION 134
A systems administrator is using VMs to deploy a new solution that contains a number of application VMs. Which of the following would provide high availability to the application environment in case of hypervisor failure?

A. Anti-affinity rules
B. Cold migration
C. Live migration
D. Affinity rules

Answer: A

NEW QUESTION 135
A systems administrator is trying to reduce storage consumption. Which of the following file types would benefit the MOST from compression?

A. System files
B. User backups
C. Relational database
D. Mail database

Answer: B

NEW QUESTION 136
An administrator is performing an in-place upgrade on a quest VM operating system.
Which of the following can be performed as a quick method to roll back to an earlier state, if necessary?

A. A configuration file backup
B. A full backup of the database
C. A differential backup
D. A VM-level snapshot

Answer: D

NEW QUESTION 139
A systems administrator is deploying a GPU-accelerated VDI solution. Upon requests from several users, the administrator installs an older version of the OS on their virtual workstations. The majority of the VMs run the latest LTS version of the OS.
Which of the following types of drivers will MOST likely ensure compatibility will all virtual workstations?

A. Alternative community drivers
B. Legacy drivers
C. The latest drivers from the vendor’s website
D. The drivers from the OS repository

Answer: C

NEW QUESTION 140
A systems administrator is configuring network management but is concerned about confidentiality. Which of the following should the administrator configure to address this concern?

A. Community strings
B. IPSec tunnels
C. ACLs

Answer: C

NEW QUESTION 143
Which of the following is relevant to capacity planning in a SaaS environment?

A. Licensing
B. A hypervisor
C. Clustering
D. Scalability

Answer: D

NEW QUESTION 147
A VDI administrator has received reports from the drafting department that rendering is slower than normal. Which of the following should the administrator check FIRST to optimize the performance of the VDI infrastructure?

A. GPU
B. CPU
C. Storage
D. Memory

Answer: D

NEW QUESTION 149
A systems administrator is configuring a storage array.
Which of the following should the administrator configure to set up mirroring on this array?

A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 6

Answer: B

NEW QUESTION 152
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