

➤ **Vendor: CompTIA**

➤ **Exam Code: CV0-003**

➤ **Exam Name: CompTIA Cloud+ Certification Exam**

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QUESTION 55

A company has an in-house-developed application. The administrator wants to utilize cloud services for additional peak usage workloads. The application has a very unique stack of dependencies.

Which of the following cloud service subscription types would BEST meet these requirements?

- A. PaaS
- B. SaaS
- C. DBaaS
- D. IaaS

Answer: D

QUESTION 56

Users are experiencing slow response times from an intranet website that is hosted on a cloud platform. There is a site-to-site VPN connection to the cloud provider over a link of 100Mbps.

Which of the following solutions will resolve the issue the FASTEST?

- A. Change the connection to point-to-site VPN
- B. Order a direct link to the provider
- C. Enable quality of service
- D. Upgrade the link to 200Mbps

Answer: C

QUESTION 57

SIMULATION

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).

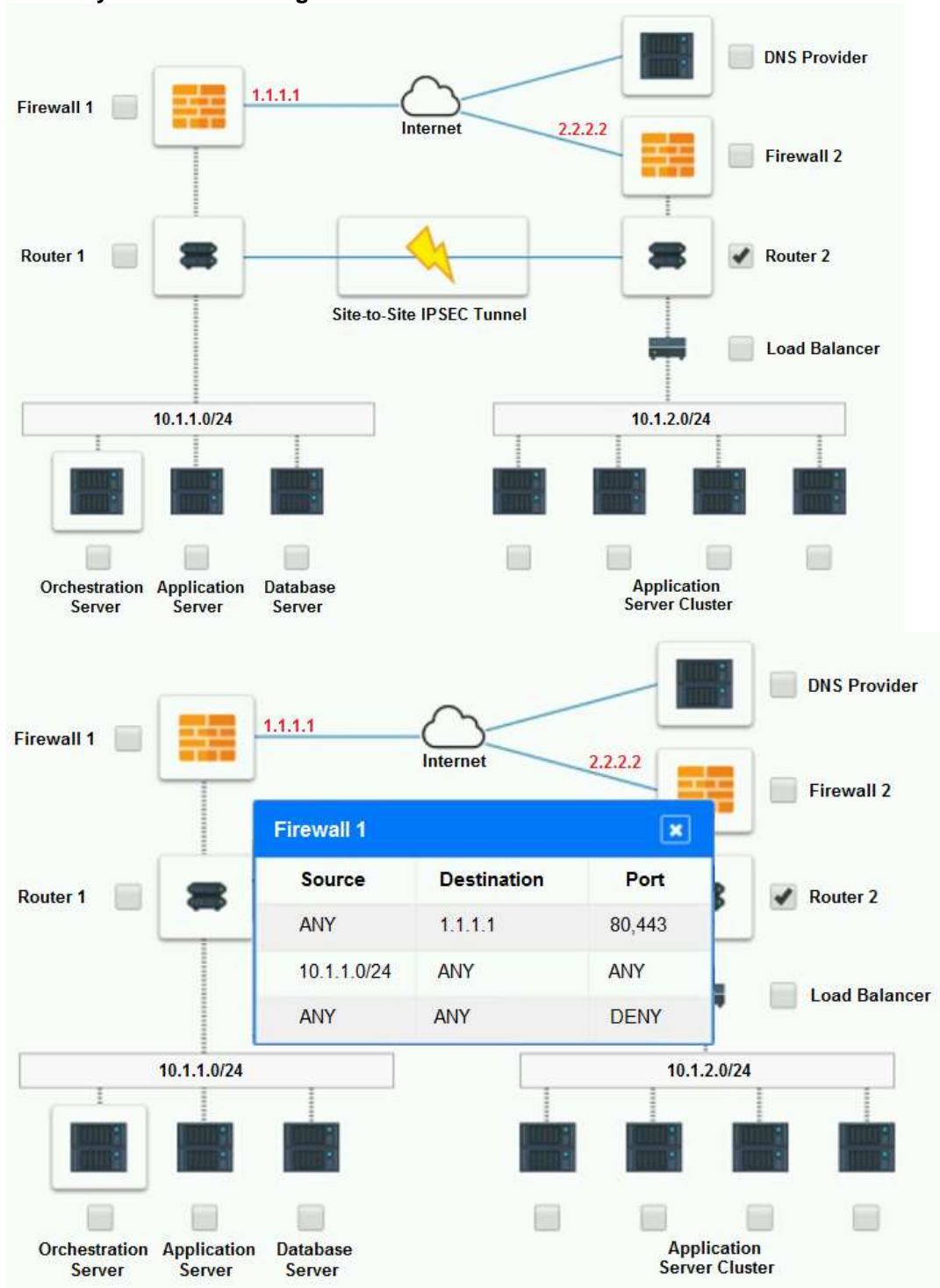
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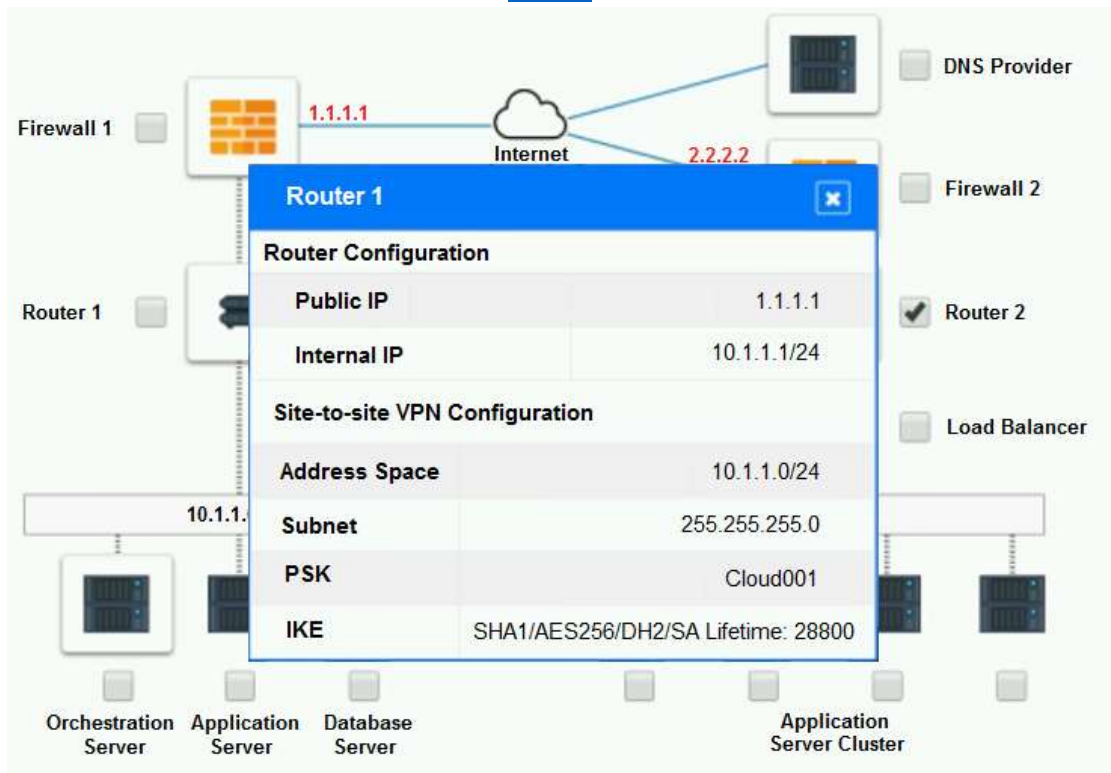
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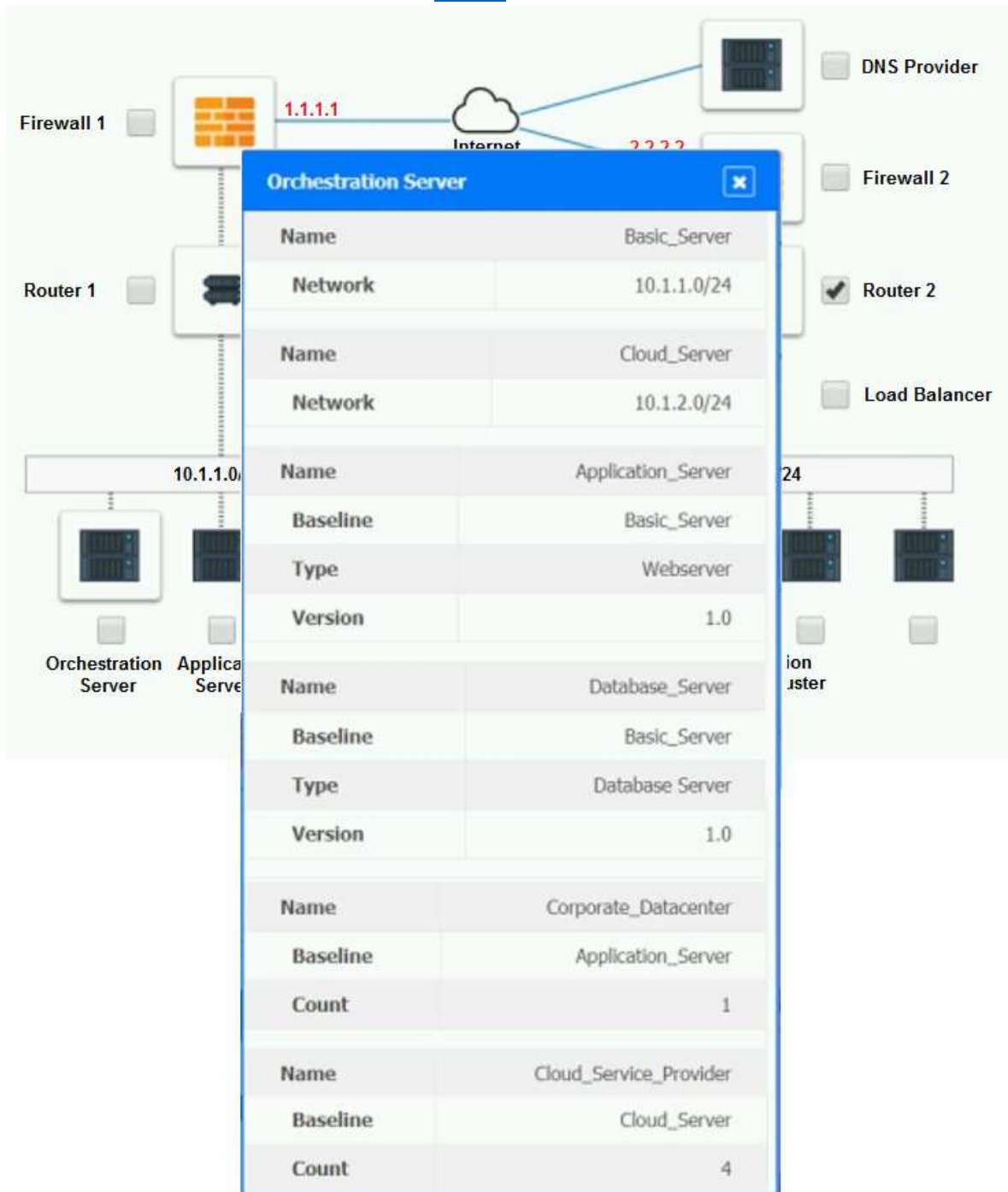
Part 2:

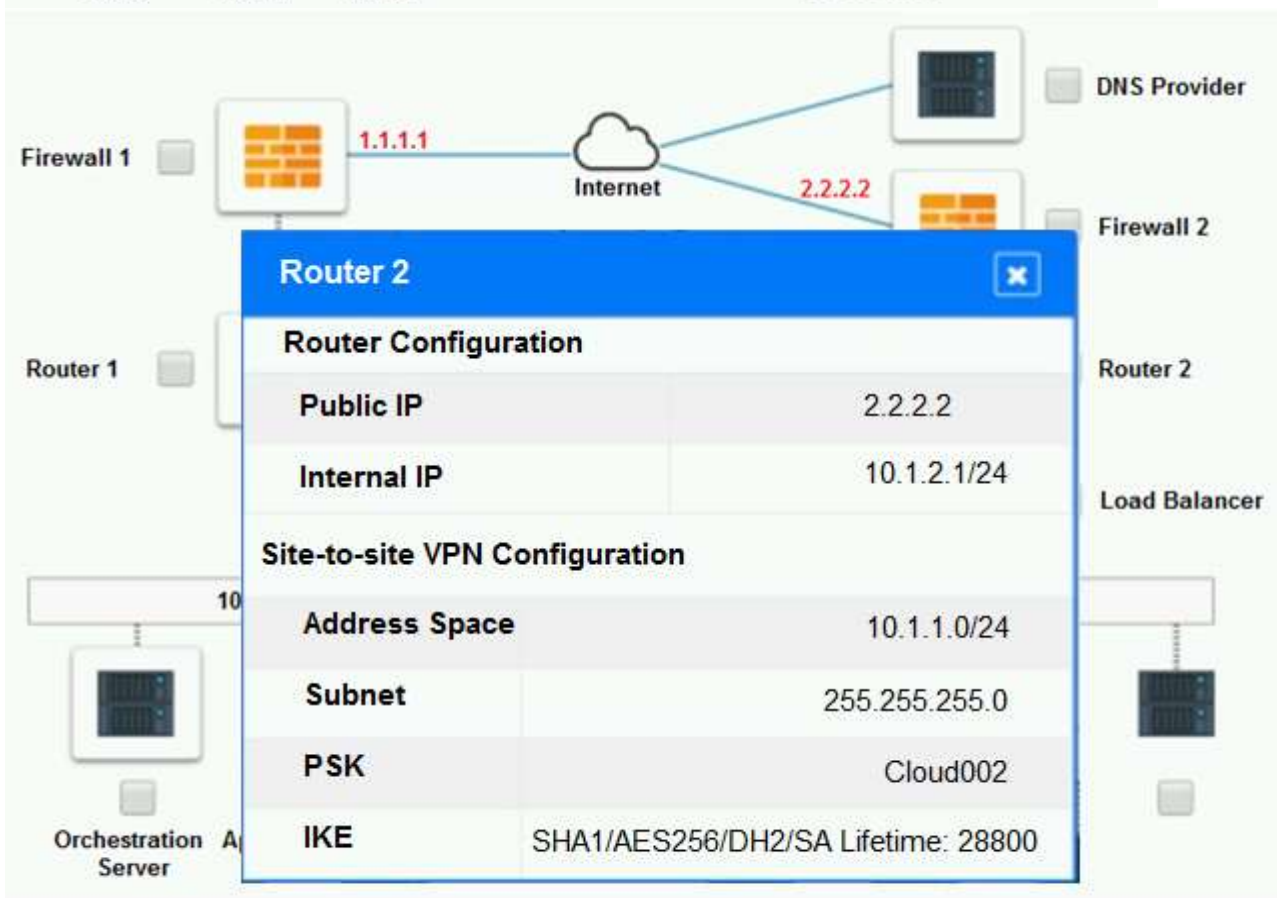
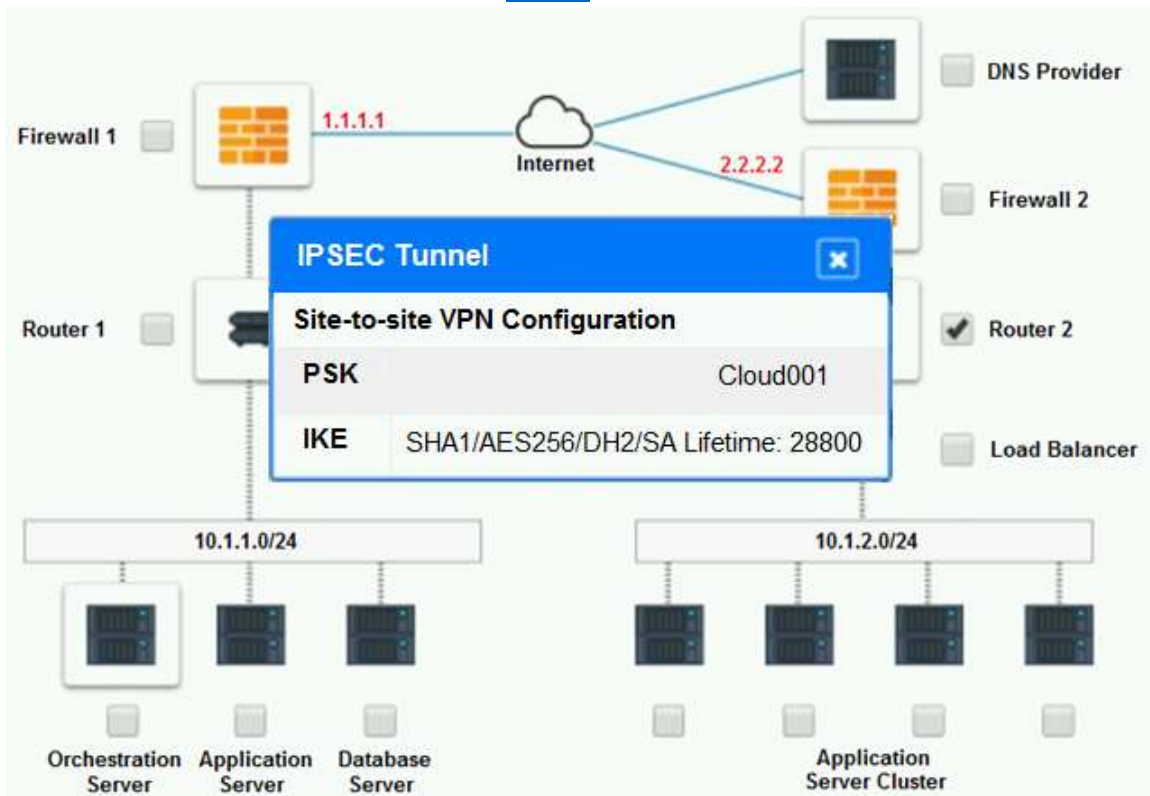
- Identify the correct options to provide adequate configuration for hybrid cloud architecture.

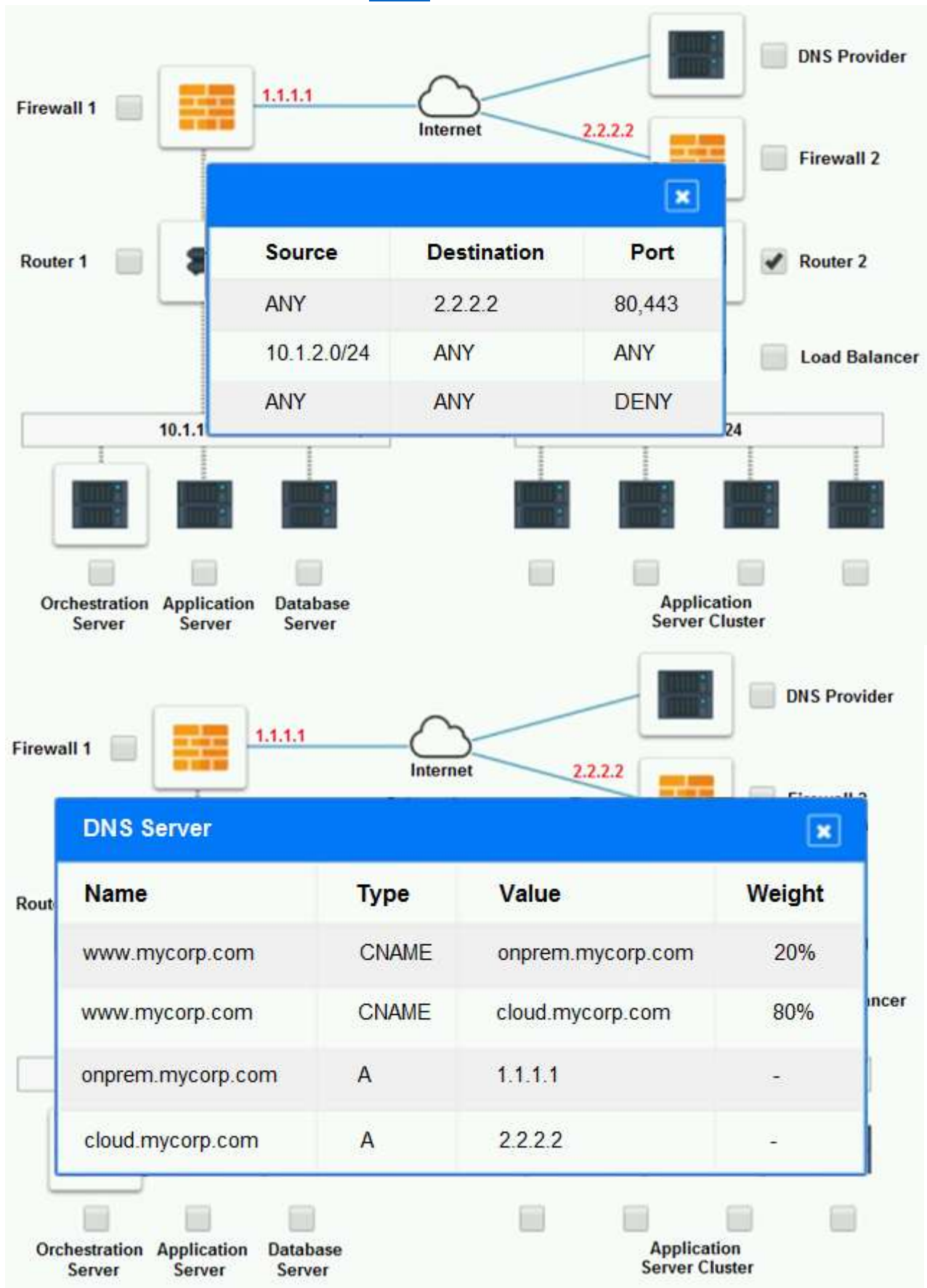
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Part 1:
Cloud Hybrid Network Diagram










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.

Answer:

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

QUESTION 58**SIMULATION**

The QA team is testing a newly implemented clinical trial management (CTM) SaaS application that uses a business intelligence application for reporting. The UAT users were instructed to use HTTP and HTTPS.

Refer to the application dataflow:

1A – The end user accesses the application through a web browser to enter and view clinical data.

2A – The CTM application server reads/writes data to/from the database server.

1B – The end user accesses the application through a web browser to run reports on clinical data.

2B – The CTM application server makes a SOAP call on a non-privileged port to the BI application server.

3B – The BI application server gets the data from the database server and presents it to the CTM application server.

When UAT users try to access the application using <https://ctm.app.com> or <http://ctm.app.com>, they get a message stating: "Browser cannot display the webpage." The QA team has raised a ticket to troubleshoot the issue.

INSTRUCTIONS

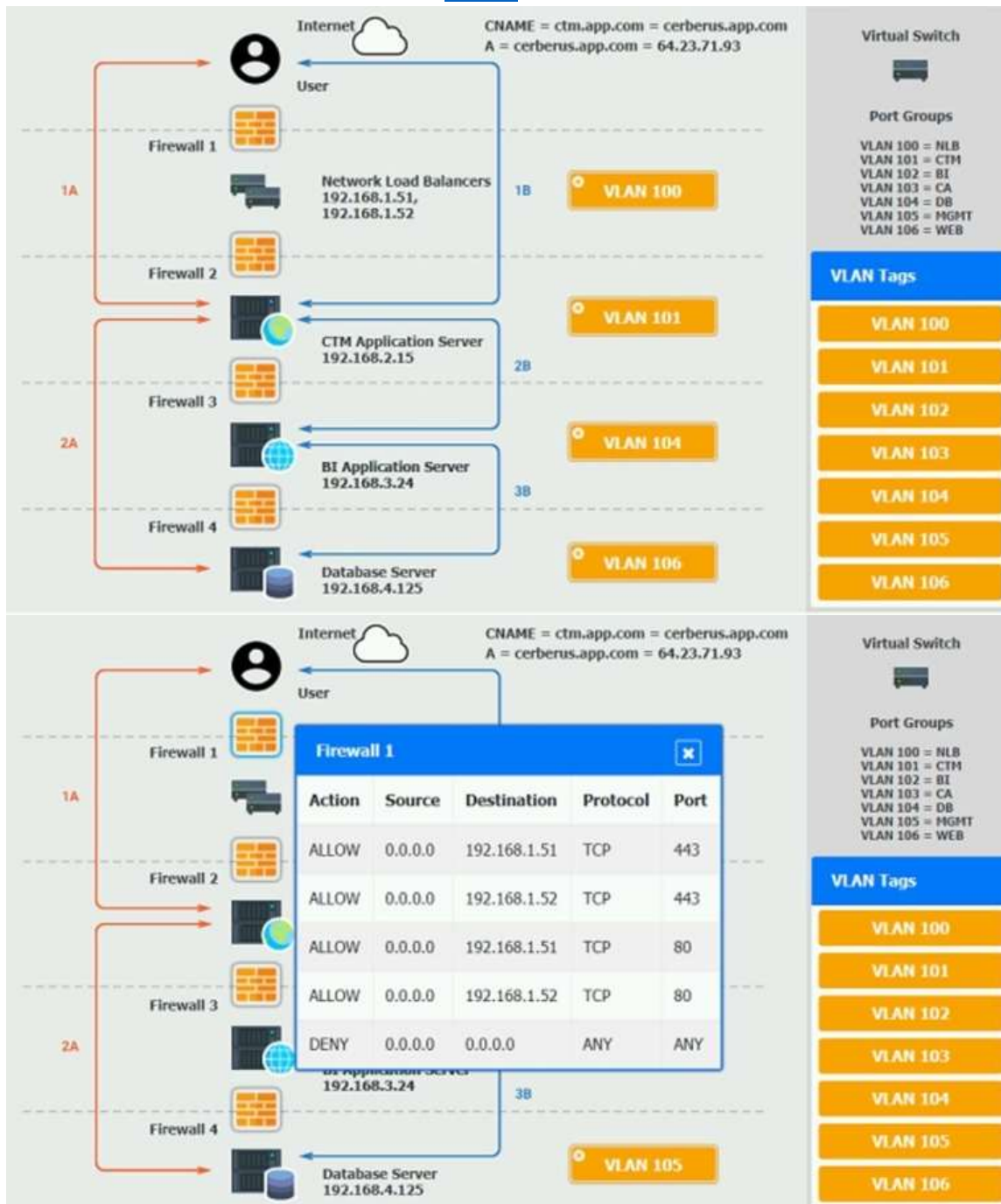
You are a cloud engineer who is tasked with reviewing the firewall rules as well as virtual network settings.

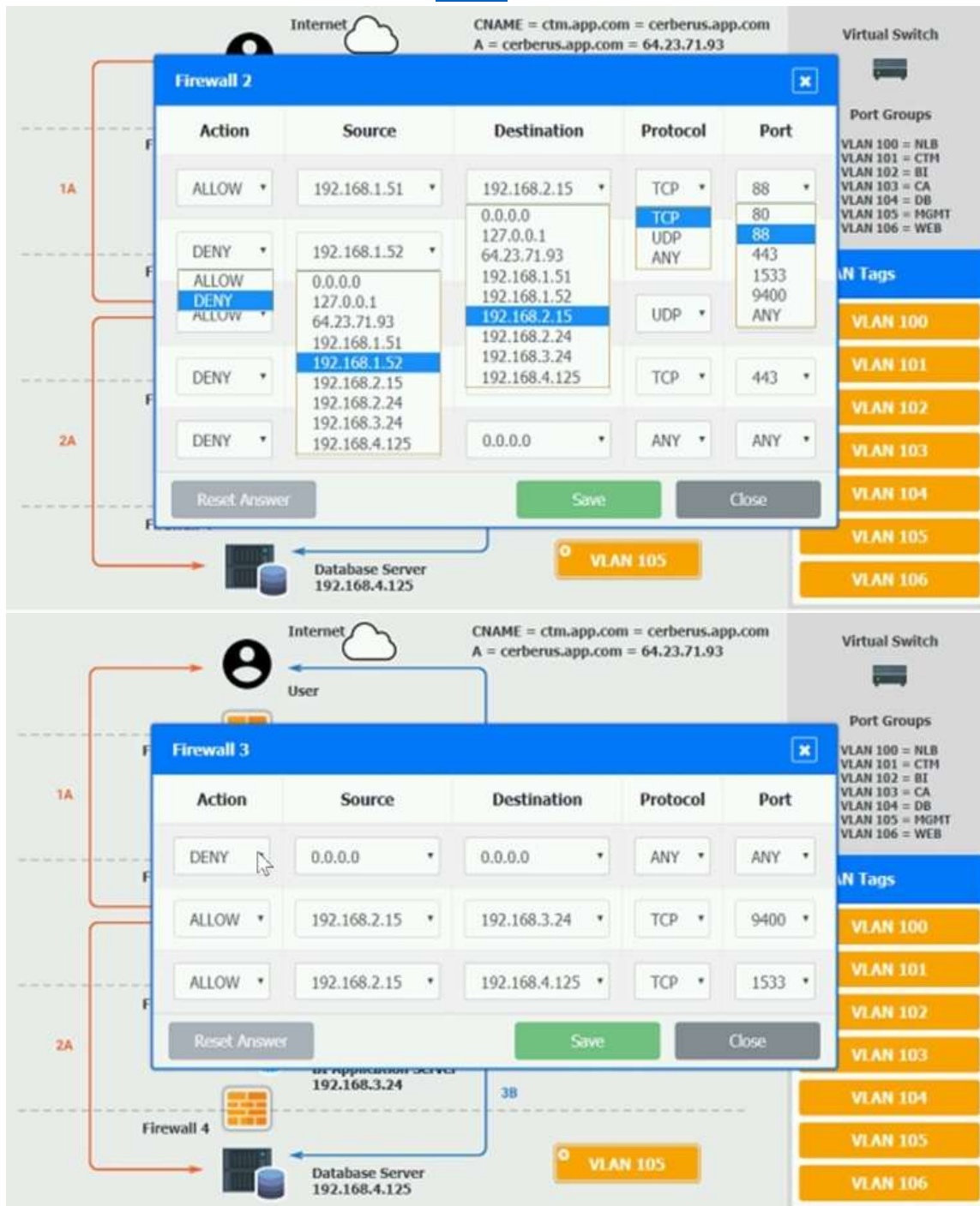
You should ensure the firewall rules are allowing only the traffic based on the dataflow.

You have already verified the external DNS resolution and NAT are working.

Verify and appropriately configure the VLAN assignments and ACLs. Drag and drop the appropriate VLANs to each tier from the VLAN Tags table. Click on each Firewall to change ACLs as needed.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.





Firewall 2 Configuration:

Action	Source	Destination	Protocol	Port
ALLOW	192.168.1.51	192.168.2.15	TCP	88
DENY	192.168.1.52	192.168.2.15	TCP	88
ALLOW	0.0.0.0	192.168.2.15	UDP	1533
DENY	192.168.2.15	192.168.4.125	TCP	443
DENY	192.168.2.24	192.168.4.125	ANY	ANY

Firewall 3 Configuration:

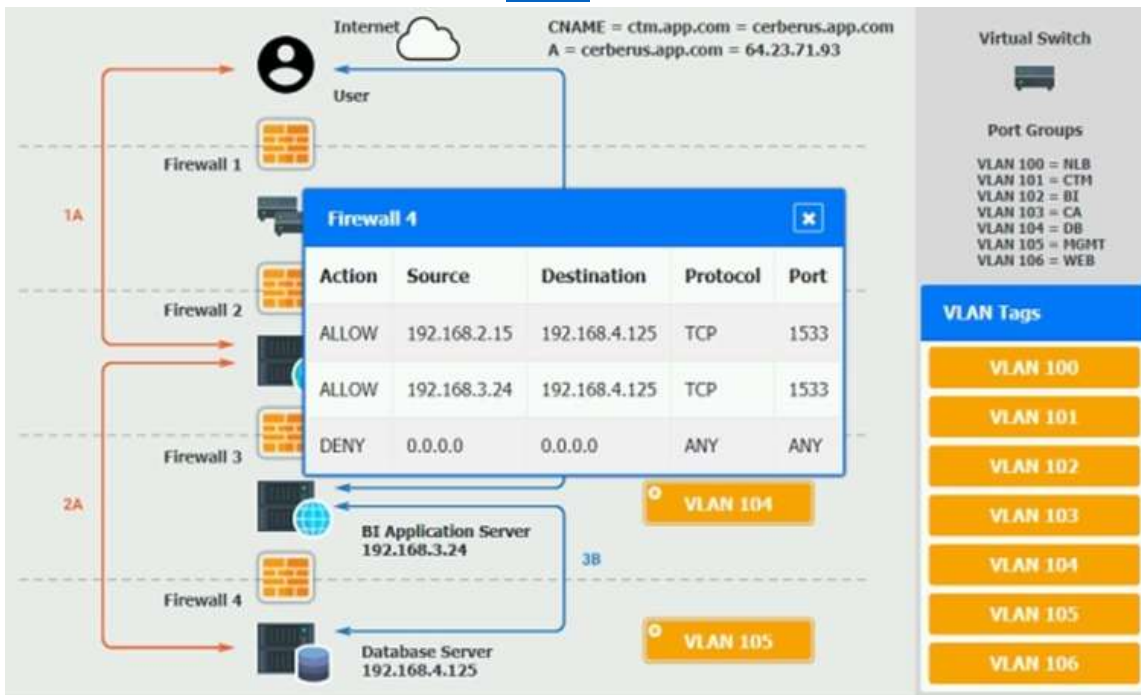
Action	Source	Destination	Protocol	Port
DENY	0.0.0.0	0.0.0.0	ANY	ANY
ALLOW	192.168.2.15	192.168.3.24	TCP	9400
ALLOW	192.168.2.15	192.168.4.125	TCP	1533

Virtual Switch Port Groups:

- VLAN 100 = NLB
- VLAN 101 = CTM
- VLAN 102 = BI
- VLAN 103 = CA
- VLAN 104 = DB
- VLAN 105 = MGMT
- VLAN 106 = WEB

IP Address List:

- VLAN 100: 192.168.1.101, 192.168.1.102, 192.168.1.103, 192.168.1.104, 192.168.1.105, 192.168.1.106
- VLAN 101: 192.168.2.101, 192.168.2.102, 192.168.2.103, 192.168.2.104, 192.168.2.105, 192.168.2.106
- VLAN 102: 192.168.3.101, 192.168.3.102, 192.168.3.103, 192.168.3.104, 192.168.3.105, 192.168.3.106
- VLAN 103: 192.168.4.101, 192.168.4.102, 192.168.4.103, 192.168.4.104, 192.168.4.105, 192.168.4.106
- VLAN 104: 192.168.5.101, 192.168.5.102, 192.168.5.103, 192.168.5.104, 192.168.5.105, 192.168.5.106
- VLAN 105: 192.168.6.101, 192.168.6.102, 192.168.6.103, 192.168.6.104, 192.168.6.105, 192.168.6.106
- VLAN 106: 192.168.7.101, 192.168.7.102, 192.168.7.103, 192.168.7.104, 192.168.7.105, 192.168.7.106



Answer:

On firewall 3, change the DENY 0.0.0.0 entry to rule 3 not rule 1.

QUESTION 59

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

Explanation:

<https://www.softwaretestinghelp.com/regression-testing-tools-and-methods/>

QUESTION 60

A marketing team is using a SaaS-based service to send emails to large groups of potential customers. The internally managed CRM system is configured to generate a list of target customers automatically on a weekly basis, and then use that list to send emails to each customer as part of a marketing campaign. Last week, the first email campaign sent emails successfully to 3,000 potential customers. This week, the email campaign attempted to send out 50,000 emails, but only 10,000 were sent.

Which of the following is the MOST likely reason for not sending all the emails?

- A. API request limit
- B. Incorrect billing account
- C. Misconfigured auto-scaling
- D. Bandwidth limitation

Answer: A

Explanation:

<https://developers.google.com/analytics/devguides/config/mgmt/v3/limits-quotas>

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QUESTION 61

A VDI administrator has received reports of poor application performance. Which of the following should the administrator troubleshoot FIRST?

- A. The network environment
- B. Container resources
- C. Client devices
- D. Server resources

Answer: D

QUESTION 62

Due to a policy change, a few of a customer's application VMs have been migrated to synchronously replicated storage. The customer now reports that performance is lower. The systems administrator checks the resource usage and discovers CPU utilization is at 60% and available memory is at 30%. Which of the following is the MOST likely cause?

- A. There is not enough vCPU assigned
- B. The application is not compatible with the new settings
- C. The new configuration is adding latency
- D. The memory of the VM is underallocated

Answer: B

QUESTION 63

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

QUESTION 64

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

QUESTION 65

A company is utilizing a private cloud solution that is hosted within its datacenter. The company wants to launch a new business application, which requires the resources below:

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Maximum concurrent sessions	Number of nodes required	Required per-node vCPU	Required per-node RAM
1,000	2	4	32
5,000	4	6	64
10,000	6	8	64
25,000	8	8	128

The current private cloud has 30 vCPUs and 512GB RAM available. The company is looking for a quick solution to launch this application, with expected maximum sessions to be close to 24,000 at launch and an average of approximately 5,000 sessions.

Which of the following solutions would help the company accommodate the new workload in the SHORTEST amount of time and with the maximum financial benefits?

- A. Configure auto-scaling within the private cloud
- B. Set up cloud bursting for the additional resources
- C. Migrate all workloads to a public cloud provider
- D. Add more capacity to the private cloud

Answer: A