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Exam : **CV1-003**

Title : **CompTIA Cloud+
Certification Beta Exam**

Version : **DEMO**

1.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:

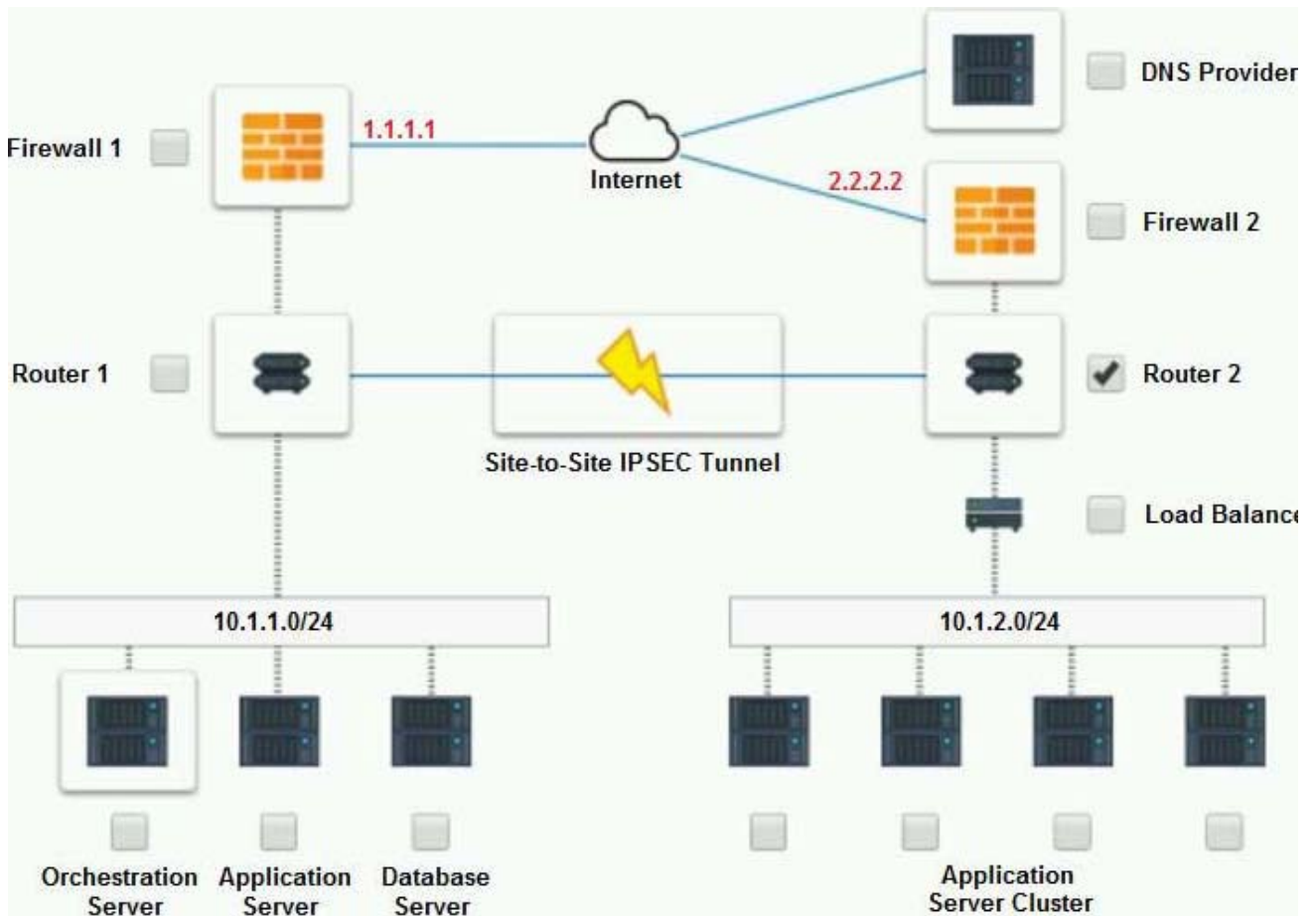
- Analyze the configuration of the following components: DNS, Firewall 1, Firewall 2, Router 1, Router 2, VPN and Orchestrator Server.
- Identify the problematic device(s).

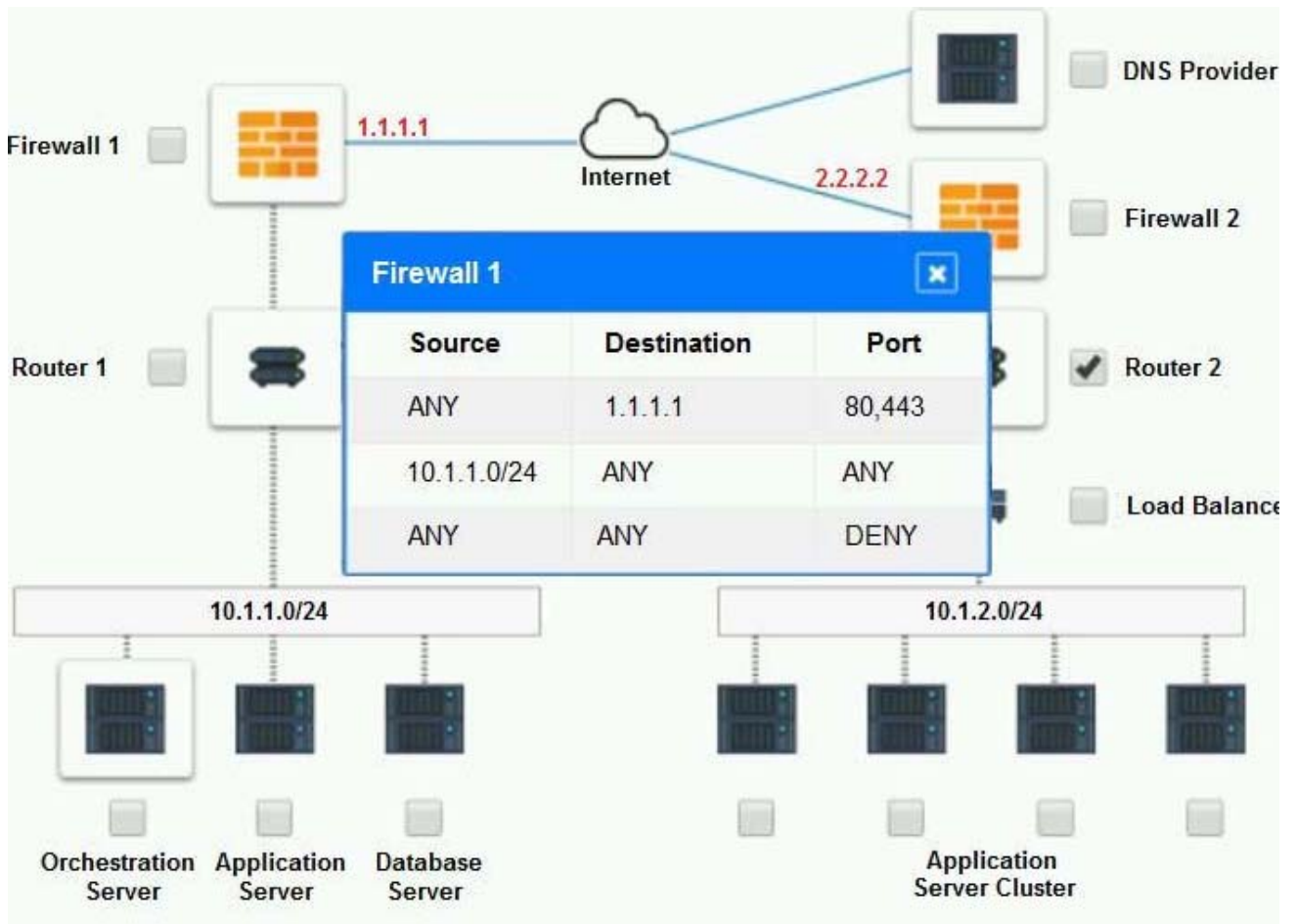
Part 2:

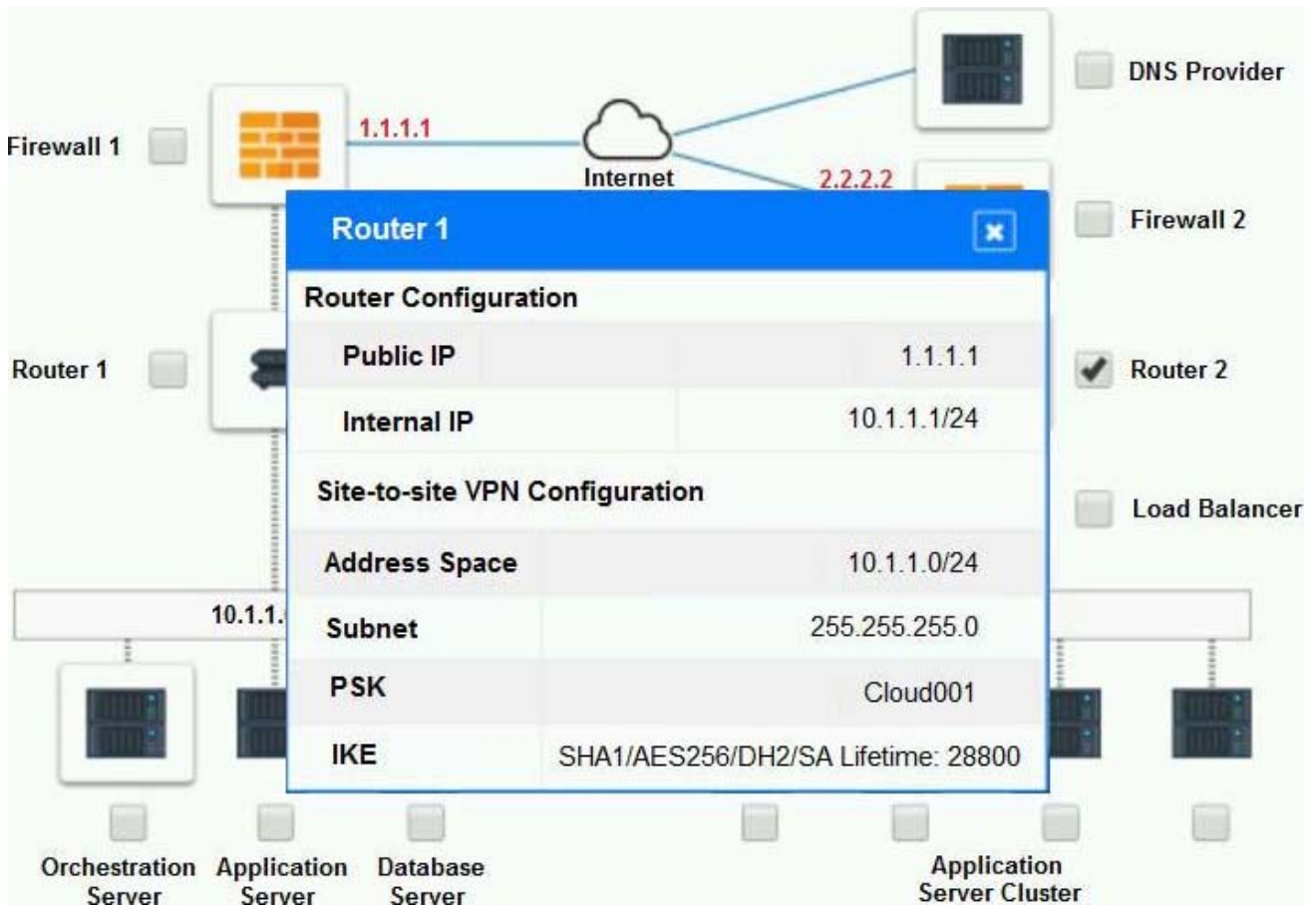
- Identify the correct options to provide adequate configuration for hybrid cloud architecture.
- If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Part 1:

Cloud Hybrid Network Diagram

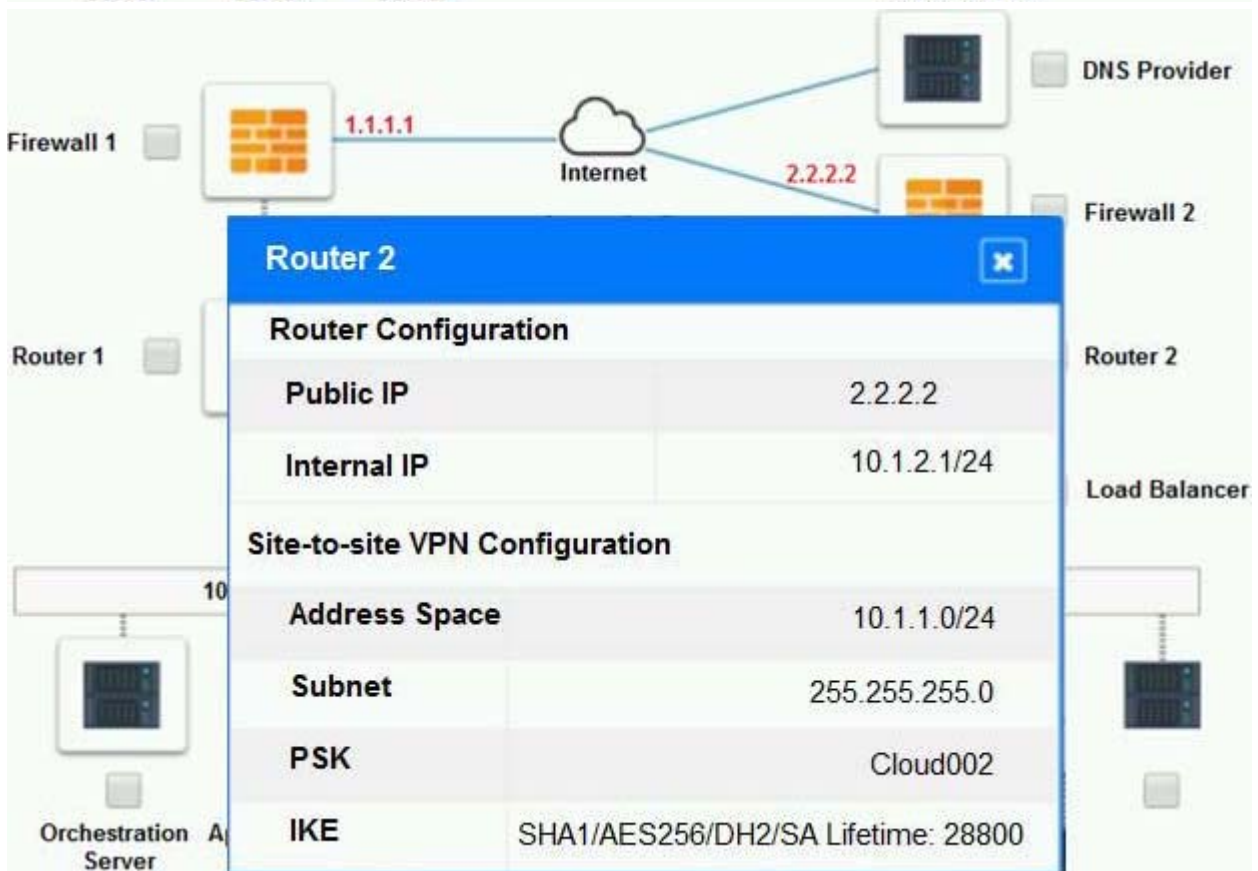
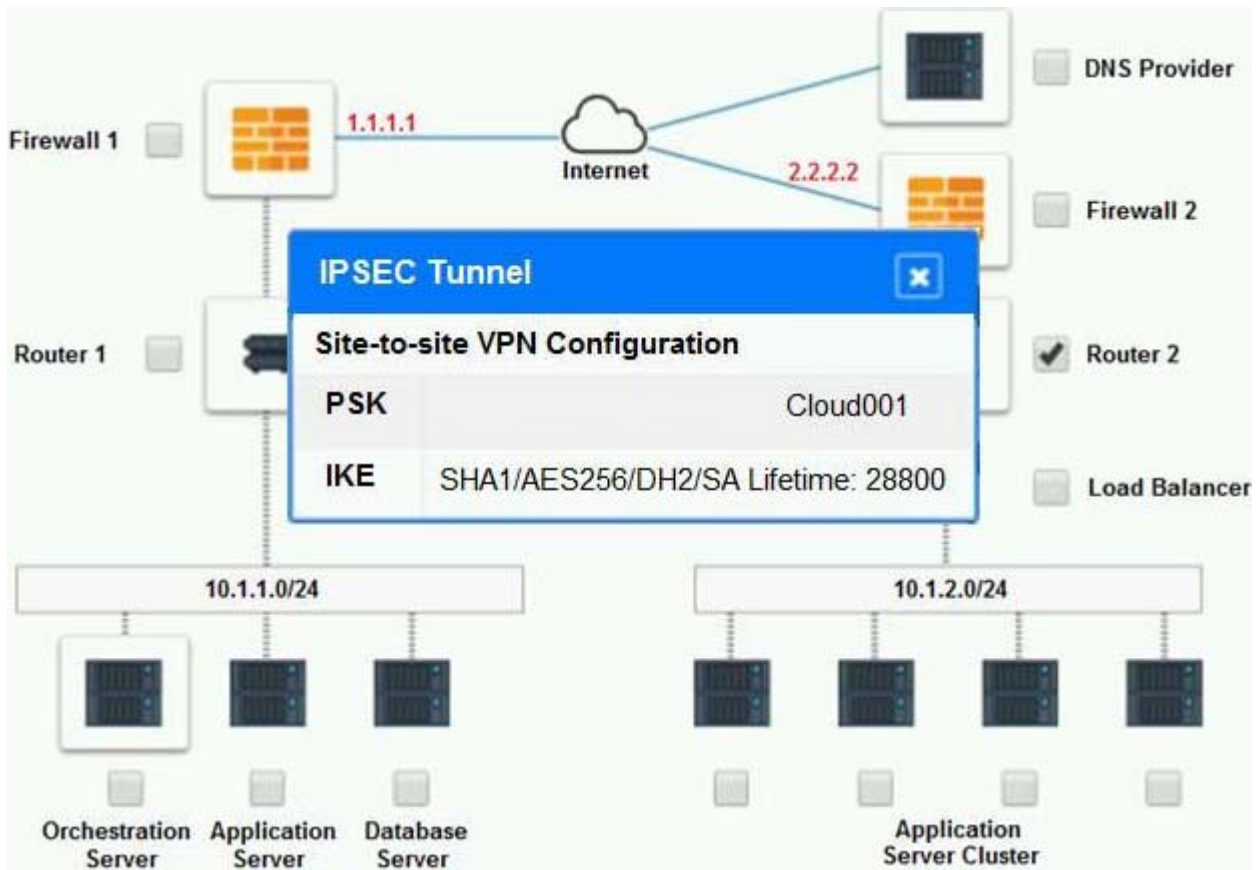


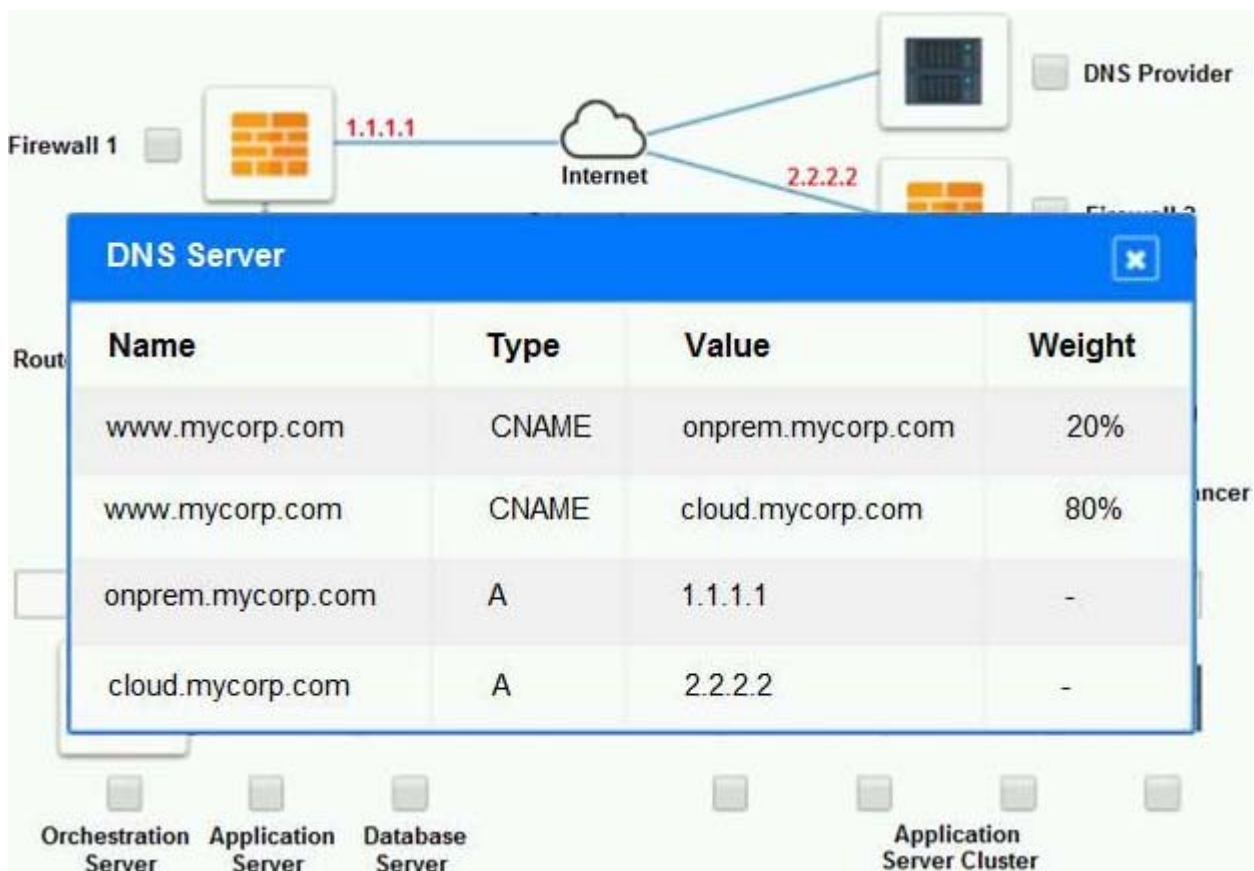
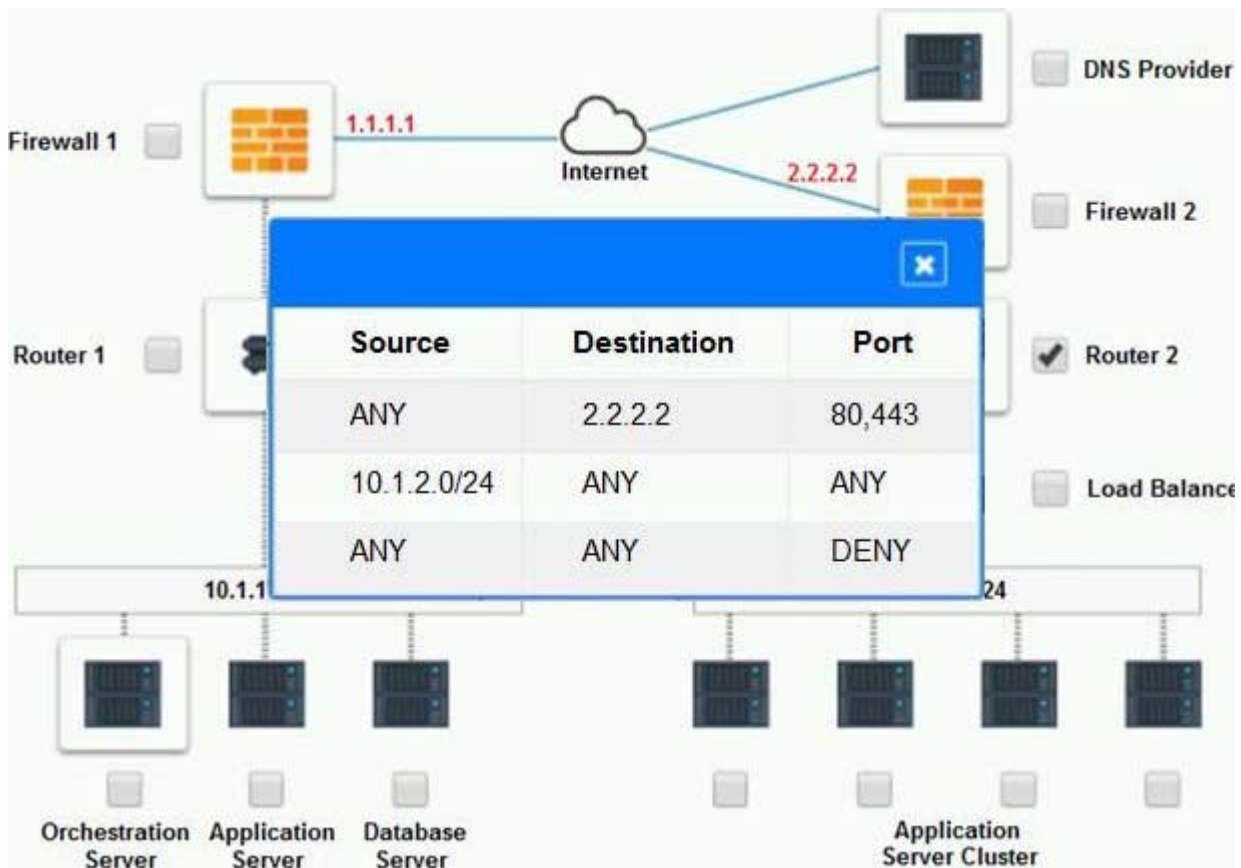




The diagram shows a network topology with various components: Firewall 1, Router 1, Internet cloud, DNS Provider, Firewall 2, Router 2, Load Balance, and two Application Servers. The IP address 10.1.1.0 is visible on the left. A pop-up window titled 'Orchestration Server' is overlaid on the diagram, displaying a list of server configurations.

Orchestration Server	
Name	Basic_Server
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
Name	Database_Server
Baseline	Basic_Server
Type	Database Server
Version	1.0
Name	Corporate_Datacenter
Baseline	Application_Server
Count	1
Name	Cloud_Service_Provider
Baseline	Cloud_Server
Count	4





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)

2.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.

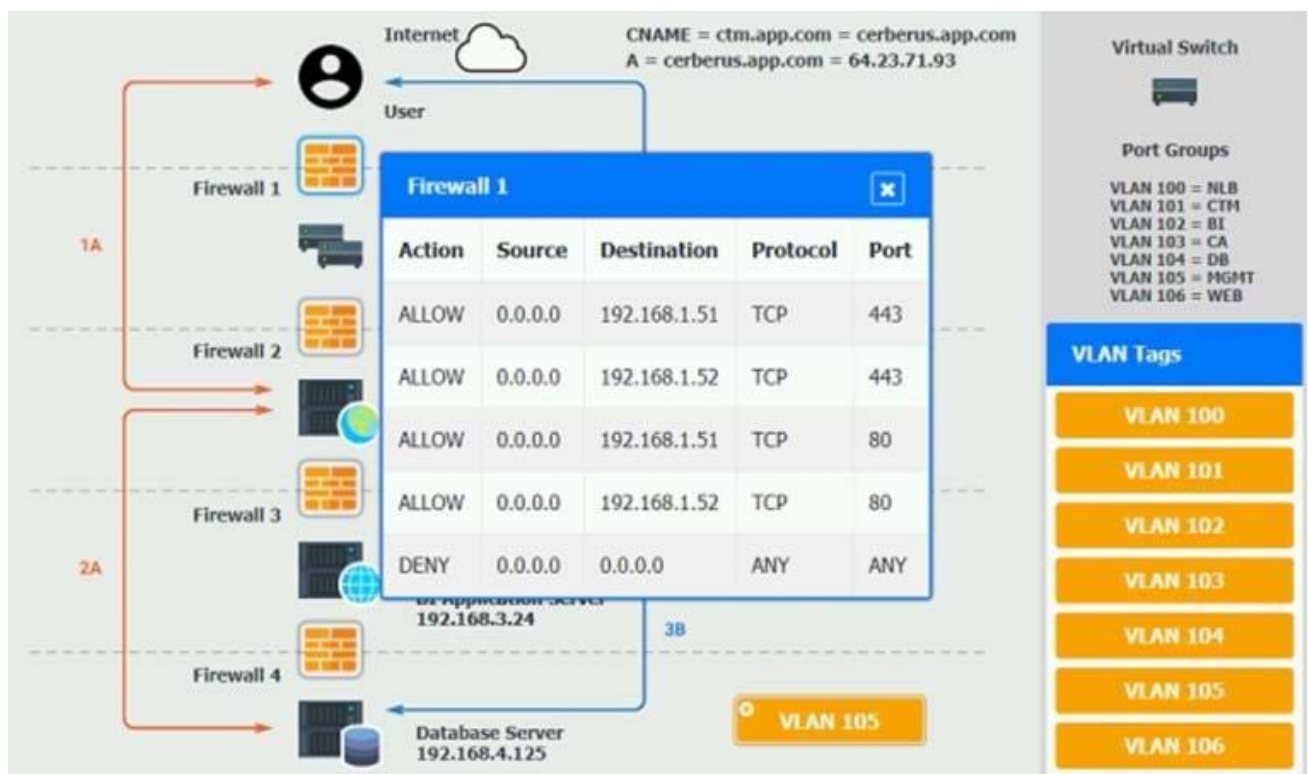
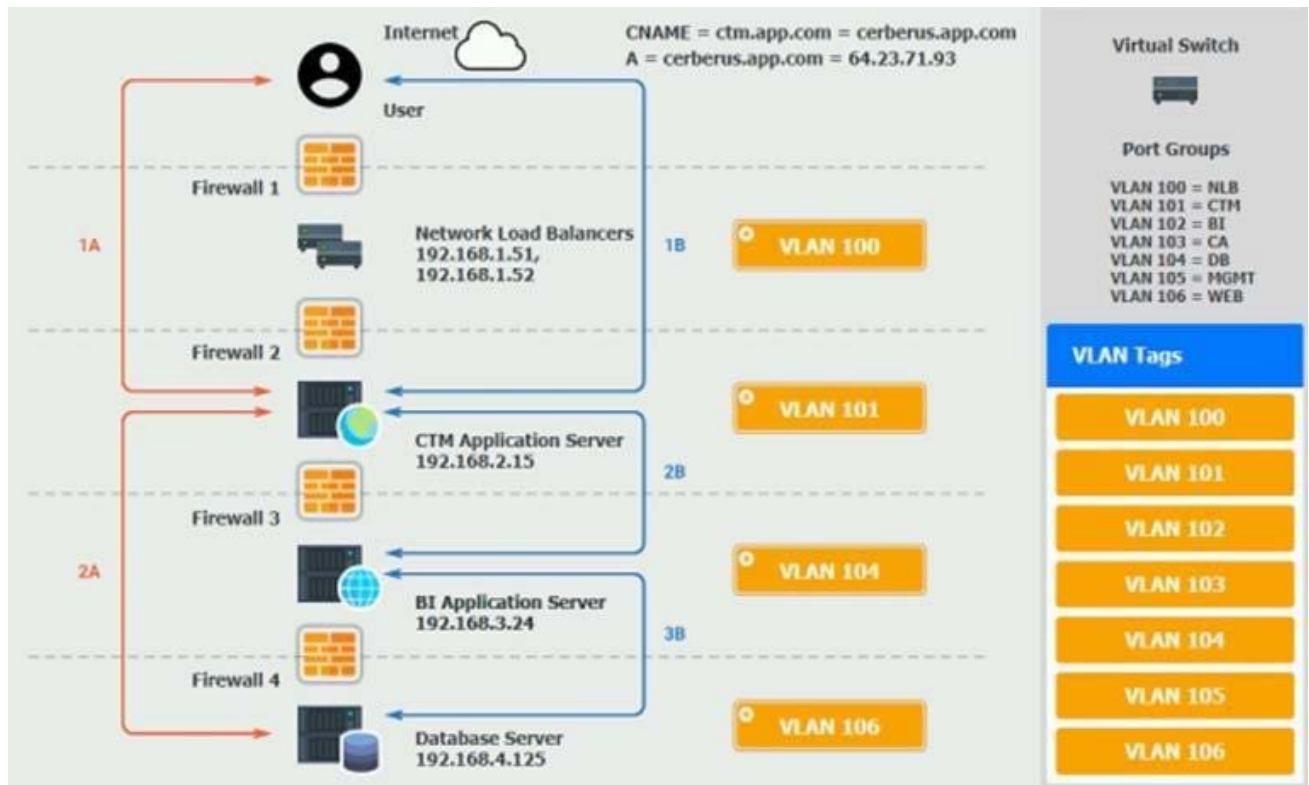
You should ensure the firewall rules are allowing only the traffic based on the dataflow.

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.



Internet CNAME = ctm.app.com = cerberus.app.com
A = cerberus.app.com = 64.23.71.93

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

VLAN Tags
VLAN 100
VLAN 101
VLAN 102
VLAN 103
VLAN 104
VLAN 105
VLAN 106

Firewall 2

Action	Source	Destination	Protocol	Port
ALLOW	192.168.1.51	192.168.2.15	TCP	88
DENY	192.168.1.52	0.0.0.0 127.0.0.1 64.23.71.93 192.168.1.51 192.168.1.52 192.168.2.24 192.168.3.24 192.168.4.125	TCP UDP ANY	80 88 443 1533 9400 ANY
DENY	192.168.2.15	192.168.2.24 192.168.3.24 192.168.4.125	UDP	443
DENY	192.168.2.15 192.168.2.24 192.168.3.24 192.168.4.125	0.0.0.0	TCP	443
DENY	192.168.2.15 192.168.2.24 192.168.3.24 192.168.4.125	0.0.0.0	ANY	ANY

Reset Answer Save Close

Database Server 192.168.4.125

VLAN 105

Internet CNAME = ctm.app.com = cerberus.app.com
A = cerberus.app.com = 64.23.71.93

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

VLAN Tags
VLAN 100
VLAN 101
VLAN 102
VLAN 103
VLAN 104
VLAN 105
VLAN 106

Firewall 3

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

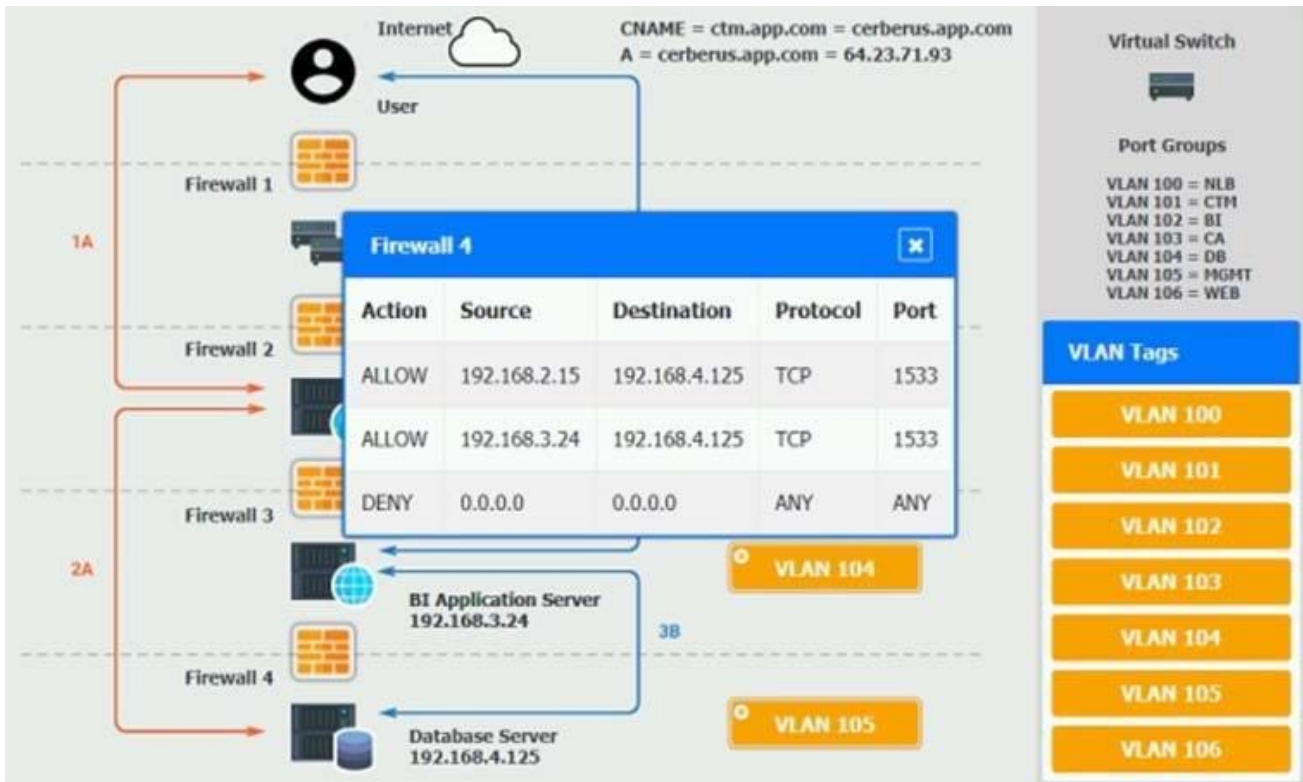
Reset Answer Save Close

Application Server 192.168.3.24

Database Server 192.168.4.125

Firewall 4

VLAN 105



Answer:

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

3.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:

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

4.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:

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

5.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