CompTIA

CV0-002 Exam

CompTIA Cloud+

Version: 13.0

Question: 1

A new browser version has been deployed to all users at a company. After the deployment, users report that they can no longer access the company's secure time-card system, which is hosted by a SaaS provider. A technician investigates and discovers a security error is received upon opening the site. If the browser is rolled back to the older version, the site is accessible again. Which of the following is the MOST likely cause of the security error users are seeing?

A. SSL certificate expiration on the SaaS load balancers
B. Federation issues between the SaaS provider and the company
C. Obsolete security technologies implemented on the SaaS servers
D. Unencrypted communications between the users and the application

Answer: C

Question: 2

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.

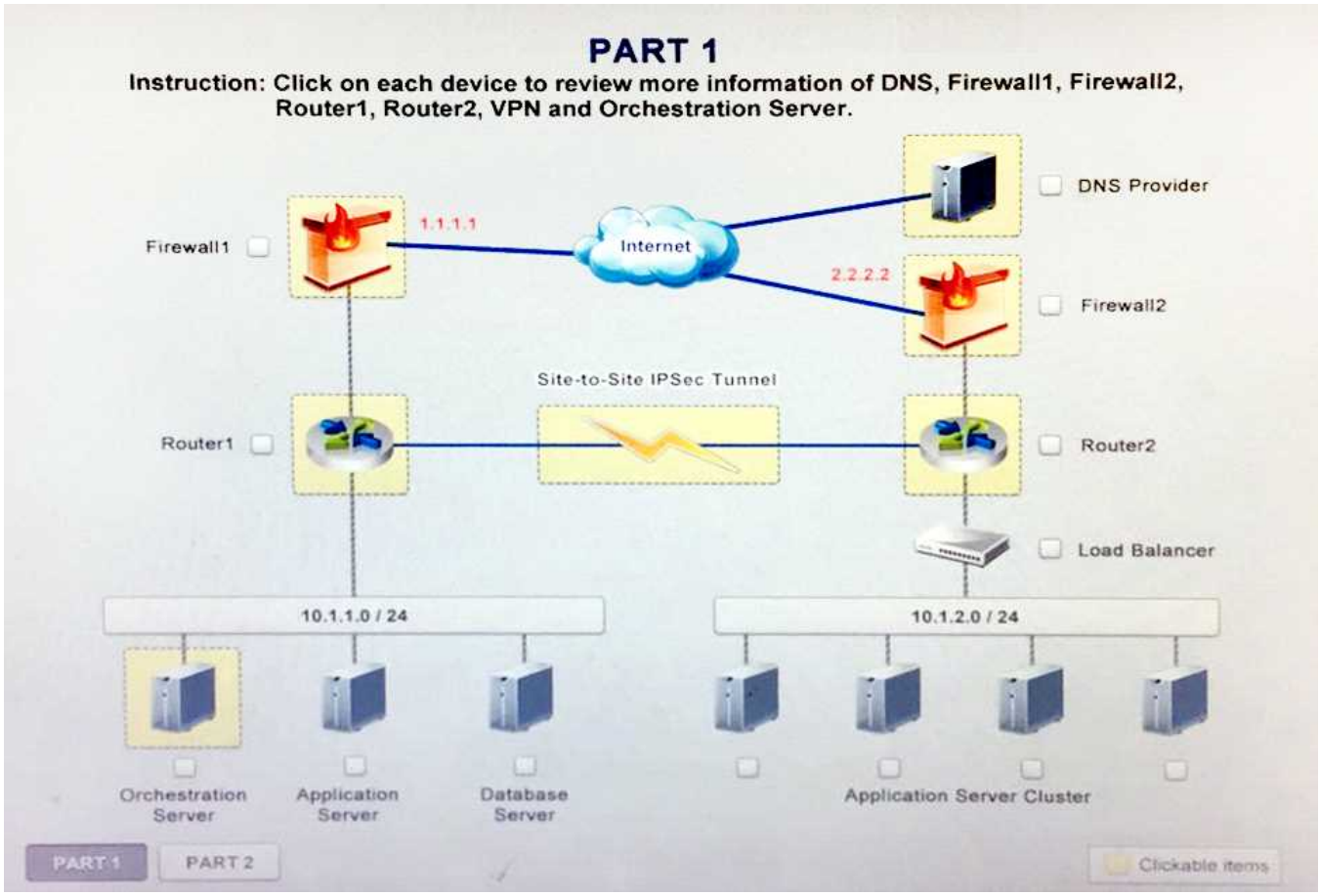
Review the network architecture and supporting documents and fulfill these requirements:

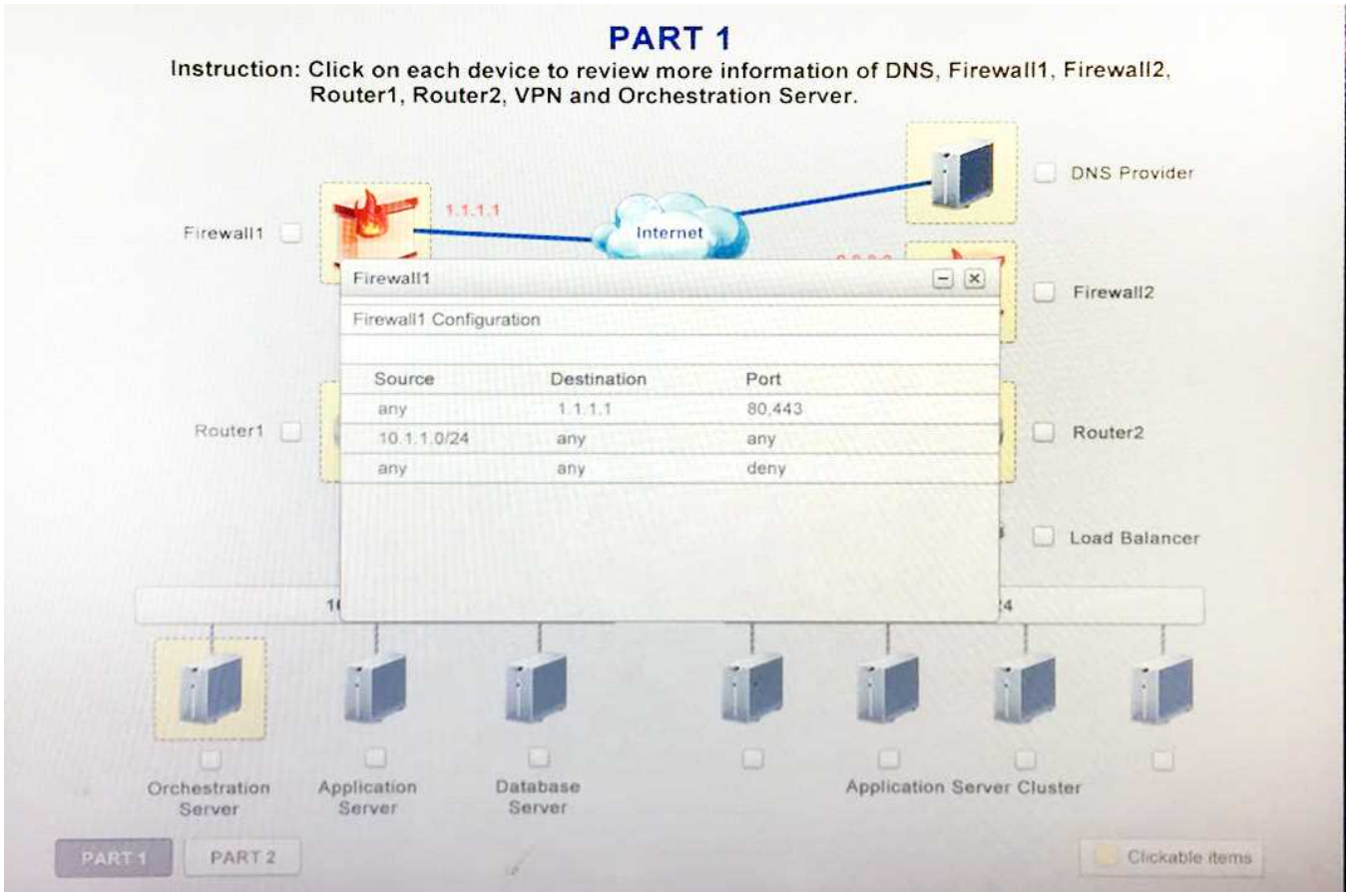
Part1:
1. Analyze the configuration of the following components: DNS, Firewall1, Firewall2, Router1, Rouler2, VPN and Orchestrator Server.
2. Identify the problematic device(s).

Instructions:

If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.

Simulation


PART 1
Instruction: Click on each device to review more information of DNS, Firewall1, Firewall2, Router1, Router2, VPN and Orchestration Server.
DNS Provider
Firewall1
1.1.1.1
Internet
2.2.2.2
Firewall2
Site-to-Site IPSec Tunnel
Router1
Router2
Load Balancer
10.1.1.0 / 24
10.1.2.0 / 24
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Clickable items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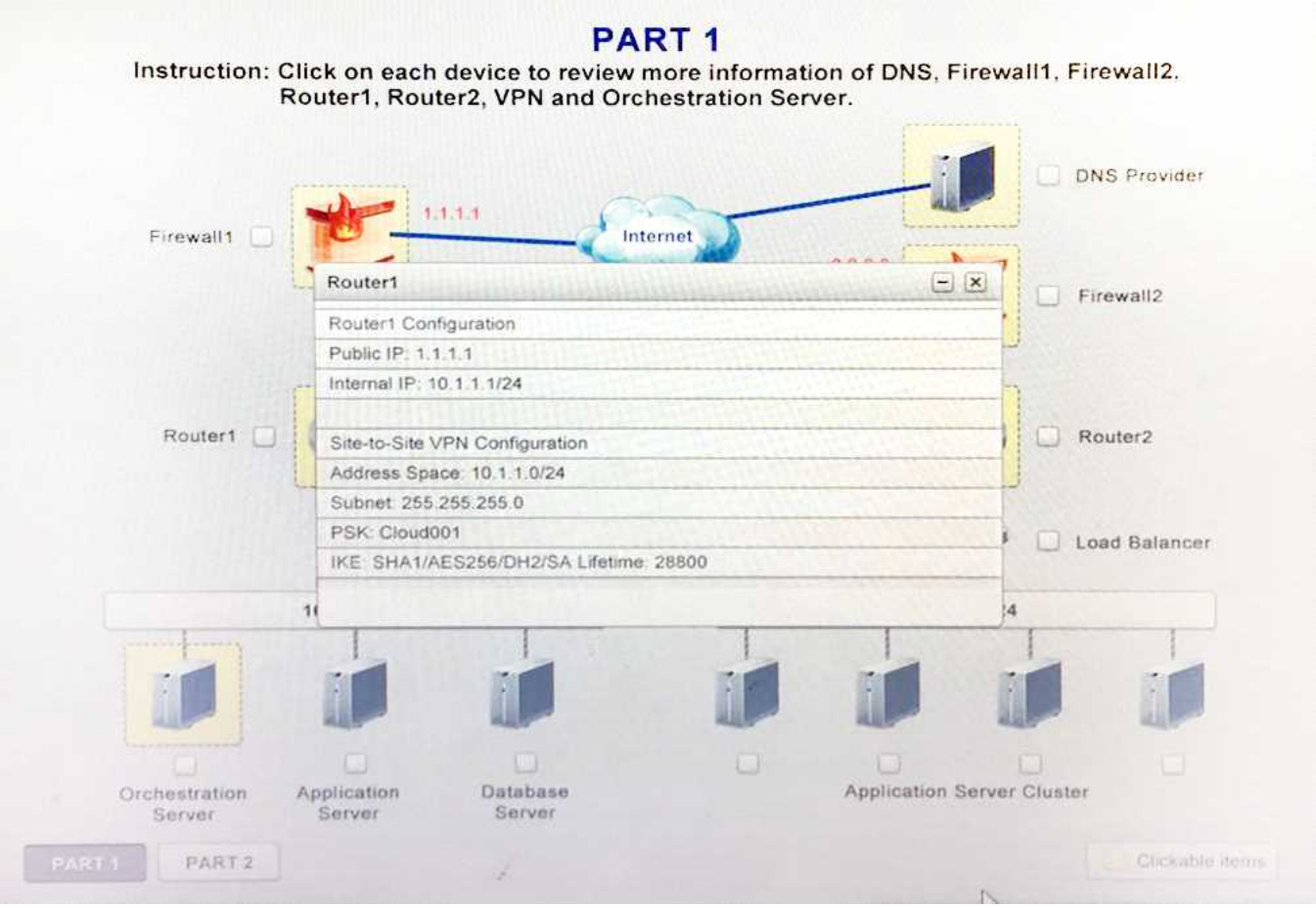
DNS Provider
Firewall1
1.1.1.1
Internet
Firewall2
Router1
Router2
Load Balancer
Firewall1
Firewall1 Configuration
Source Destination Port
any 1.1.1.1 80,443
10.1.1.0/24 any any
any any deny
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Clickable items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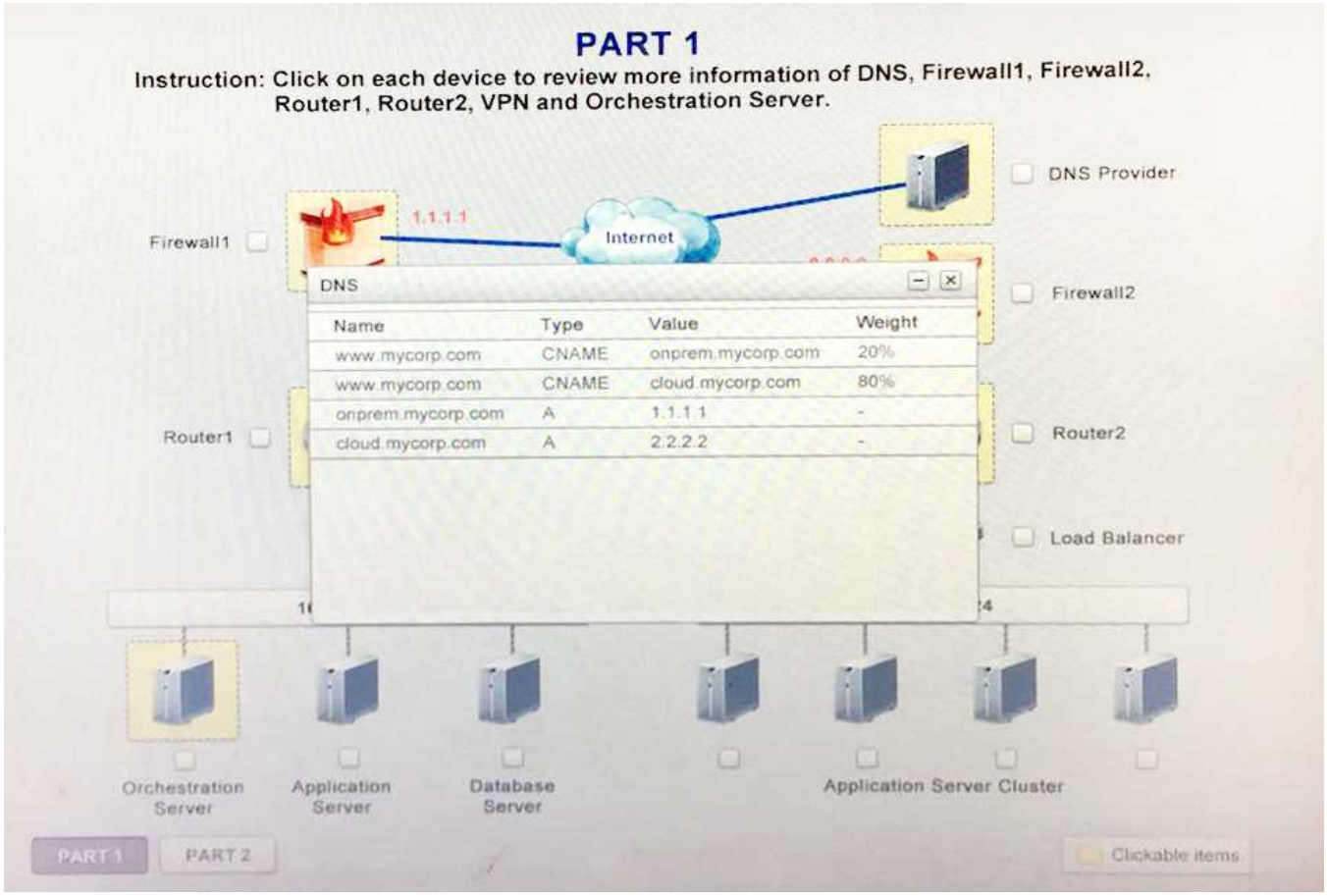
DNS Provider
Firewall1
1.1.1.1
Internet
Router1
Router1 Configuration
Public IP: 1.1.1.1
Internal IP: 10.1.1.1/24
Site-to-Site VPN Configuration
Address Space: 10.1.1.0/24
Subnet: 255.255.255.0
PSK: Cloud001
IKE: SHA1/AES256/DH2/SA Lifetime: 28800
Firewall2
Router1
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Clickable items


PART 1
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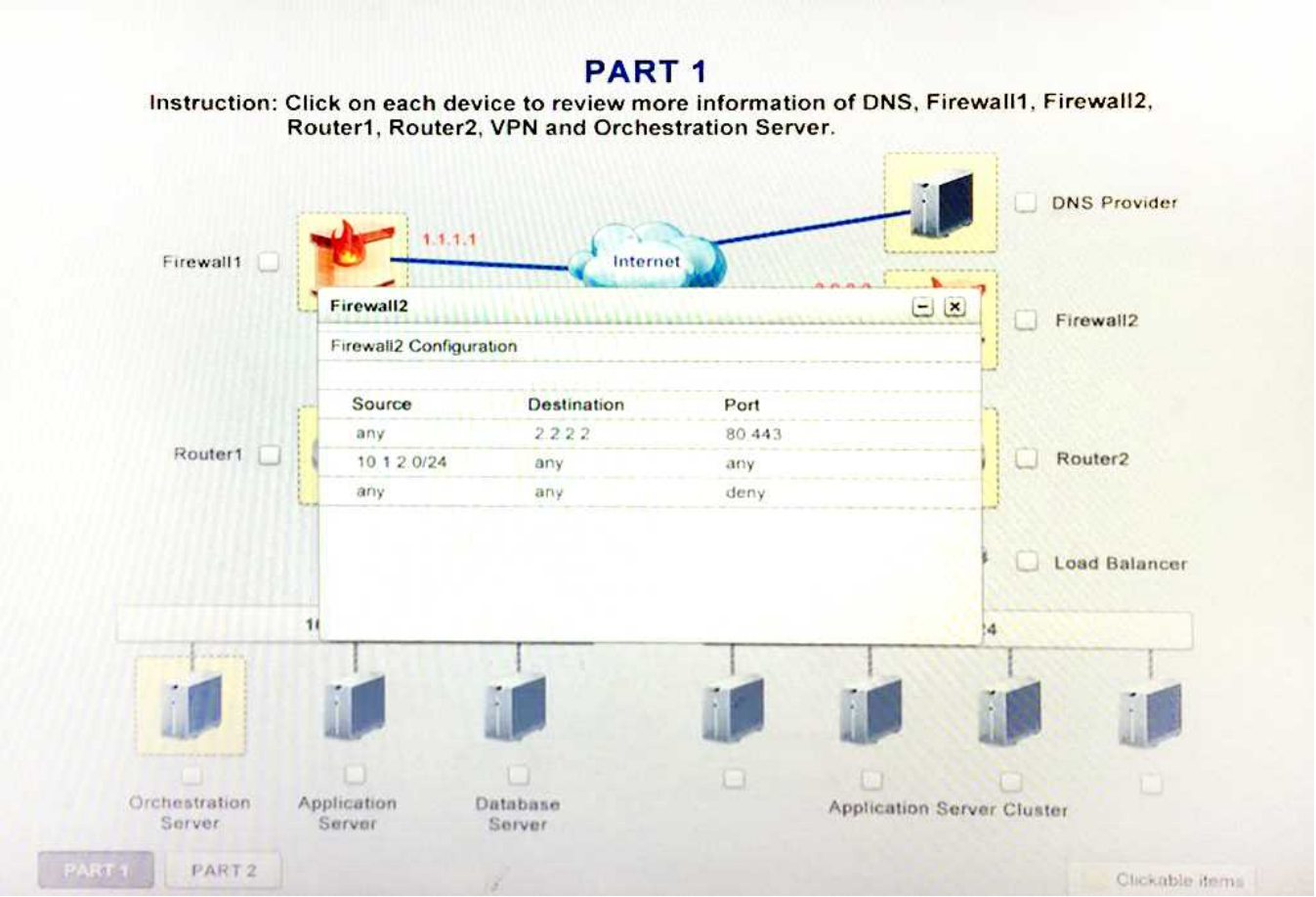
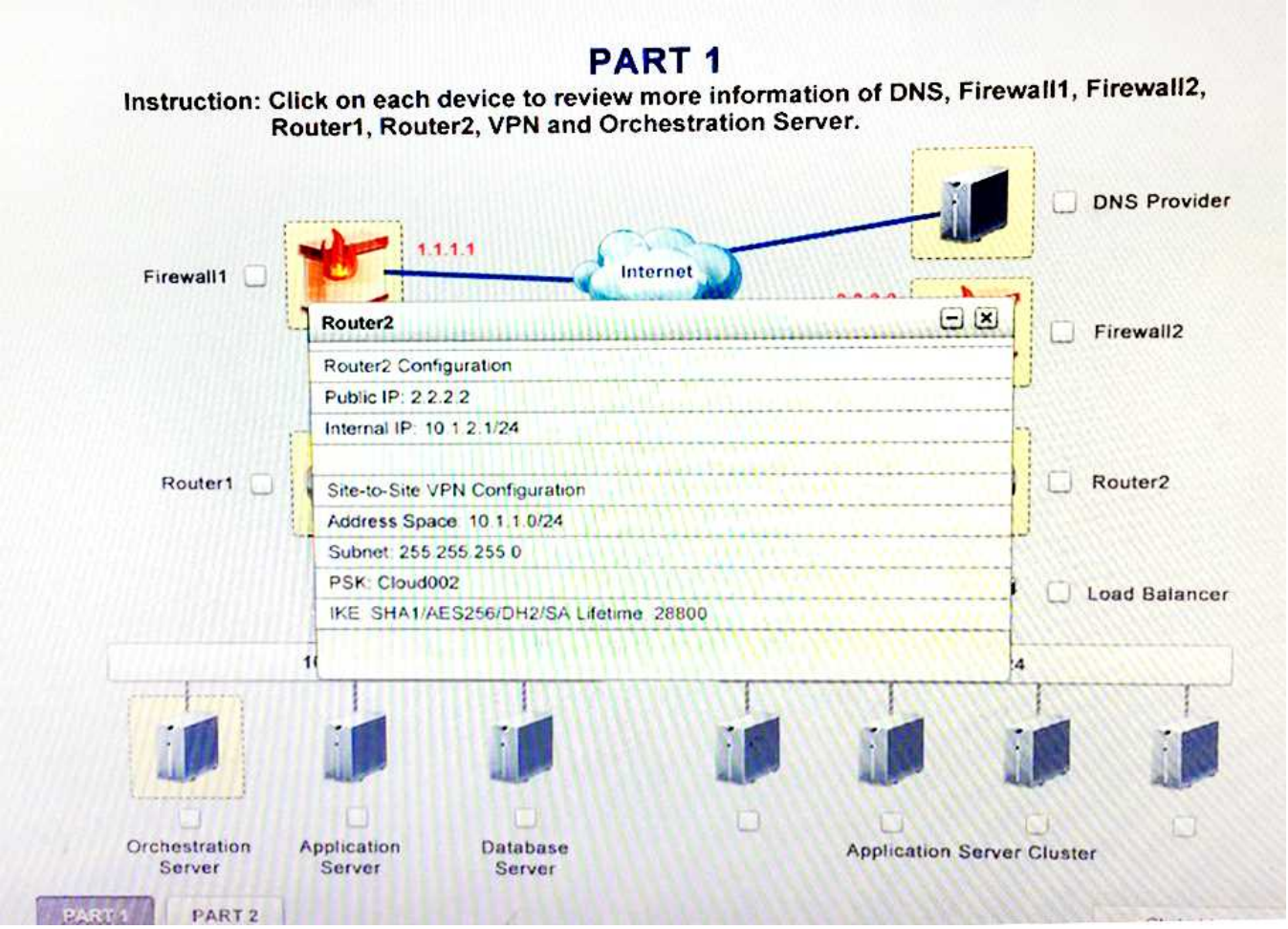
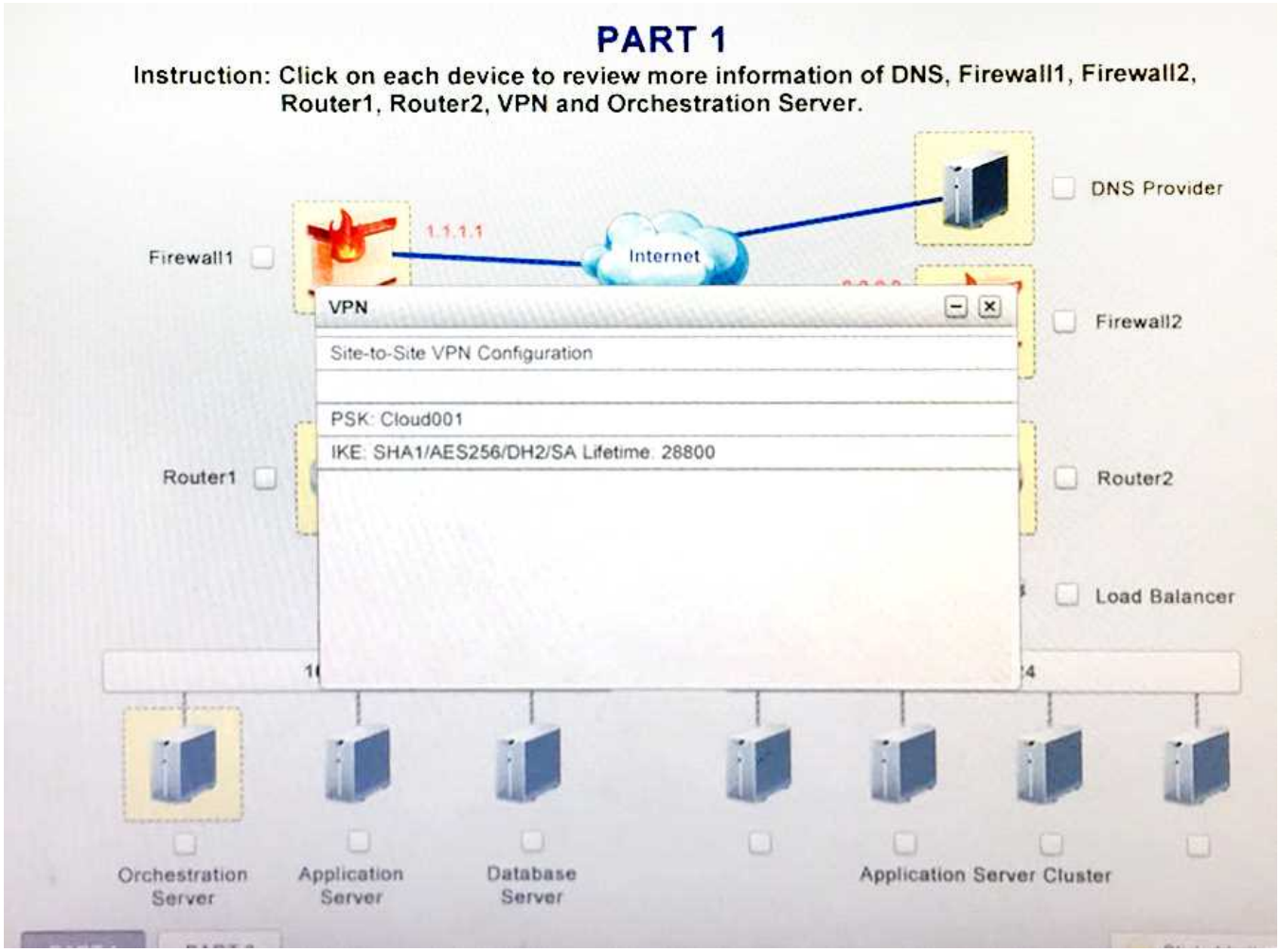
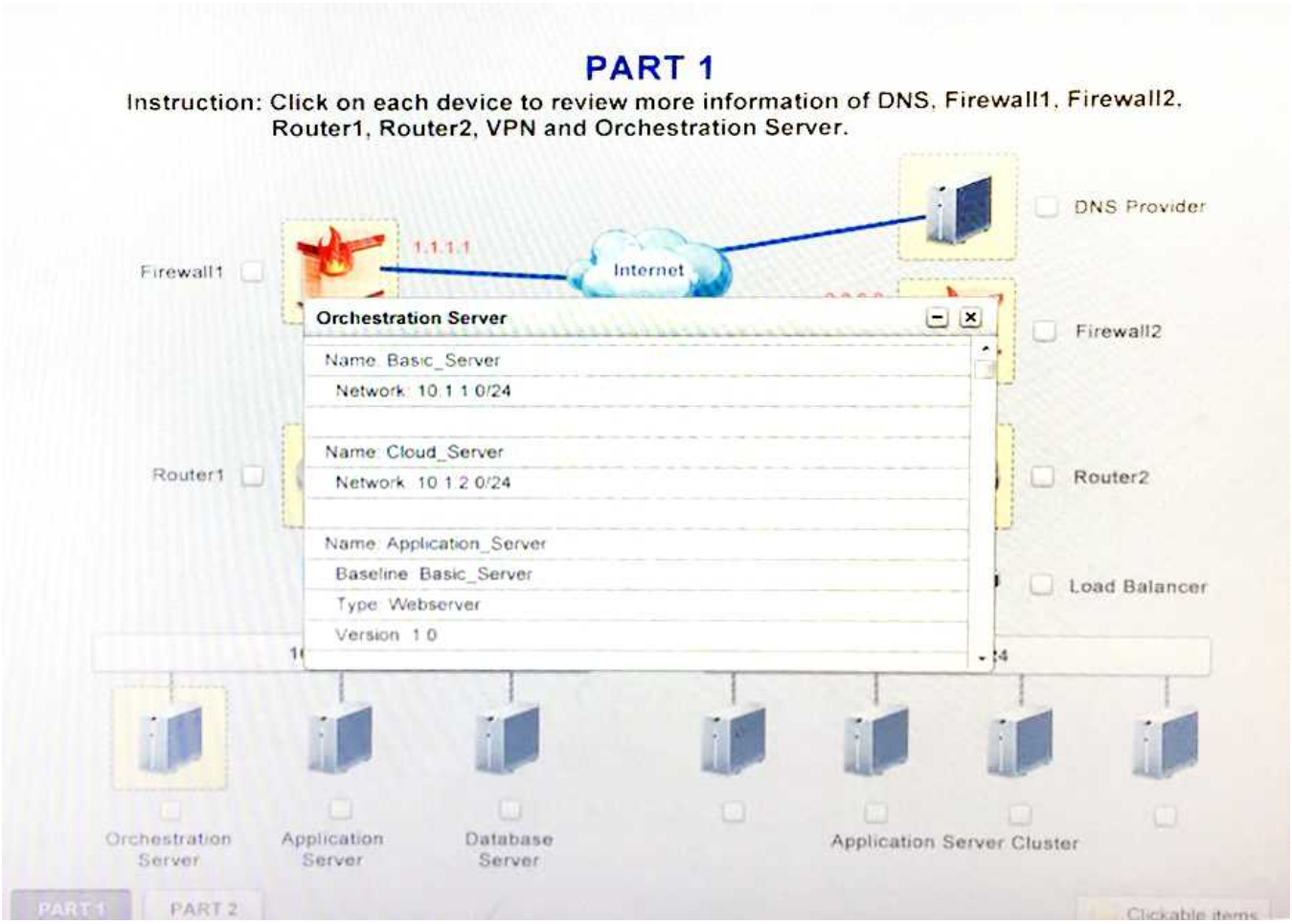
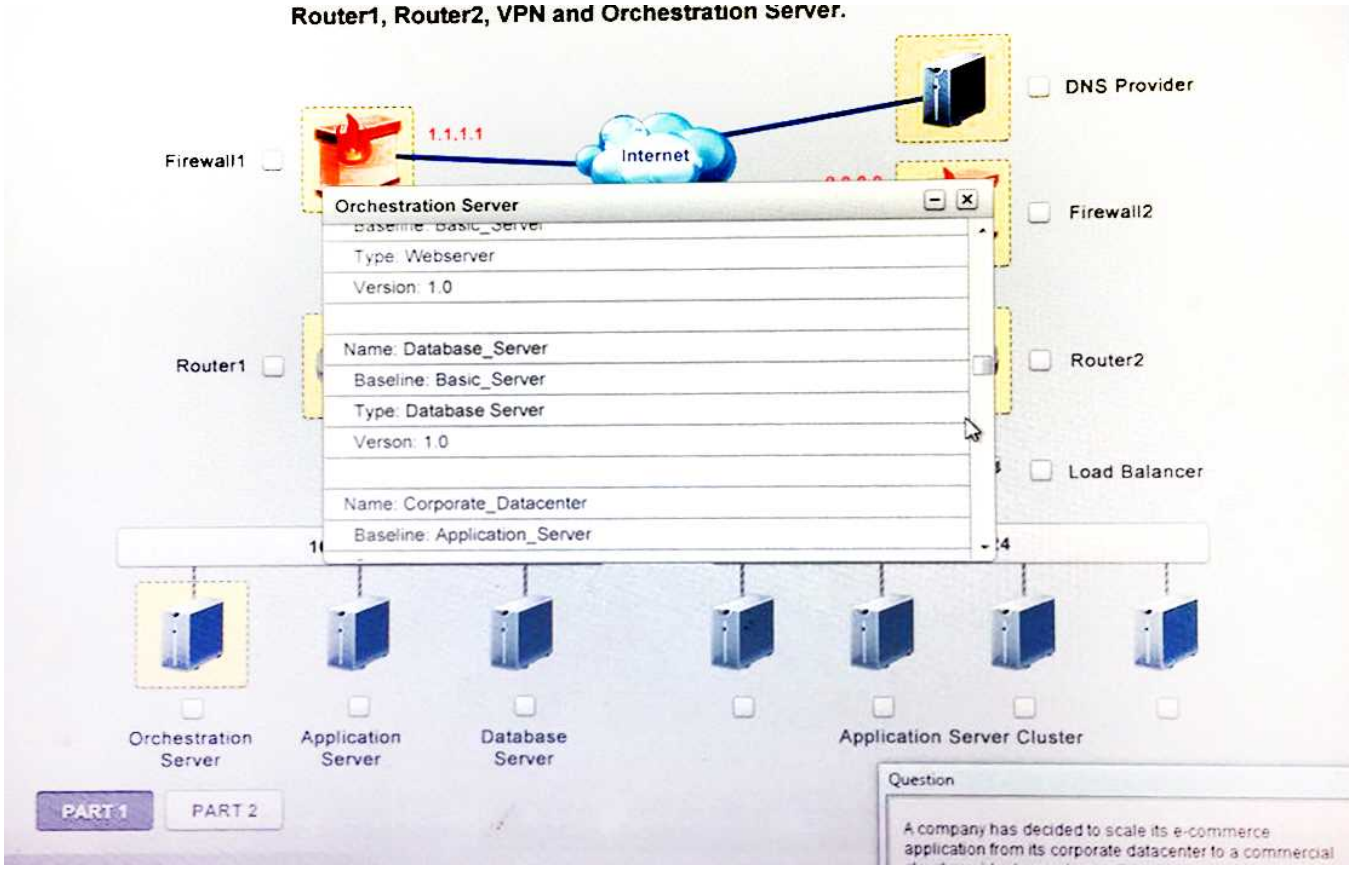
DNS Provider
Firewall1
1.1.1.1
Internet
DNS
Name Type Value Weight
www.mycorp.com CNAME onprem.mycorp.com 20%
www.mycorp.com CNAME cloud.mycorp.com 80%
onprem.mycorp.com A 1.1.1.1 -
cloud.mycorp.com A 2.2.2.2 -
Firewall2
Router1
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Clickable items

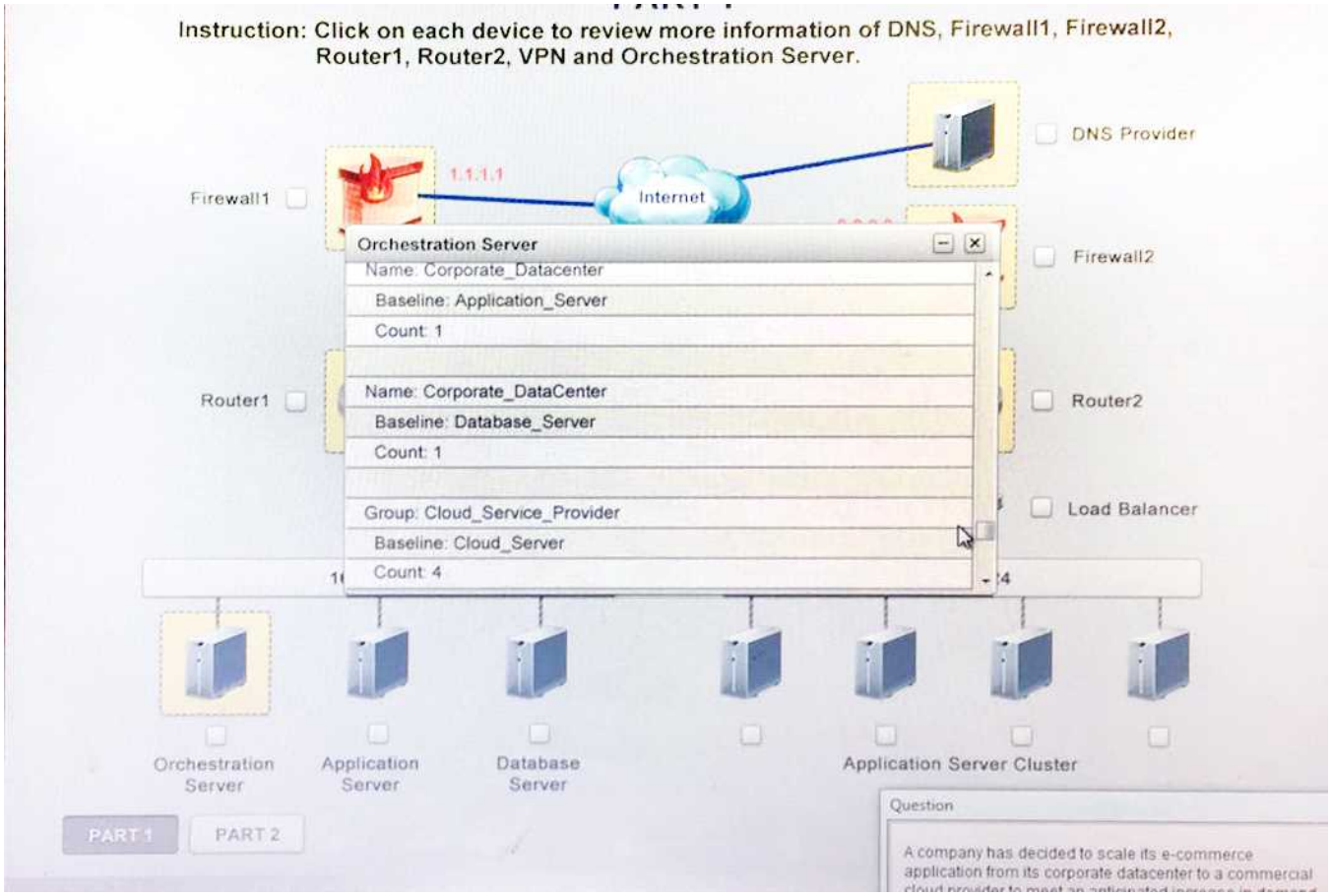

PART 1
Instruction: Click on each device to review more information of DNS, Firewall1, Firewall2, Router1, Router2, VPN and Orchestration Server.
DNS Provider
Firewall1
1.1.1.1
Internet
Firewall2
Firewall2 Configuration
Source
Destination
Port
any
2.2.2.2
80,443
10.1.2.0/24
any
any
any
any
deny
Router1
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Clickable items


PART 1
Instruction: Click on each device to review more information of DNS, Firewall1, Firewall2, Router1, Router2, VPN and Orchestration Server.
DNS Provider
Firewall1
1.1.1.1
Internet
Router2
Router2 Configuration
Public IP: 2.2.2.2
Internal IP: 10.1.2.1/24
Firewall2
Router1
Site-to-Site VPN Configuration
Address Space: 10.1.1.0/24
Subnet: 255.255.255.0
PSK: Cloud002
IKE: SHA1/AES256/DH2/SA Lifetime: 28800
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2


PART 1
Instruction: Click on each device to review more information of DNS, Firewall1, Firewall2, Router1, Router2, VPN and Orchestration Server.
DNS Provider
Firewall1
1.1.1.1
Internet
VPN
Site-to-Site VPN Configuration
PSK: Cloud001
IKE: SHA1/AES256/DH2/SA Lifetime: 28800
Firewall2
Router1
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster

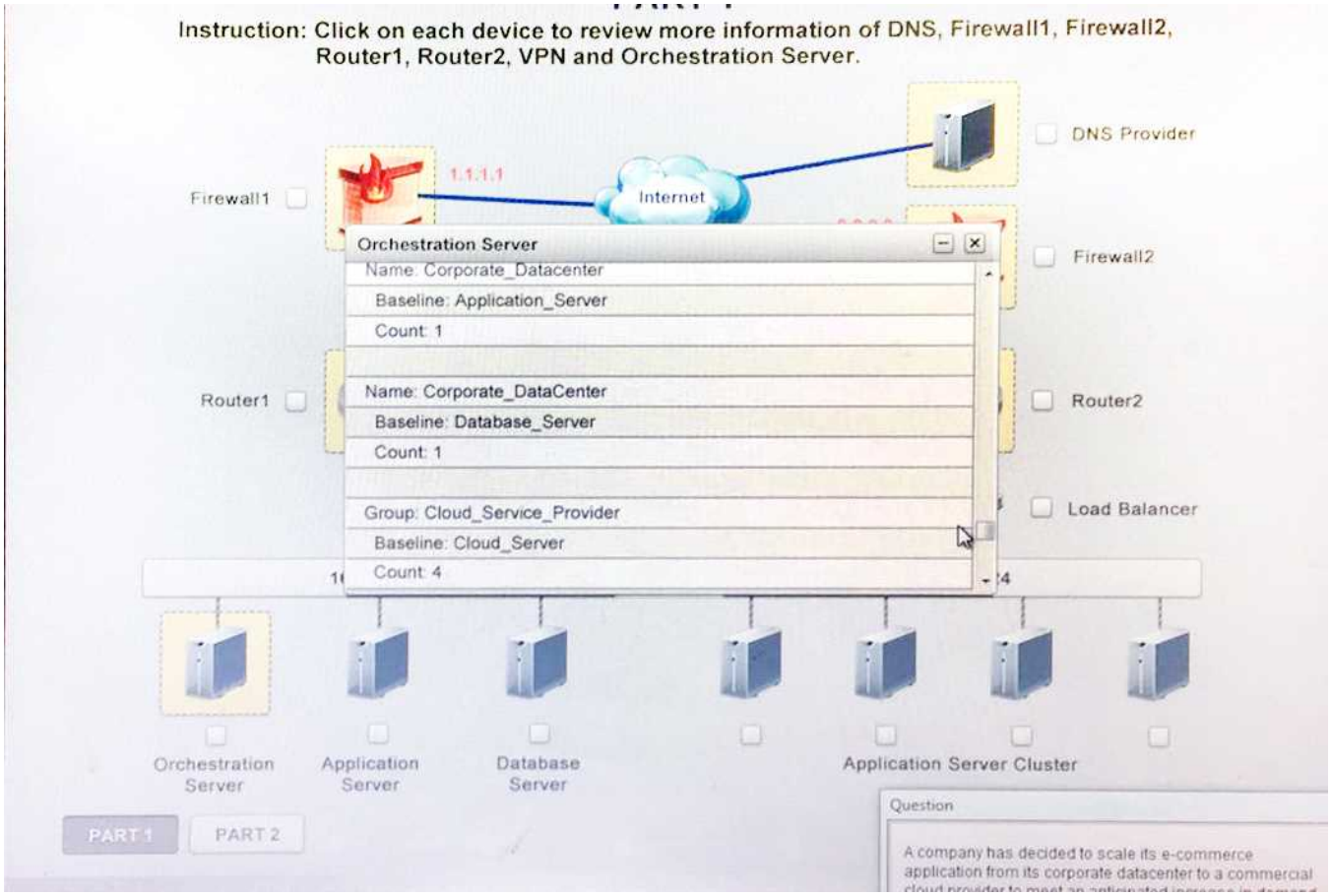

PART 1
Instruction: Click on each device to review more information of DNS, Firewall1, Firewall2, Router1, Router2, VPN and Orchestration Server.
DNS Provider
Firewall1
1.1.1.1
Internet
Orchestration Server
Name: Basic_Server
Network: 10.1.1.0/24
Name: Cloud_Server
Network: 10.1.2.0/24
Name: Application_Server
Baseline: Basic_Server
Type: Webserver
Version: 1.0
Firewall2
Router1
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Clickable items


Router1, Router2, VPN and Orchestration Server.
DNS Provider
Firewall1
1.1.1.1
Internet
Orchestration Server
Type: Webserver
Version: 1.0
Name: Database_Server
Baseline: Basic_Server
Type: Database Server
Verson: 1.0
Name: Corporate_Datacenter
Baseline: Application_Server
Firewall2
Router1
Router2
Load Balancer
Orchestration Server
Application Server
Database Server
Application Server Cluster
PART 1
PART 2
Question
A company has decided to scale its e-commerce application from its corporate datacenter to a commercial



Answer: See the solution below.

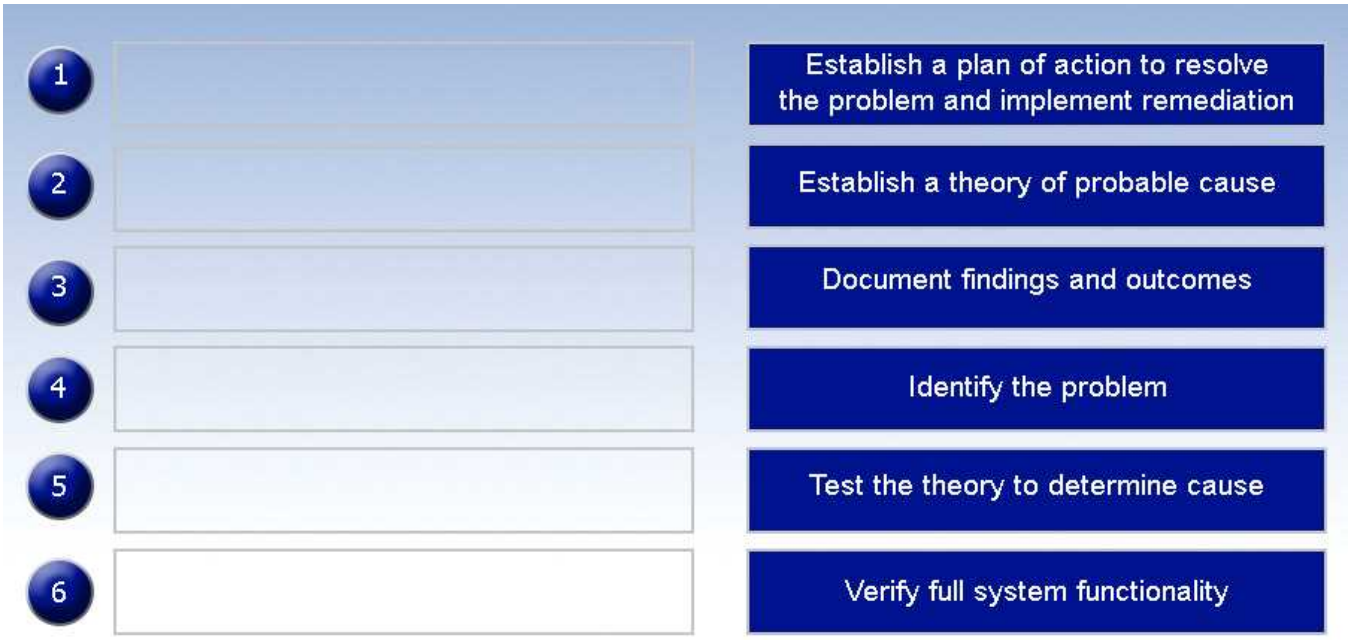
Solution given below with details.



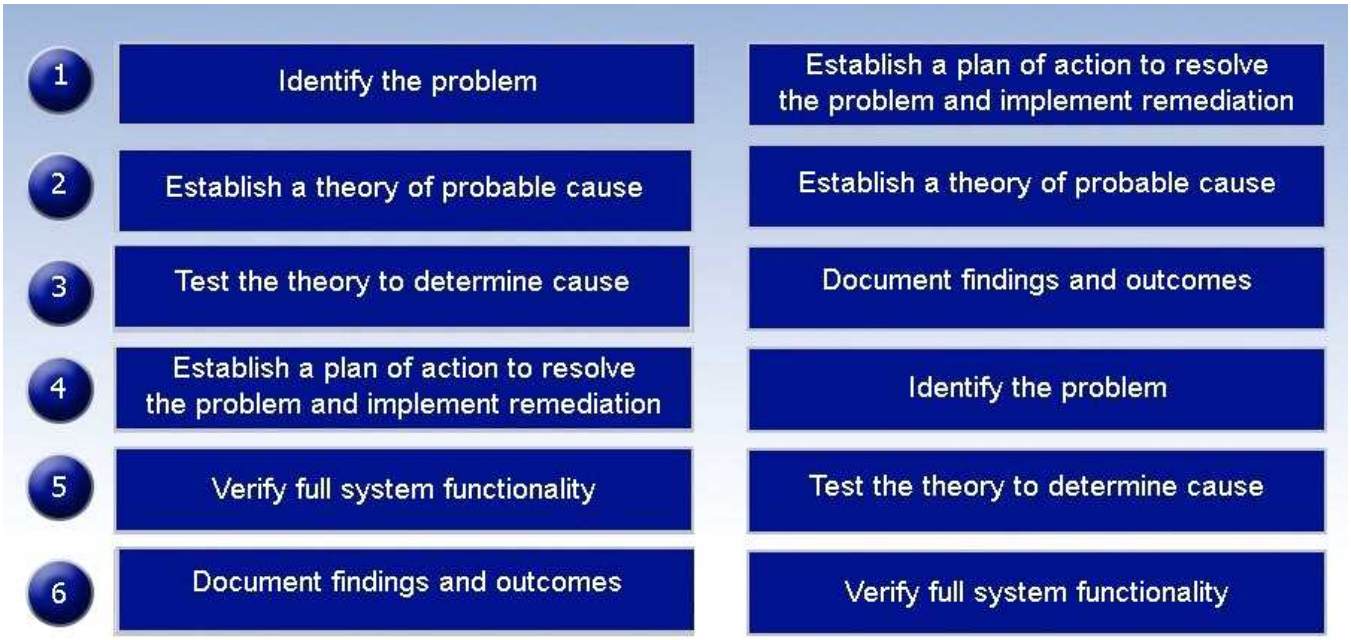
Question: 3

DRAG DROP

A hosted file share was infected with CryptoLocker and now root cause analysis needs to be performed. Place the tasks in the correct order according to the troubleshooting methodology.



Answer:



Question: 4

A company is seeking a new backup solution for its virtualized file servers that fits the following characteristics:

The files stored on the servers are extremely large.

Existing files receive multiple small changes per day.
New files are only created once per month.
All backups are being sent to a cloud repository.

Which of the following would BEST minimize backup size?

A. Local snapshots
B. Differential backups
C. File-based replication
D. Change block tracking

Answer: B

Reference: https://www.acronis.com/en-us/blog/posts/tips-tricks-better-business-backup-and-recovery-world- backup-day

Question: 5

A company has deployed a four-node cluster in a COLO environment with server configurations listed below. The company wants to ensure there is 50% overhead for failover and redundancy. There are currently eight VMs running within the cluster with four vCPUs x32GB each. The company wants to better utilize its resources within the cluster without compromising failover and redundancy.

White Label Servers	Configuration (CPU x Memory GB)
Server 1	16x128
Server 2	16x128
Server 3	16x128
Server 4	16x128

Given the information above, which of the following should a cloud administrator do to BEST accommodate failover and redundancy requirements?

A. Ensure hyperthreading is being utilized with physical server CPUs.
B. Ensure dynamic resource allocation is being utilized.
C. Overcommit memory, and the systems will allocate resources as required.
D. Set hard limits for VM resources and turn on hyperthreading.

Answer: B

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