QUESTION & ANSWERS

Exam A

QUESTION 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

Diagram 1 (top)

Firewall 1 — 1.1.1.1 — Internet — DNS Provider

2.2.2.2 — Firewall 2

Router 1 — Site-to-Site IPSEC Tunnel — Router 2 ✔

Load Balancer

10.1.1.0/24

Orchestration Server   Application Server   Database Server

10.1.2.0/24

Application Server Cluster

Diagram 2 (bottom)

Firewall 1 — 1.1.1.1 — Internet — DNS Provider

2.2.2.2 — 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	ANY	ANY
ANY	ANY	DENY

10.1.1.0/24

Orchestration Server   Application Server   Database Server

10.1.2.0/24

Application Server Cluster

Firewall 1

DNS Provider

1.1.1.1

Internet

2.2.2.2

Firewall 2

Router 1 ✕

Router Configuration

Public IP	1.1.1.1
Internal IP	10.1.1.1/24

Router 1

☑ Router 2

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

Load Balancer

10.1.1.

Orchestration Server   Application Server   Database Server

Application Server Cluster