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920-463

Ethernet Switching Design Expert

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QUESTION NO: 1

A network design calls for 700 100 Mbps Ethernet ports in a wiring closet with minimal Layer 3
features. The wiring closet has multiple fiber connections back to the core device in a data center.
Which type of switches should be used for this situation?

A. It is not possible to configure a wiring closet with this number of ports.
B. Two stacks of eight Ethernet Switch 470-48Ts.
C. Two fully populated Ethernet Routing Switch 8600s chassis configured for VRRP load
balancing.
D. Two stacks of eight Ethernet Routing Switch 5510-48Ts.

Answer: D

QUESTION NO: 2

During the requirement analysis phase, you determine that you need a hardware based Layer 3
switch that supports connectivity to 32 desktop ports and can also be deployed at the network
core, for the lowest price. Which switching solution will provide these features?

A. Ethernet Routing Switch 8300
B. Ethernet Routing Switch 1612G
C. Ethernet Routing Switch 1648T
D. Ethernet Routing Switch 8600

Answer: C

QUESTION NO: 3

While in the process of determining your basic network layout hardware, you discover the
customer will have several access devices that require Power over Ethernet (PoE). Which
switching solution would you incorporate to satisfy this requirement?

A. Deploy the Ethernet Routing Switch 5520 at the edge.
B. Deploy the Ethernet Switch 425 at the edge.
C. Deploy the Ethernet Switch 450 at the edge.
D. Deploy the Ethernet Routing Switch 5510 at the edge.

Answer: A

QUESTION NO: 4

You are designing a network for a medium-sized business. For wiring closet access, you need the highest density Layer 2 switch that will support redundant power. Which switching solution for the network edge should be used?

A. Ethernet Switch 325
B. Ethernet Switch 470
C. Ethernet Switch 450
D. Ethernet Switch 420

Answer: B

QUESTION NO: 5

A company of 100 employees has recently been purchased by a large corporation located 60 kilometers away. The corporation owns a pre-existing fiber network that is connected to other multiple campuses. To collaborate on projects, a LAN must be created between the recently acquired company and the other campuses. Which Ethernet switching solution should you recommend to the newly acquired company and how would you connect both sites together?

A. Configure an Ethernet Switch 450 and connect using one 1000 Base-XD Gigabit Interface Converter (GBIC).
B. Configure an Ethernet Switch 460 and connect using one 1000 Base-XD Gigabit Interface Converter (GBIC).
C. Configure an Ethernet Switch 470 and connect using a 1000 Base-ZX Gigabit Interface Converter (GBICs).
D. Configure an Ethernet Switch 420 and connect using a 1000 Base-LX Gigabit Interface Converter (GBICs).

Answer: C

QUESTION NO: 6

A client has a large number of Ethernet Switch 470-48Ts connected to their network core (two Ethernet Routing Switch 8600s) using redundant links and Spanning Tree Protocol (STP). The network administrator wants to improve the network design to ensure high availability and improve throughput. This can be achieved with a design that minimizes routing re-convergence time while ensuring reliable load-sharing Multi-Link Trunking (MLT) connections to the core. Which Split Multi-Link Trunking (SMLT) configuration should be selected?

A. An SMLT to the core Ethernet Routing Switch 8600s running Interior Gateway Routing Protocol (IGRP).

B. An SMLT to the core Ethernet Routing Switch 8600s running Routing Information Protocol Version 1 (RIP1).

C. An SMLT to the core Ethernet Routing Switch 8600s running Routing Information Protocol Version 2 (RIP2).

D. A Routed SMLT to the core Ethernet Routing Switch 8600s running Open Shortest Path First (OSPF).

Answer: D

QUESTION NO: 7

A customer has purchased a Nortel Business Communication Manager (BCM) 200 and wants to use Nortel IP Phone 2002 IP telephones instead of traditional digital sets. Existing telephone wiring is minimal with very few AC power outlets in the office area.

Which Ethernet Switch should be recommended to this customer, assuming the network will contain 18 IP telephones, 18 workstations, a file server, and a network printer?

A. Ethernet Switch 460-24T-PWR
B. Ethernet Switch 470-48T
C. Ethernet Switch 470-24T
D. Ethernet Routing Switch 8300 with Power over Ethernet (PoE) enabled.

Answer: A

QUESTION NO: 8

You are revamping a network for a small-medium business. All users and servers are in the same location. Keeping cost and performance factors in mind, how would you make the network more hierarchical in nature?

A. Deploy an Ethernet Routing Switch 8600 at the core with an Ethernet Routing Switch 5510 at the edge.

B. Deploy an Ethernet Routing Switch 8600 at the core with an Ethernet Routing Switch 1424T at the edge.

C. Deploy an Ethernet Routing Switch 1600 at the core, with an Ethernet Switch 425 at the edge.

D. Deploy an Ethernet Routing Switch 1600 at the core with an Ethernet Switch 460 at the edge.

Answer: C