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Implementing Cisco IOS Network Security (IINS v2.0)

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QUESTION 1

Which Cisco management tool provides the ability to centrally provision all aspects of device configuration across the Cisco family of security products?

A. Cisco Configuration Professional

B. Security Device Manager

C. Cisco Security Manager

D. Cisco Secure Management Server

Correct Answer: C

Cisco Security Manager 4.4 Data Sheet Cisco Security Manager is a comprehensive management solution that enables advanced management and rapid troubleshooting of multiple security devices. Cisco Security Manager provides scalable, centralized management from which administrators can efficiently manage a wide range of Cisco security devices, gain visibility across the network deployment, and securely share information with other essential network services such as compliance systems and advanced security analysis systems. Designed to maximize operational efficiency, Cisco Security Manager also includes a powerful suite of automated capabilities, such as health and performance monitoring, software image management, auto-conflict detection, and integration with ticketing systems. Reference: http://www.cisco.com/en/US/prod/collateral/vpndevc/ps5739/ps6498/data_sheet_c78-27090.html

QUESTION 2

Refer to the exhibit.
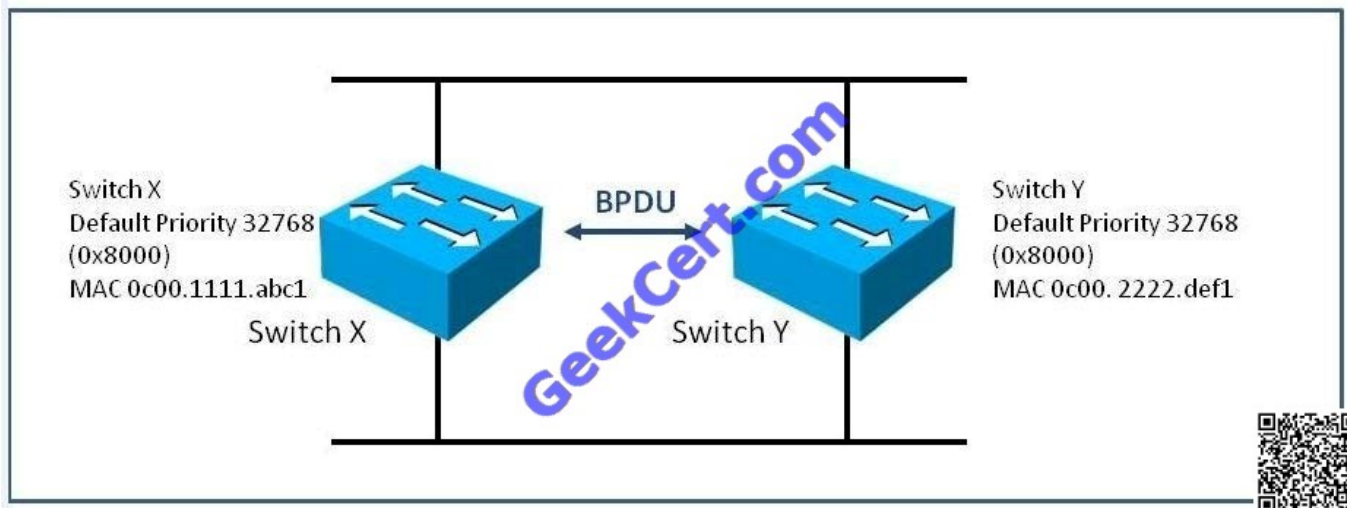
Which switch is designated as the root bridge in this topology?

A. It depends on which switch came on line first.

B. Neither switch would assume the role of root bridge because they have the same default priority.

C. switch X

D. switch Y

Correct Answer: C

http://www.cisco.com/en/US/tech/tk389/tk621/technologies_configuration_example09186a008009467c.shtml

Rules of Operation

This section lists rules for how STP works. When the switches first come up, they start the root switch selection process. Each switch transmits a BPDU to the directly connected switch on a per-VLAN basis.

As the BPDU goes out through the network, each switch compares the BPDU that the switch sends to the BPDU that the switch receives from the neighbors. The switches then agree on which switch is the root switch. The switch with the

lowest bridge ID in the network wins this election process.

QUESTION 3

Which statement describes how the sender of the message is verified when asymmetric encryption is used?

A. The sender encrypts the message using the sender\\'s public key, and the receiver decrypts the message using the sender\\'s private key.

B. The sender encrypts the message using the sender\\'s private key, and the receiver decrypts the message using the sender\\'s public key.

C. The sender encrypts the message using the receiver\\'s public key, and the receiver decrypts the message using the receiver\\'s private key.

D. The sender encrypts the message using the receiver\\'s private key, and the receiver decrypts the message using the receiver\\'s public key.

E. The sender encrypts the message using the receiver\\'s public key, and the receiver decrypts the message using the sender\\'s public key.

Correct Answer: C

http://www.cisco.com/en/US/tech/tk1132/technologies_white_paper09186a00800e79cb.shtml

Public-Key Cryptography and Asymmetric Encryption

In asymmetric encryption, two different keys are used to render data illegible to anyone who may be eavesdropping on a conversation. The certificates contain the two components of asymmetric encryption: public key and private key.

Data that is encrypted with the public key can be decrypted with the private key, and vice versa. However, data encrypted with the public key cannot be decrypted with the public key. The parties who need to encrypt their communications will

exchange their public keys (contained in the certificate), but will not disclose their private keys. The sending party will use the public key of the receiving party to encrypt message data and forward the cipher text (encrypted data) to the other

party. The receiving party will then decrypt the cipher text with their private key.

Data encrypted with the public key cannot be decrypted with the public key. This prevents someone from compromising

the cipher text after acquiring both public keys by eavesdropping on the certificate exchange.

QUESTION 4

What is the Cisco preferred countermeasure to mitigate CAM overflows?

A. port security

B. dynamic port security

C. IP source guard

D. root guard

Correct Answer: B

QUESTION 5

Which IOS feature can limit SSH access to a specific subnet under a VTY line?

A. access class

B. access list

C. route map

D. route tag

Correct Answer: A

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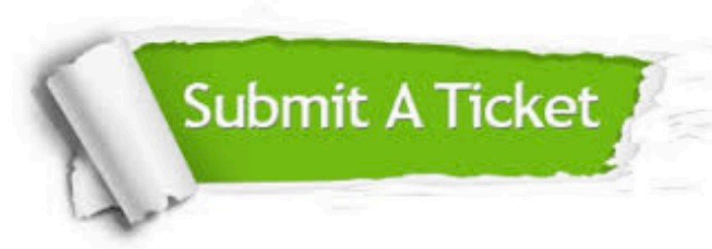
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