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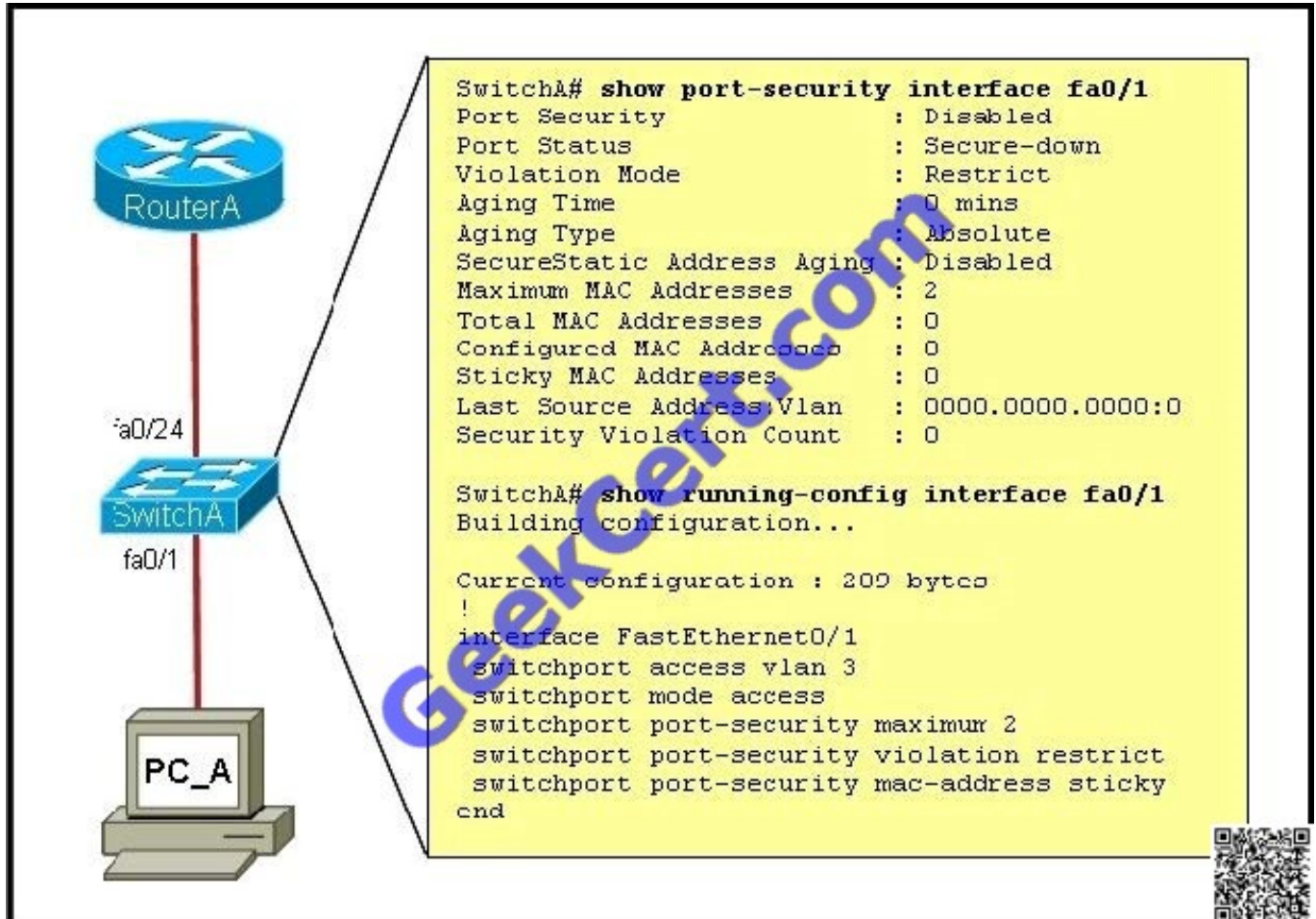Following Questions and Answers are all new published by Cisco Official Exam Center

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QUESTION 1

Refer to the exhibit.

```
SwitchA# show port-security interface fa0/1
Port Security            : Disabled
Port Status              : Secure-down
Violation Mode           : Restrict
Aging Time               : 0 mins
Aging Type               : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses    : 2
Total MAC Addresses      : 0
Configured MAC Addresses : 0
Sticky MAC Addresses     : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

SwitchA# show running-config interface fa0/1
Building configuration...

Current configuration : 209 bytes
!
interface FastEthernet0/1
 switchport access vlan 3
 switchport mode access
 switchport port-security maximum 2
 switchport port-security violation restrict
 switchport port-security mac-address sticky
end
```

RouterA
fa0/24
SwitchA
fa0/1
PC_A

A junior network administrator was given the task of configuring port security on SwitchA to allow only PC_A to access the switched network through port fa0/1. If any other device is detected, the port is to drop frames from this device. The administrator configured the interface and tested it with successful pings from PC_A to RouterA, and then observes the output from these two show commands.

Which two of these changes are necessary for SwitchA to meet the requirements? (Choose two.)

A. Port security needs to be globally enabled.

B. Port security needs to be enabled on the interface.

C. Port security needs to be configured to shut down the interface in the event of a violation.

D. Port security needs to be configured to allow only one learned MAC address.

E. Port security interface counters need to be cleared before using the show command.

F. The port security configuration needs to be saved to NVRAM before it can become active.

Correct Answer: BD

From the output we can see that port security is disabled so this needs to be enabled. Also, the maximum number of devices is set to 2 so this needs to be just one if we want the single host to have access and nothing else.

QUESTION 2

Which switch would STP choose to become the root bridge in the selection process?

A. 32768: 11-22-33-44-55-66

B. 32768: 22-33-44-55-66-77

C. 32769: 11-22-33-44-55-65

D. 32769: 22-33-44-55-66-78

Correct Answer: A

The root bridge of the spanning tree is the bridge with the smallest (lowest) bridge ID. Each bridge has a configurable priority number and a MAC Address; the bridge ID contains both numbers combined together - Bridge priority + MAC (32768.0200.0000.1111). The Bridge priority default is 32768 and can only be configured in multiples of 4096(Spanning tree uses the 12 bits extended system ID). To compare two bridge IDs, the priority is compared first, as if looking at a real number anything less than 32768...will become the target of being the root. If two bridges have equal priority then the MAC addresses are compared; for example, if switches A (MAC=0200.0000.1111) and B (MAC=0200.0000.2222) both have a priority of 32768 then switch A will be selected as the root bridge. In this case, 32768: 11-22-33-44-55-66 would be the bridge because it has a lower priority and MAC address.

QUESTION 3

Refer to the exhibit.
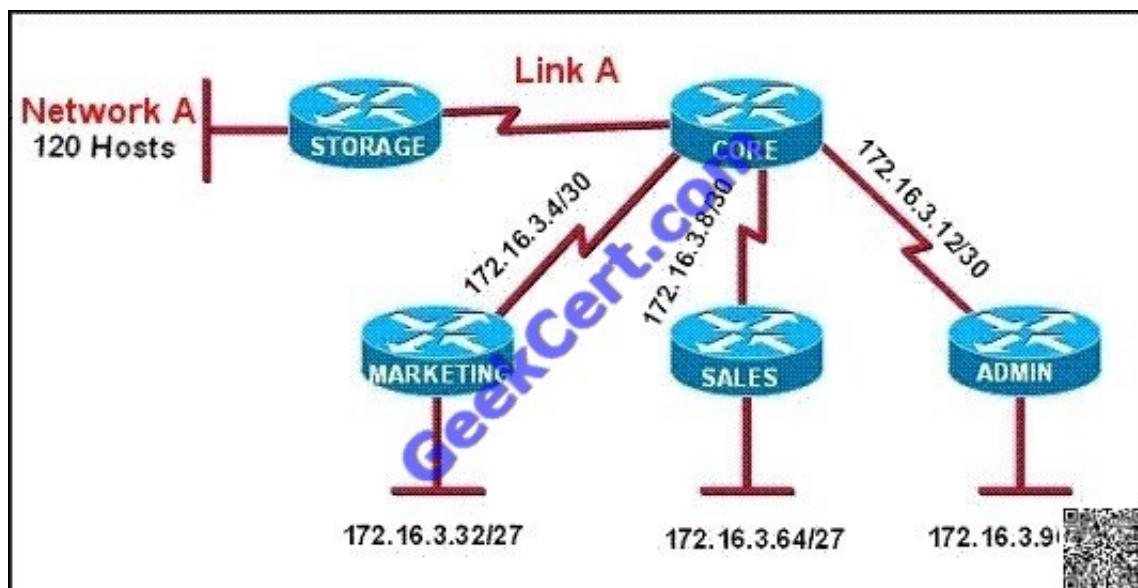
All of the routers in the network are configured with the ip subnet-zero command. Which network addresses should be used for Link A and Network A? (Choose two.)

A. Network A - 172.16.3.48/26

B. Network A - 172.16.3.128/25

C. Network A - 172.16.3.192/26

D. Link A - 172.16.3.0/30

E. Link A - 172.16.3.40/30

F. Link A - 172.16.3.112/30

Correct Answer: BD

Only a /30 is needed for the point to point link and sine the use of the ip subnet-zero was used, 172.16.3.0/30 is valid. Also, a /25 is required for 120 hosts and again 172.16.3.128/25 is the best, valid option.

QUESTION 4

Which Layer 2 protocol encapsulation type supports synchronous and asynchronous circuits and has built-in security mechanisms?

A. HDLC

B. PPP

C. X.25

D. Frame Relay

Correct Answer: B

PPP: Provides router-to-router and host-to-network connections over synchronous and asynchronous circuits. PPP was designed to work with several network layer protocols, including IP. PPP also has built-in security mechanisms, such as Password Authentication Protocol (PAP) and Challenge Handshake Authentication Protocol (CHAP).

QUESTION 5

Which command reveals the last method used to powercycle a router?

A. show reload

B. show boot

C. show running-config

D. show version

Correct Answer: D

The "show version" command can be used to show the last method to powercycle (reset) a router.

```
Router>show version
Cisco Internetwork Operating System Software
IOS (tm) 3600 Software (C3640-IK9S-M), Version 12.2(40a), RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2007 by cisco Systems, Inc.
Compiled Sat 10-Mar-07 21:57 by pwade
Image text-base: 0x60008930, data-base: 0x612A2000

ROM: ROMMON Emulation Microcode
ROM: 3600 Software (C3640-IK9S-M), Version 12.2(40a), RELEASE SOFTWARE (fc1)

Router uptime is 3 minutes
System returned to ROM by unknown reload cause - suspect boot_data[BOOT_COUNT] 0x0
System image file is "tftp://255.255.255.255/unknown"


This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

cisco 3640 (R4700) processor (revision 0xFF) with 126976K/4096K bytes of memory.
Processor board ID 00000000
R4700 CPU at 100Mhz, Implementation 33, Rev 1.2
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
1 FastEthernet/IEEE 802.3 interface(s)
4 Serial network interface(s)
DRAM configuration is 64 bits wide with parity enabled.
125K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash (Read/Write)

Configuration register is 0x2142

Router>
```

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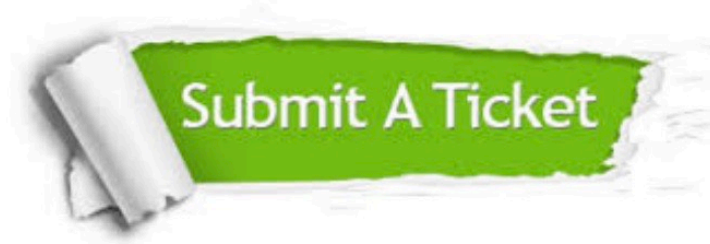To Read the Whole Q&As, please purchase the Complete Version from Our website.

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