



# 640-554<sup>Q&As</sup>

Implementing Cisco IOS Network Security (IINS v2.0)

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### QUESTION 1

Which statement best represents the characteristics of a VLAN?

- A. Ports in a VLAN will not share broadcasts amongst physically separate switches.
- B. A VLAN can only connect across a LAN within the same building.
- C. A VLAN is a logical broadcast domain that can span multiple physical LAN segments.
- D. A VLAN provides individual port security.

Correct Answer: C

[http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli\\_rel\\_4\\_0\\_1a/VLANs.html](http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli_rel_4_0_1a/VLANs.html)

Configuring VLANs You can use virtual LANs (VLANs) to divide the network into separate logical areas. VLANs can also be considered as broadcast domains. Any switch port can belong to a VLAN, and unicast, broadcast, and multicast packets are forwarded and flooded only to end stations in that VLAN. Each VLAN is considered a logical network, and packets destined for stations that do not belong to the VLAN must be forwarded through a router.

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### QUESTION 2

Which VTP mode allows you to change the VLAN configuration and will then propagate the change throughout the entire switched network?

- A. VTP server
- B. VTP client
- C. VTP transparent
- D. VTP off

Correct Answer: A

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### QUESTION 3

Which statement about asymmetric encryption algorithms is true?

- A. They use the same key for encryption and decryption of data.
- B. They use the same key for decryption but different keys for encryption of data.
- C. They use different keys for encryption and decryption of data.
- D. They use different keys for decryption but the same key for encryption of data.

Correct Answer: C

[http://www.cisco.com/web/about/ac123/ac147/archived\\_issues/ipj\\_12-4/124\\_ssh.html](http://www.cisco.com/web/about/ac123/ac147/archived_issues/ipj_12-4/124_ssh.html)

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## Transport Layer Protocol

Server authentication occurs at the transport layer, based on the server possessing a public-private key pair. A server may have multiple host keys using multiple different asymmetric encryption algorithms. Multiple hosts may share the same

host key. In any case, the server host key is used during key exchange to authenticate the identity of the host. For this authentication to be possible, the client must have presumptive knowledge of the server public host key. RFC 4251

dictates two alternative trust models that can be used:

The client has a local database that associates each host name (as typed by the user) with the corresponding public host key. This method requires no centrally administered infrastructure and no third-party coordination.

The downside is that the database of name-to-key associations may become burdensome to maintain. The host name-to-key association is certified by a trusted Certification Authority (CA). The client knows only the CA root key and can

verify the validity of all host keys certified by accepted CAs. This alternative eases the maintenance problem, because ideally only a single CA key needs to be securely stored on the client. On the other hand, each host key must be

appropriately certified by a central authority before authorization is possible.

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## QUESTION 4

Which two options are characteristics of the Cisco Configuration Professional Security Audit wizard? (Choose two.)

- A. displays a screen with fix-it check boxes to let you choose which potential security-related configuration changes to implement
- B. has two modes of operation: interactive and non-interactive
- C. automatically enables Cisco IOS firewall and Cisco IOS IPS to secure the router
- D. uses interactive dialogs and prompts to implement role-based CLI
- E. requires users to first identify which router interfaces connect to the inside network and which connect to the outside network

Correct Answer: AE

[http://www.cisco.com/en/US/docs/net\\_mgmt/cisco\\_configuration\\_professional/v2\\_7/olh/ccp.pdf](http://www.cisco.com/en/US/docs/net_mgmt/cisco_configuration_professional/v2_7/olh/ccp.pdf)

### Perform Security Audit

This option starts the Security Audit wizard. The Security Audit wizard tests your router configuration to determine if any potential security problems exist in the configuration, and then presents you with a screen that lets you determine which

of those security problems you want to fix. Once determined, the Security Audit wizard will make the necessary changes to the router configuration to fix those problems

To have Cisco CP perform a security audit and then fix the problems it has found:

#### Step 1

In the Feature bar, select Configure > Security > Security Audit.



#### Step 2

Click Perform Security Audit.

The Welcome page of the Security Audit wizard appears.

#### Step 3

Click Next>.

The Security Audit Interface Configuration page appears.

#### Step 4

The Security Audit wizard needs to know which of your router interfaces connect to your inside network and which connect outside of your network. For each interface listed, check either the Inside or Outside check box to indicate where the

interface connects.

#### Step 5

Click Next> .

The Security Audit wizard tests your router configuration to determine which possible security problems may exist. A screen showing the progress of this action appears, listing all of the configuration options being tested for, and whether or

not the current router configuration passes those tests. If you want to save this report to a file, click Save Report.

#### Step 6

Click Close.

The Security Audit Report Card screen appears, showing a list of possible security problems.

#### Step 7

Check the Fix it boxes next to any problems that you want Cisco Configuration Professional (Cisco CP) to fix.

For a description of the problem and a list of the Cisco IOS commands that will be added to your configuration, click the problem description to display a help page about that problem.

#### Step 8

Click Next>.

#### Step 9

The Security Audit wizard may display one or more screens requiring you to enter information to fix certain problems. Enter the information as required and click Next> for each of those screens.

#### Step 10

The Summary page of the wizard shows a list of all the configuration changes that Security Audit will make.

Click Finish to deliver those changes to your router.



## QUESTION 5

What are three of the security conditions that Cisco Configuration Professional One-Step Lockdown can automatically detect and correct on a Cisco router? (Choose three.)

- A. One-Step Lockdown can set the enable secret password.
- B. One-Step Lockdown can disable unused ports.
- C. One-Step Lockdown can disable the TCP small servers service.
- D. One-Step Lockdown can enable IP Cisco Express Forwarding.
- E. One-Step Lockdown can enable DHCP snooping.
- F. One-Step Lockdown can enable SNMP version 3.

Correct Answer: ACD

One-Step Lockdown This option tests your router configuration for any potential security problems and automatically makes any necessary configuration changes to correct any problems found. The conditions checked for and, if needed, corrected are as follows: ?Disable Finger Service ?Disable PAD Service ?Disable TCP Small Servers Service ?Disable UDP Small Servers Service ?Disable IP BOOTP Server Service ?Disable IP Identification Service ?Disable CDP ?Disable IP Source Route ?Enable Password Encryption Service ?Enable TCP Keepalives for Inbound Telnet Sessions ?Enable TCP Keepalives for Outbound Telnet Sessions ?Enable Sequence Numbers and Time Stamps on Debugs ?Enable IP CEF ?Disable IP Gratuitous ARPs ?Set Minimum Password Length to Less Than 6 Characters ?Set Authentication Failure Rate to Less Than 3 Retries ?Set TCP Synwait Time ?Set Banner ?Enable Logging ?Set Enable Secret Password ?Disable SNMP ?Set Scheduler Interval ?Set Scheduler Allocate ?Set Users ?Enable Telnet Settings ?Enable NetFlow Switching ?Disable IP Redirects ?Disable IP Proxy ARP ?Disable IP Directed Broadcast ?Disable MOP Service ?Disable IP Unreachables ?Disable IP Mask Reply ?Disable IP Unreachables on NULL Interface ?Enable Unicast RPF on Outside Interfaces ?Enable Firewall on All of the Outside Interfaces ?Set Access Class on HTTP Server Service ?Set Access Class on VTY Lines ?Enable SSH for Access to the Router

Reference: [http://www.cisco.com/c/en/us/td/docs/routers/access/cisco\\_router\\_and\\_security\\_device\\_manager/24/software/user/guide/SAudt.html](http://www.cisco.com/c/en/us/td/docs/routers/access/cisco_router_and_security_device_manager/24/software/user/guide/SAudt.html)

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