



# 210-260<sup>Q&As</sup>

Implementing Cisco Network Security

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### QUESTION 1

What do you use when you have a network object or group and want to use an IP address?

- A. Static NAT
- B. Dynamic NAT
- C. identity NAT
- D. Static PAT

Correct Answer: B

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### QUESTION 2

Which three options are common examples of AAA implementation on Cisco routers? (Choose three.)

- A. authenticating remote users who are accessing the corporate LAN through IPsec VPN connections
- B. authenticating administrator access to the router console port, auxiliary port, and vty ports
- C. implementing PKI to authenticate and authorize IPsec VPN peers using digital certificates
- D. tracking Cisco NetFlow accounting statistics
- E. securing the router by locking down all unused services
- F. performing router commands authorization using TACACS+

Correct Answer: ABF

[http://www.cisco.com/en/US/products/ps6638/products\\_data\\_sheet09186a00804fe332.html](http://www.cisco.com/en/US/products/ps6638/products_data_sheet09186a00804fe332.html)

#### Need for AAA Services

Security for user access to the network and the ability to dynamically define a user's profile to gain access to network resources has a legacy dating back to asynchronous dial access. AAA network security services provide the primary framework through which a network administrator can set up access control on network points of entry or network access servers, which is usually the function of a router or access server.

Authentication identifies a user; authorization determines what that user can do; and accounting monitors the network usage time for billing purposes. AAA information is typically stored in an external database or remote server such as

RADIUS or TACACS+.

The information can also be stored locally on the access server or router. Remote security servers, such as RADIUS and TACACS+, assign users specific privileges by associating attribute-value (AV) pairs, which define the access rights with

the appropriate user. All authorization methods must be defined through AAA.

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### QUESTION 3

Which Cisco feature can help mitigate spoofing attacks by verifying symmetry of the traffic path?

- A. Unidirectional Link Detection
- B. Unicast Reverse Path Forwarding
- C. TrustSec
- D. IP Source Guard

Correct Answer: B

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### QUESTION 4

What type of security support is provided by the Open Web Application Security Project?

- A. Education about common Web site vulnerabilities.
- B. A Web site security framework.
- C. A security discussion forum for Web site developers.
- D. Scoring of common vulnerabilities and exposures.

Correct Answer: A

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### QUESTION 5

Refer to the exhibit.

```
crypto ikev1 policy 1
encryption aes
hash md5
authentication pre-share
group 2
lifetime 14400
```

What is the effect of the given command sequence?

- A. It configures IKE Phase 1.
- B. It configures a site-to-site VPN tunnel.
- C. It configures a crypto policy with a key size of 14400.
- D. It configures IPSec Phase 2.



Correct Answer: A

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### QUESTION 6

Which statements about reflexive access lists are true? (Choose three.)

- A. Reflexive access lists create a permanent ACE
- B. Reflexive access lists approximate session filtering using the established keyword
- C. Reflexive access lists can be attached to standard named IP ACLs
- D. Reflexive access lists support UDP sessions
- E. Reflexive access lists can be attached to extended named IP ACLs
- F. Reflexive access lists support TCP sessions

Correct Answer: DEF

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### QUESTION 7

Which two options are advantages of an application layer firewall? (Choose two.)

- A. provides high-performance filtering
- B. makes DoS attacks difficult
- C. supports a large number of applications
- D. authenticates devices
- E. authenticates individuals

Correct Answer: BE

[http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6032/ps6094/ps6120/prod\\_white\\_aper0900aecd8058ec85.html](http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6032/ps6094/ps6120/prod_white_paper0900aecd8058ec85.html)

#### Adding Intrusion Prevention

Gartner's definition of a next-generation firewall is one that combines firewall filtering and intrusion prevention systems (IPSs). Like firewalls, IPSs filter packets in real time. But instead of filtering based on user profiles and application policies,

they scan for known malicious patterns in incoming code, called signatures. These signatures indicate the presence of malware, such as worms, Trojan horses, and spyware.

Malware can overwhelm server and network resources and cause denial of service (DoS) to internal employees, external Web users, or both. By filtering for known malicious signatures, IPSs add an extra layer of security to firewall

capabilities; once the malware is detected by the IPS, the system will block it from the network. Firewalls provide the first line of defense in any organization's network security infrastructure. They do so by matching corporate policies



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users\' network access rights to the connection information surrounding each access attempt. If the variables don\'t match, the firewall blocks the access connection. If the variables do match, the firewall allows the acceptable traffic to flow

through the network.

In this way, the firewall forms the basic building block of an organization\'s network security architecture. It pays to use one with superior performance to maximize network uptime for business-critical operations. The reason is that the rapid addition of voice, video, and collaborative traffic to corporate networks is driving the need for firewall engines that operate at very high speeds and that also support application-level inspection. While standard Layer 2 and Layer 3 firewalls prevent unauthorized access to internal and external networks, firewalls enhanced with application-level inspection examine, identify, and verify application types at Layer 7 to make sure unwanted or misbehaving application traffic doesn\'t join the network. With these capabilities, the firewall can enforce endpoint user registration and authentication and provide administrative control over the use of multimedia applications.

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#### QUESTION 8

What command could you implement in the firewall to conceal internal IP address?

- A. no source-route
- B. no broadcast....
- C. no proxy-arp

Correct Answer: C

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#### QUESTION 9

Which two are characteristics of RADIUS? (Choose two.)

- A. Uses TCP ports 1812/1813
- B. Uses UDP port 49
- C. Encrypts only the password between user and server
- D. Uses TCP port 49
- E. Uses UDP ports 1812/1813

Correct Answer: CE

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#### QUESTION 10

Refer to the exhibit.



```
current_peer: 10.1.1.5
  PERMIT, flags={origin_is_acl,}
  #pkts encaps: 1205, #pkts encrypt: 1205, #pkts digest 1205
  #pkts decaps: 1168, #pkts decrypt: 1168, #pkts verify 1168
  #pkts compressed: 0, #pkts decompressed: 0
  #pkts not compressed: 0, #pkts compr. failed: 0,
  #pkts decompress failed: 0, #send errors 0, #recv errors 0
  local crypto endpt.: 10.1.1.1, remote crypto endpt.: 10.1.1.5
```



While troubleshooting site-to-site VPN, you issued the show crypto ipsec sa command. What does the given output show?

- A. IPSec Phase 2 is established between 10.1.1.1 and 10.1.1.5.
- B. ISAKMP security associations are established between 10.1.1.5 and 10.1.1.1.
- C. IKE version 2 security associations are established between 10.1.1.1 and 10.1.1.5.
- D. IPSec Phase 2 is down due to a mismatch between encrypted and decrypted packets.

Correct Answer: A

#### QUESTION 11

Which protocol offers data Integrity, encryption, authentication, and anti-replay functions for IPSec VPN?

- A. AH protocol
- B. IKEv2 Protocol
- C. IKEv1 Protocol
- D. ESP protocol

Correct Answer: D

#### QUESTION 12

Which two functions can SIEM provide? (Choose Two)

- A. Correlation between logs and events from multiple systems.
- B. event aggregation that allows for reduced log storage requirements.
- C. proactive malware analysis to block malicious traffic.
- D. dual-factor authentication.
- E. centralized firewall management.



Correct Answer: AC

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### QUESTION 13

Which command causes a Layer 2 switch interface to operate as a Layer 3 interface?

- A. no switchport nonnegotiate
- B. switchport
- C. no switchport mode dynamic auto
- D. no switchport

Correct Answer: D

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### QUESTION 14

Which two types of firewalls work at layer 4 and above? (Choose two.)

- A. Application level firewall
- B. Circuit-level gateway
- C. Static packet filter
- D. Network Address Translation
- E. Stateful inspection

Correct Answer: AB

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### QUESTION 15

If a router configuration includes the line `aaa authentication login default group tacacs+ enable`, which events will occur when the TACACS+ server returns an error? (Choose two.)

- A. The user will be prompted to authenticate using the enable password
- B. Authentication attempts to the router will be denied
- C. Authentication will use the router's local database
- D. Authentication attempts will be sent to the TACACS+ server

Correct Answer: AB

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#### QUESTION 16

Which two statements about Telnet access to the ASA are true? (Choose two).

- A. You may VPN to the lowest security interface to telnet to an inside interface.
- B. You must configure an AAA server to enable Telnet.
- C. You can access all interfaces on an ASA using Telnet.
- D. You must use the command virtual telnet to enable Telnet.
- E. Best practice is to disable Telnet and use SSH.

Correct Answer: AE

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#### QUESTION 17

How to verify that TACACS+ connectivity to a device?

- A. You successfully log in to the device by using the local credentials.
- B. You connect to the device using SSH and receive the login prompt.
- C. You successfully log in to the device by using ACS credentials.
- D. You connect via console port and receive the login prompt.

Correct Answer: B

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#### QUESTION 18

Which three statements about Cisco host-based IPS solutions are true? (Choose three.)

- A. It can view encrypted files.
- B. It can have more restrictive policies than network-based IPS.
- C. It can generate alerts based on behavior at the desktop level.
- D. It can be deployed at the perimeter.
- E. It uses signature-based policies.
- F. It works with deployed firewalls.

Correct Answer: ABC

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#### QUESTION 19

Which two ESA services are available for incoming and outgoing mails? (Choose two.)





- A. DLP
- B. reputation filter
- C. content filter
- D. anti-Dos
- E. antispam

Correct Answer: AC

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#### QUESTION 20

Which components does HMAC use to determine the authenticity and integrity of a message? (Choose two.)

- A. The password
- B. The hash
- C. The key
- D. The transform set

Correct Answer: BC

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#### QUESTION 21

A proxy firewall protects against which type of attack?

- A. cross-site scripting attack
- B. worm traffic
- C. port scanning
- D. DDoS attacks

Correct Answer: A

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#### QUESTION 22

Which type of address translation supports the initiation of communications bidirectionally?

- A. multi-session PAT
- B. static NAT
- C. dynamic PAT



D. dynamic NAT

Correct Answer: D

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#### QUESTION 23

Which accounting notices are used to send a failed authentication attempt record to a AAA server? (Choose two.)

- A. start-stop
- B. stop-record
- C. stop-only
- D. stop

Correct Answer: AC

---

#### QUESTION 24

Which two characteristics of a PVLAN are true?

- A. Isolated ports cannot communicate with other ports on the same VLAN.
- B. They require VTP to be enabled in server mode.
- C. Promiscuous ports can communicate with PVLAN ports.
- D. PVLAN ports can be configured as EtherChannel ports.
- E. Community ports have to be a part of the trunk.

Correct Answer: CE

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#### QUESTION 25

Which statement about application blocking is true?

- A. It blocks access to specific programs.
- B. It blocks access to files with specific extensions.
- C. It blocks access to specific network addresses.
- D. It blocks access to specific network services.

Correct Answer: A

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#### QUESTION 26

Which type of encryption technology has the broadcast platform support?

- A. Middleware
- B. Hardware
- C. Software
- D. File-level

Correct Answer: C

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#### QUESTION 27

How can the administrator enable permanent client installation in a Cisco AnyConnect VPN firewall configuration?

- A. Issue the command anyconnect keep-installer under the group policy or username webvpn mode
- B. Issue the command anyconnect keep-installer installed in the global configuration
- C. Issue the command anyconnect keep-installer installed under the group policy or username webvpn mode
- D. Issue the command anyconnect keep-installer installer under the group policy or username webvpn mode

Correct Answer: C

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#### QUESTION 28

What can the SMTP preprocessor in FirePOWER normalize?

- A. It can extract and decode email attachments in client to server traffic.
- B. It can look up the email sender.
- C. It compares known threats to the email sender.
- D. It can forward the SMTP traffic to an email filter server.
- E. It uses the Traffic Anomaly Detector.

Correct Answer: A

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#### QUESTION 29

If a switch receives a superior BPDU and goes directly into a blocked state, what mechanism must be in use?

- A. root guard



- B. EtherChannel guard
- C. loop guard
- D. BPDU guard

Correct Answer: A

### QUESTION 30

What is the actual IOS privilege level of User Exec mode?

- A. 1
- B. 0
- C. 5
- D. 15

Correct Answer: A

Explanation: By default, the Cisco IOS software command-line interface (CLI) has two levels of access to commands: user EXEC mode (level 1) and privileged EXEC mode (level 15). However, you can configure additional levels of access to commands, called privilege levels, to meet the needs of your users while protecting the system from unauthorized access. Up to 16 privilege levels can be configured, from level 0, which is the most restricted level, to level 15, which is the least restricted level. Source:

[http://www.cisco.com/c/en/us/td/docs/ios/12\\_2/security/configuration/guide/fsecur\\_c/scfpas s.html](http://www.cisco.com/c/en/us/td/docs/ios/12_2/security/configuration/guide/fsecur_c/scfpas s.html)

### QUESTION 31

Refer to the exhibit.



What type of firewall would use the given configuration line?

- A. a stateful firewall
- B. a personal firewall
- C. a proxy firewall
- D. an application firewall
- E. a stateless firewall

Correct Answer: A



### QUESTION 32

Refer to the exhibit.

```
R1> show clock detail
.22:22:35.123 UTC Tue Feb 26 2013
Time source is NTP
```

Which statement about the device time is true?

- A. The time is authoritative, but the NTP process has lost contact with its servers.
- B. The time is authoritative because the clock is in sync.
- C. The clock is out of sync.
- D. NTP is configured incorrectly.
- E. The time is not authoritative.

Correct Answer: A

---

### QUESTION 33

Which type of attack is directed against the network directly:

- A. Denial of Service
- B. phishing
- C. trojan horse

Correct Answer: A

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### QUESTION 34

How can you allow bidirectional traffic?

- A. static NAT
- B. dynamic NAT
- C. dynamic PAT
- D. multi-NAT

Correct Answer: A

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Bidirectional initiation--Static NAT allows connections to be initiated bidirectionally, meaning both to the host and from the host.

Source: [http://www.cisco.com/c/en/us/td/docs/security/asa/asa83/configuration/guide/config/nat\\_overview.html](http://www.cisco.com/c/en/us/td/docs/security/asa/asa83/configuration/guide/config/nat_overview.html)

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#### QUESTION 35

What configuration allows AnyConnect to automatically establish a VPN session when a user logs in to the computer?

- A. always-on
- B. proxy
- C. transparent mode
- D. Trusted Network Detection

Correct Answer: A

---

#### QUESTION 36

According to Cisco best practices, which three protocols should the default ACL allow on an access port to enable wired BYOD devices to supply valid credentials and connect to the network? (Choose three.)

- A. BOOTP
- B. TFTP
- C. DNS
- D. MAB
- E. HTTP
- F. 802.1x

Correct Answer: ABC

---

#### QUESTION 37

What is a benefit of a web application firewall?

- A. It blocks known vulnerabilities without patching applications.
- B. It simplifies troubleshooting.
- C. It accelerates web traffic.
- D. It supports all networking protocols.

Correct Answer: A

---



### QUESTION 38

Which command will configure a Cisco ASA firewall to authenticate users when they enter the enable syntax using the local database with no fallback method?

- A. aaa authentication enable console LOCAL SERVER\_GROUP
- B. aaa authentication enable console SERVER\_GROUP LOCAL
- C. aaa authentication enable console local
- D. aaa authentication enable console LOCAL

Correct Answer: D

---

### QUESTION 39

Which filter uses in Web reputation to prevent from Web Based Attacks? (Choose two)

- A. outbreak filter
- B. buffer overflow filter
- C. bayesian overflow filter
- D. web reputation
- E. exploit filtering

Correct Answer: AD

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### QUESTION 40

What encryption technology has broadest platform support

- A. hardware
- B. middleware
- C. Software
- D. File level

Correct Answer: C

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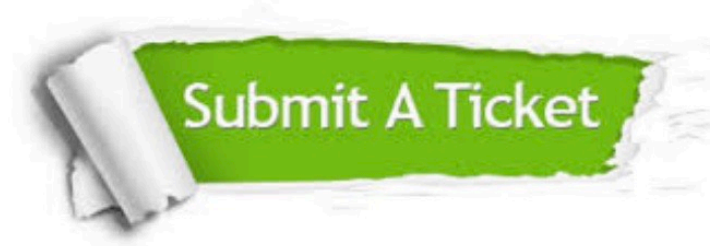
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