



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

Implementing Cisco Network Security

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#### QUESTION 1

In which three ways does the RADIUS protocol differ from TACACS? (Choose three.)

- A. RADIUS uses UDP to communicate with the NAS.
- B. RADIUS encrypts only the password field in an authentication packet.
- C. RADIUS authenticates and authorizes simultaneously, causing fewer packets to be transmitted.
- D. RADIUS uses TCP to communicate with the NAS.
- E. RADIUS can encrypt the entire packet that is sent to the NAS.
- F. RADIUS supports per-command authorization.

Correct Answer: ABC

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#### QUESTION 2

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 3

With which type of Layer 2 attack can you intercept traffic that is destined for one host?

- A. MAC spoofing
- B. CAM overflow

Correct Answer: A

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#### QUESTION 4



Which command is used to verify a VPN connection is operational?

- A. sh crypto ipsec sa
- B. sh crypto isakmp sa
- C. debug crypto isakmp
- D. sh crypto session

Correct Answer: A

#show crypto ipsec sa - This command shows IPsec SAs built between peers In the output you see #pkts encaps: 345, #pkts encrypt: 345, #pkts digest 0 #pkts decaps: 366, #pkts decrypt: 366, #pkts verify 0 which means packets are encrypted and decrypted by the IPsec peer.

Source: [http://www.cisco.com/c/en/us/support/docs/security-vpn/ipsec-negotiation-ike-protocols/5409-ipsecdebug-00.html#ipsec\\_sa](http://www.cisco.com/c/en/us/support/docs/security-vpn/ipsec-negotiation-ike-protocols/5409-ipsecdebug-00.html#ipsec_sa)

#### QUESTION 5

Refer to the exhibit.

```
authentication event fail action next-method
authentication event no-response action authorize vlan 101
authentication order mab dot1x webauth
authentication priority dot1x mab
authentication port-control auto
dot1x pae authenticator
```

If a supplicant supplies incorrect credentials for all authentication methods configured on the switch, how will the switch respond?

- A. The supplicant will fail to advance beyond the webauth method.
- B. The switch will cycle through the configured authentication methods indefinitely.
- C. The authentication attempt will time out and the switch will place the port into the unauthorized state.
- D. The authentication attempt will time out and the switch will place the port into VLAN 101.

Correct Answer: A

#### QUESTION 6

Which STP feature can prevent an attacker from becoming the root bridge by immediately shutting down the interface when it receives a BPDU?

- A. BPDU filtering



- B. Root guard
- C. BPDU guard
- D. portFast

Correct Answer: C

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#### QUESTION 7

Which two features do CoPP and CPPr use to protect the control plane? (Choose two.)

- A. QoS
- B. traffic classification
- C. access lists
- D. policy maps
- E. class maps
- F. Cisco Express Forwarding

Correct Answer: AB

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#### QUESTION 8

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 9

What is a valid implicit permit rule for traffic that is traversing the ASA firewall?

- A. ARPs in both directions are permitted in transparent mode only.
- B. Unicast IPv4 traffic from a higher security interface to a lower security interface is permitted in routed mode only.
- C. Unicast IPv6 traffic from a higher security interface to a lower security interface is permitted in transparent mode



only.

D. Only BPDUs from a higher security interface to a lower security interface are permitted in transparent mode.

E. Only BPDUs from a higher security interface to a lower security interface are permitted in routed mode.

Correct Answer: A

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#### QUESTION 10

Which of Diffie-Hellman group(s) is/are support(ed) by CISCO VPN Product? (Choose all that apply)

A. Group 1

B. Group 2

C. Group 3

D. Group 4

E. Group 5

F. Group 6

G. Group 7

Correct Answer: ABDE

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#### QUESTION 11

Which type of security control is defense in depth?

A. Threat mitigation

B. Risk analysis

C. Botnet mitigation

D. Overt and covert channels

Correct Answer: A

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#### QUESTION 12

SSL certificates are issued by Certificate Authority(CA) are?

A. Trusted root

B. Not trusted



Correct Answer: A

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### QUESTION 13

What are two challenges when deploying host-level IPS? (Choose Two)

- A. The deployment must support multiple operating systems.
- B. It does not provide protection for offsite computers.
- C. It is unable to provide a complete network picture of an attack.
- D. It is unable to determine the outcome of every attack that it detects.
- E. It is unable to detect fragmentation attacks.

Correct Answer: AB

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### QUESTION 14

Which command verifies phase 1 of an IPsec VPN on a Cisco router?

- A. show crypto map
- B. show crypto ipsec sa
- C. show crypto isakmp sa
- D. show crypto engine connection active

Correct Answer: C

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### QUESTION 15

Which mechanism does the FireAMP Connector use to avoid conflicts with other security applications such as antivirus products?

- A. exclusions
- B. virtualization
- C. containers
- D. sandboxing

Correct Answer: D

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#### QUESTION 16

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 17

What can cause the the state table of a stateful firewall to update? (choose two)

- A. when a connection is created
- B. When a connection's timer has expired within state table
- C. C. when packet is evaluated against the outbound access list and is denied
- D. D. when outbound packets forwarded to outbound interface
- E. E. when rate-limiting is applied

Correct Answer: AB

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#### QUESTION 18

What type of algorithm uses the same key to encrypt and decrypt data?

- A. a symmetric algorithm
- B. an asymmetric algorithm
- C. a Public Key Infrastructure algorithm
- D. an IP security algorithm

Correct Answer: A

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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

In which type of attack does an attacker send email messages that ask the recipient to click a link such as <https://www.cisco.net.cc/securelogon?>

- A. phishing
- B. pharming
- C. solicitation
- D. secure transaction

Correct Answer: A

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#### QUESTION 21

The command `debug crypto isakmp` results in ?

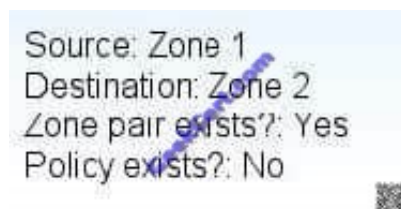
- A. Troubleshooting ISAKMP (Phase 1) negotiation problems

Correct Answer: A

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#### QUESTION 22

Which option is the resulting action in a zone-based policy firewall configuration with these conditions?



- A. no impact to zoning or policy
- B. no policy lookup (pass)





- C. drop
- D. apply default policy

Correct Answer: C

[http://www.cisco.com/en/US/docs/ios-xml/ios/sec\\_data\\_zbf/configuration/xr-3s/sec-zone-pol-fw.html](http://www.cisco.com/en/US/docs/ios-xml/ios/sec_data_zbf/configuration/xr-3s/sec-zone-pol-fw.html) Zone Pairs

A zone pair allows you to specify a unidirectional firewall policy between two security zones.

To define a zone pair, use the zone-pair security command. The direction of the traffic is specified by source and destination zones. The source and destination zones of a zone pair must be security zones.

You can select the default or self zone as either the source or the destination zone. The self zone is a system-defined zone which does not have any interfaces as members. A zone pair that includes the self zone, along with the associated

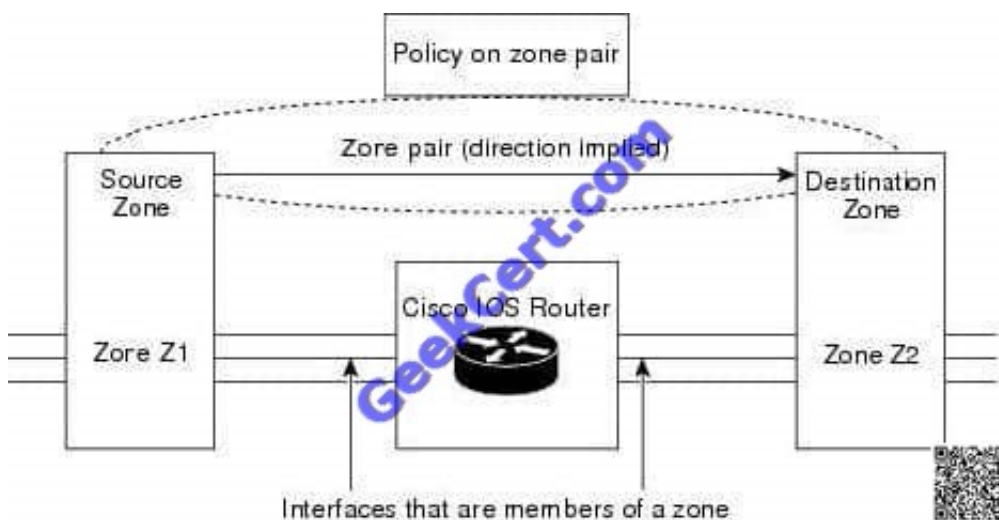
policy, applies to traffic directed to the device or traffic generated by the device. It does not apply to traffic through the device.

The most common usage of firewall is to apply them to traffic through a device, so you need at least two zones (that is, you cannot use the self zone).

To permit traffic between zone member interfaces, you must configure a policy permitting (or inspecting) traffic between that zone and another zone. To attach a firewall policy map to the target zone pair, use the servicepolicy type inspect command.

The figure below shows the application of a firewall policy to traffic flowing from zone Z1 to zone Z2, which means that the ingress interface for the traffic is a member of zone Z1 and the egress interface is a member of zone Z2.

Figure 2. Zone Pairs



If there are two zones and you require policies for traffic going in both directions (from Z1 to Z2 and Z2 to Z1), you must configure two zone pairs (one for each direction).

If a policy is not configured between zone pairs, traffic is dropped. However, it is not necessary to configure a zone pair and a service policy solely for the return traffic. By default, return traffic is not allowed. If a service policy inspects the traffic in the forward direction and there is no zone pair and service policy for the return traffic, the return traffic is inspected. If a service policy passes the traffic in the forward direction and there is no zone pair and service policy for



the return traffic, the return traffic is dropped. In both these cases, you need to configure a zone pair and a service policy to allow the return traffic. In the above figure, it is not mandatory that you configure a zone pair source and destination for allowing return traffic from Z2 to Z1. The service policy on Z1 to Z2 zone pair takes care of it.

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### QUESTION 23

Which three statements about host-based IPS 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 24

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 25

If you change the native VLAN on the trunk port to an unused VLAN, what happens if an attacker attempts a double-tagging attack?

- A. The trunk port would go into an error-disabled state.
- B. A VLAN hopping attack would be successful.
- C. A VLAN hopping attack would be prevented.
- D. The attacked VLAN will be pruned.



Correct Answer: C

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#### QUESTION 26

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

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#### QUESTION 27

What feature defines a campus area network?

- A. It has a single geographic location.
- B. It has limited or restricted Internet access.
- C. It has a limited number of segments.
- D. it lacks external connectivity.

Correct Answer: A

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#### QUESTION 28

Which alert protocol is used with Cisco IPS Manager Express to support up to 10 sensors?

- A. SDEE
- B. Syslog
- C. SNMP
- D. CSM

Correct Answer: A

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#### QUESTION 29

Which type of PVLAN port allows communication from all port types?



- A. isolated
- B. community
- C. in-line
- D. promiscuous

Correct Answer: D

### QUESTION 30

Refer to the exhibit.

dst	src	state	conn-id	slot
10.10.10.2	10.1.1.5	QM_IDLE	1	0

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

- A. IPsec Phase 1 is established between 10.10.10.2 and 10.1.1.5.
- B. IPsec Phase 2 is established between 10.10.10.2 and 10.1.1.5.
- C. IPsec Phase 1 is down due to a QM\_IDLE state.
- D. IPsec Phase 2 is down due to a QM\_IDLE state.

Correct Answer: A

### QUESTION 31

Which three ESP fields can be encrypted during transmission? (Choose three.)

- A. Security Parameter Index
- B. Sequence Number
- C. MAC Address
- D. Padding
- E. Pad Length
- F. Next Header

Correct Answer: DEF

### QUESTION 32



Which tasks is the session management path responsible for? (Choose three.)

- A. Verifying IP checksums
- B. Performing route lookup
- C. Performing session lookup
- D. Allocating NAT translations
- E. Checking TCP sequence numbers
- F. Checking packets against the access list

Correct Answer: BDF

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### QUESTION 33

Which command enable ospf authentication on an interface?

- A. ip ospf authentication message-digest
- B. network 192.168.10.0 0.0.0.255 area 0
- C. area 20 authentication message-digest
- D. ip ospf message-digest-key 1 md5 CCNA

Correct Answer: A

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### QUESTION 34

Which technology can block a non-malicious program that is run from a local computer that has been disconnected from the network?

- A. antivirus software
- B. firewall
- C. host IPS
- D. network IPS

Correct Answer: C

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### QUESTION 35



Which networks topology describes multiple LANs in a geographically limited area?

- A. CAN
- B. MAN
- C. SOHO
- D. PAN

Correct Answer: B

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### QUESTION 36

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 37

Which IOS command do you enter to test authentication against a AAA server?

- A. aaa authentication enable default test group tacacs+
- B. dialer aaa suffix password
- C. ppp authentication chap pap test
- D. test aaa-server authentication dialergroup username password

Correct Answer: D

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### QUESTION 38

Which technology can you implement to centrally mitigate potential threats when users on your network download files that might be malicious?

- A. Enable file-reputation services to inspect all files that traverse the company network and block files with low reputation scores.



- B. Verify that the company IPS blocks all known malicious websites.
- C. Verify that antivirus software is installed and up to date for all users on your network.
- D. Implement URL filtering on the perimeter firewall.

Correct Answer: D

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### QUESTION 39

Which three statements are characteristics of DHCP Spoofing? (choose three)

- A. Arp Poisoning
- B. Modify Traffic in transit
- C. Used to perform man-in-the-middle attack
- D. Physically modify the network gateway
- E. Protect the identity of the attacker by masking the DHCP address
- F. can access most network devices

Correct Answer: ABC

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### QUESTION 40

If a packet matches more than one class map in an individual feature type's policy map, how does the ASA handle the packet?

- A. The ASA will apply the actions from only the first matching class map it finds for the feature type.
- B. The ASA will apply the actions from only the most specific matching class map it finds for the feature type.
- C. The ASA will apply the actions from all matching class maps it finds for the feature type.
- D. The ASA will apply the actions from only the last matching class map it finds for the feature type.

Correct Answer: A

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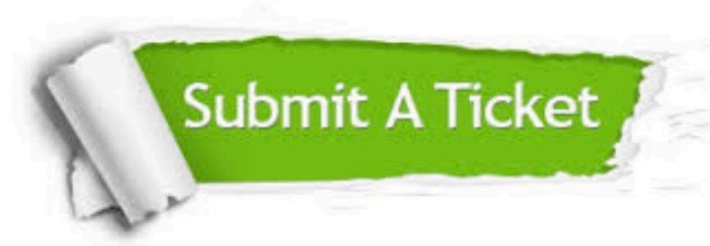
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