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Exam : 642-637

Title : Securing Networks with Cisco
Routers and Switches (SECURE)
v1.0

Vendors : Cisco

Version : DEMO

1.Refer to the exhibit.

```

Router# debug crypto isakmp
*ISAKMP (1009): received packet from 192.168.2.2 dport 500 sport 500 Global (I)
MM_KEY_EXCH
ISAKMP:(1009): processing ID payload. message ID = 0
ISAKMP (1009): ID payload
  next-payload : 8
  type         : 1
  address      : 192.168.2.2
  protocol     : 17
  port        : 500
  length       : 12
ISAKMP:(0):: peer matches *none* of the profiles
ISAKMP:(1009): processing HASH payload. message ID = 0
ISAKMP:(1009): SA authentication status:      authenticated
ISAKMP:(1009): SA has been authenticated with 192.168.2.2
    
```

Given the partial output of the debug command, what can be determined?

- A. There is no ID payload in the packet, as indicated by the message ID = 0.
- B. The peer has not matched any offered profiles.
- C. This is an IKE quick mode negotiation.
- D. This is normal output of a successful Phase 1 IKE exchange.

Answer: B

2.DRAG DROP

Drag the items on the left to the boxes on the right that identify important information you should collect prior to deploying 802.1X authentication in a Cisco IBNS environment. Not all items will be used.

existing list of LAN switches	
existing user credentials	
existing addressing scheme	
existing automated software deployment mechanisms	
existing transport protocols used in the environment	
trustworthiness of the existing transport network	

Answer:

Drag the items on the left to the boxes on the right that identify important information you should collect prior to deploying 802.1X authentication in a Cisco IBNS environment. Not all items will be used.

existing list of LAN switches	existing list of LAN switches
existing user credentials	existing user credentials
existing addressing scheme	existing addressing scheme
existing automated software deployment mechanisms	existing transport protocols used in the environment
existing transport protocols used in the environment	
trustworthiness of the existing transport network	

3.Refer to the exhibit.

Scenario

You have been given the task of performing initial zone-based policy firewall configurations. You will need to create zones, assign the zones to specific interfaces, and create zone pairs to allow for traffic flow between interfaces. You will also need to define a zone-based policy firewall and assign the policy to the zone pair. To access the router console ports, refer to the exhibit, click the router for access, and perform the following tasks.

Note that when performing the configuration, you should use the exact names highlighted in bold below:

- Globally create zones and label them with the following names:
 - **OUTSIDE**
 - **INSIDE**
- Assign interfaces to zones as indicated in the exhibit
- Create a zone pair for traffic flowing from the inside to outside zones named **IN-TO-OUT**
- Define a zone-based firewall policy named **IN-TO-OUT-POLICY**
 - Use the "match protocol" classification option to statefully inspect HTTP traffic and drop all other traffic
 - Use a class-map named **HTTP_POLICY**
- Apply zone-based firewall policy **IN-TO-OUT-POLICY** to the zone pair

Topology

The diagram shows a central router with two interfaces. The left interface is Fa0/0/0, connected to a red box labeled 'OUTSIDE zone'. The right interface is Fa0/0/1, connected to a green box labeled 'INSIDE zone'.

Scenario | Topology | RI

```
webvpn context MY-WEBVPN
policy group GROUP-POLICY
functions svc-enabled
svc keep-client-installed
svc address-pool MY-POOL
svc default-domain cisco.com
svc dns-server primary 10.10.1.1
svc split dns domain.com
svc split include 10.0.0.0 255.0.0.0
filter tunnel FILTER-ACL
```

Which two Cisco IOS WebVPN features are enabled with the partial configuration shown? (Choose two.)

- A. The end-user Cisco AnyConnect VPN software will remain installed on the end system.
- B. If the Cisco AnyConnect VPN software fails to install on the end-user PC, the end user cannot use

other modes.

- C. Client based full tunnel access has been enabled.
- D. Traffic destined to the 10.0.0.0/8 network will not be tunneled and will be allowed access via a split tunnel.
- E. Clients will be assigned IP addresses in the 10.10.0.0/16 range.

Answer: A,C

4.Which two of these are benefits of implementing a zone-based policy firewall in transparent mode?
(Choose two.)

- A. Less firewall management is needed.
- B. It can be easily introduced into an existing network.
- C. IP readdressing is unnecessary.
- D. It adds the ability to statefully inspect non-IP traffic.
- E. It has less impact on data flows.

Answer: B,C

5.When configuring a zone-based policy firewall, what will be the resulting action if you do not specify any zone pairs for a possible pair of zones?

- A. All sessions will pass through the zone without being inspected.
- B. All sessions will be denied between these two zones by default.
- C. All sessions will have to pass through the router "self zone" for inspection before being allowed to pass to the destination zone.
- D. This configuration statelessly allows packets to be delivered to the destination zone.

Answer: B

6.Refer to the exhibit.

```
Router#show crypto isakmp sa
IPv4 Crypto ISAKMP SA
dst          src          state          conn-id status
192.168.1.1  192.168.2.1  QM_IDLE        1002 ACTIVE
```

What can be determined from the output of this show command?

- A. The IPsec connection is in an idle state.
- B. The IKE association is in the process of being set up.
- C. The IKE status is authenticated.
- D. The ISAKMP state is waiting for quick mode status to authenticate before IPsec parameters are passed between peers
- E. IKE Quick Mode is in the idle state, indicating a problem with IKE phase 1.

Answer: C

7.DRAG DROP

Drag the cryptographic CLI commands on the left to their definitions on the right. Not all items will be used.

show crypto map	delete IPsec security association
show crypto isakmp sa	verify cryptographic configurations and show SA lifetimes
clear crypto sa	verify the IPsec protection policy settings
show crypto isakmp policy	verify current IPsec settings in use by the SAs
clear crypto isakmp	clear active IKE connections
show crypto ipsec sa	
show crypto ipsec transform-set	

Answer:

Drag the cryptographic CLI commands on the left to their definitions on the right. Not all items will be used.

show crypto map	clear crypto sa
show crypto isakmp sa	show crypto map
clear crypto sa	show crypto ipsec transform-set
show crypto isakmp policy	show crypto ipsec sa
clear crypto isakmp	clear crypto isakmp
show crypto ipsec sa	
show crypto ipsec transform-set	

8. You are running Cisco IOS IPS software on your edge router. A new threat has become an issue. The Cisco IOS IPS software has a signature that can address the new threat, but you previously retired the signature. You decide to unretire that signature to regain the desired protection level. How should you act on your decision?

- A. Retired signatures are not present in the routers memory. You will need to download a new signature package to regain the retired signature.
- B. You should re-enable the signature and start inspecting traffic for signs of the new threat.
- C. Unretiring a signature will cause the router to recompile the signature database, which can temporarily affect performance.
- D. You cannot unretire a signature. To avoid a disruption in traffic flow, it's best to create a custom

signature until you can download a new signature package and reload the router.

Answer: C

9. Which statement best describes inside policy based NAT?

- A. Policy NAT rules are those that determine which addresses need to be translated per the enterprise security policy
- B. Policy NAT consists of policy rules based on outside sources attempting to communicate with inside endpoints.
- C. These rules use source addresses as the decision for translation policies.
- D. These rules are sensitive to all communicating endpoints.

Answer: A

10. Refer to the exhibit.

```
ip ips signature-category
  category all
    enabled false
    retired true
  category os ios
    enabled true
    retired false
  event-action produce-alert reset-tcp-connection
```

What can be determined about the IPS category configuration shown?

- A. All categories are disabled.
- B. All categories are retired.
- C. After all other categories were disabled, a custom category named "os ios" was created
- D. Only attacks on the Cisco IOS system result in preventative actions.

Answer: D

11. When Cisco IOS IPS is configured to use SDEE for event notification, how are events managed?

- A. They are stored in the router's event store and will allow authenticated remote systems to pull events from the event store.
- B. All events are immediately sent to the remote SDEE server.
- C. Events are sent via syslog over a secure SSUTLS communications channel.
- D. When the event store reaches its maximum configured number of event notifications, the stored events are sent via SDEE to a remote authenticated server and a new event store is created.

Answer: A

12. Which two of these will match a regular expression with the following configuration parameters?

[a-zA-Z][0-9][a-z] (Choose two.)

- A. Q3h
- B. B4Mn

C. aaB132AA

D. c7lm

E. BBpjnrIT

Answer: A,D

13.Which of these is a configurable Cisco IOS feature that triggers notifications if an attack attempts to exhaust critical router resources and if preventative controls have been bypassed or are not working correctly?

A. Control Plane Protection

B. Management Plane Protection

C. CPU and memory thresholding

D. SNMPv3

Answer: C

14.Which Cisco IOS IPS feature allows to you remove one or more actions from all active signatures based on the attacker and/or target address criteria, as well as the event risk rating criteria?

A. signature event action filters

B. signature event action overrides

C. signature attack severity rating

D. signature event risk rating

Answer: A

15.You are troubleshooting reported connectivity issues from remote users who are accessing corporate headquarters via an IPsec VPN connection. What should be your first step in troubleshooting these issues?

A. issue a show crypto isakmp policy command to verify matching policies of the tunnel endpoints

B. ping the tunnel endpoint

C. run a traceroute to verify the tunnel path

D. debug the connection process and look for any error messages in tunnel establishment

Answer: B

16.Which of these is correct regarding the configuration of virtual-access interfaces?

A. They cannot be saved to the startup configuration.

B. You must use static routes inside the tunnels.

C. DVTI interfaces should be assigned a unique IP address range.

D. The Virtual-Access 1 interface must be enabled in an up/up state administratively

Answer: A

17.Refer to the exhibit.

```

ip access-list extended INTRA_ZONE_ACL
 permit tcp 10.10.10.0 0.0.0.255 10.10.10.0 0.0.0.255 eq ssh
 !
class-map type inspect INTRAZONE_CLASS
 match access-group name INTRA_ZONE_ACL
 !
policy-map type inspect INTRAZONE_POLICY
 class type inspect INTRAZONE_CLASS
  inspect
 class class-default
  drop log
 !
zone-pair security INTRAZONE source INSIDE destination INSIDE
 service-policy type inspect INTRAZONE_POLICY

```

The INSIDE zone has been configured and assigned to two separate router interfaces. All other zones and interfaces have been properly configured. Given the configuration example shown, what can be determined?

- A. Hosts in the INSIDE zone, with addresses in the 10.10.10.0/24 network, can access any host in the 10.10.10.0/24 network using the SSH protocol.
- B. If a host in the INSIDE zone attempts to communicate via SSH with another host on a different interface within the INSIDE zone, communications must pass through the router self zone using the INTRAZONE policy.
- C. This is an illegal configuration. You cannot have the same source and destination zones.
- D. This policy configuration is not needed, traffic within the same zone is allowed to pass by default.

Answer: D

18. Which action does the command `private-vlan association 100,200` take?

- A. configures VLANs 100 and 200 and associates them as a community
- B. associates VLANs 100 and 200 with the primary VLAN
- C. creates two private VLANs with the designation of VLAN 100 and VLAN 200
- D. assigns VLANs 100 and 200 as an association of private VLANs

Answer: B

19. Which of these allows you to add event actions globally based on the risk rating of each event, without having to configure each signature individually?

- A. event action summarization
- B. event action filter
- C. event action override
- D. signature event action processor

Answer: C

20. When using Cisco Easy VPN, what are the three options for entering an XAUTH username and password for establishing a VPN connection from the Cisco Easy VPN remote router? (Choose three.)

- A. using an external AAA server
- B. entering the information via the router `crypto ipsec client ezvpn`

connect CLI command in privileged EXEC mode

C. using the router local user database

D. entering the information from the PC via a browser

E. storing the XAUTH credentials in the router configuration file

Answer: B,D,E