Vendor: Cisco

Exam Code: 642-637

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

Version: DEMO

QUESTION 1
Refer to the exhibit. Given the partial output of the debug command, what can be determined?

```
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
```

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: D

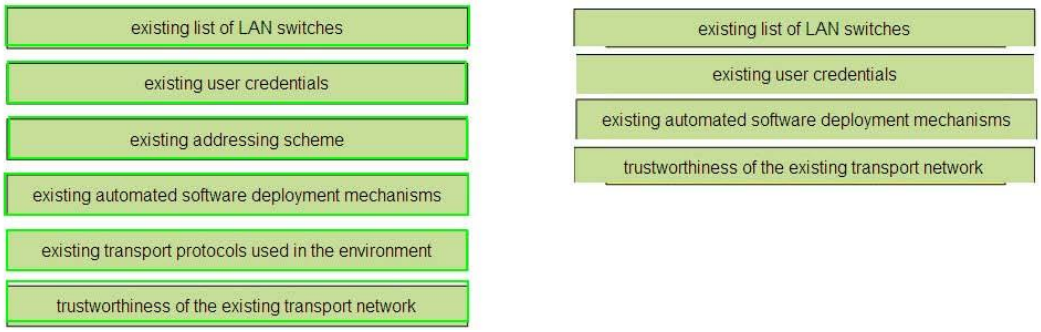
QUESTION 2
Drag and Drop Question.

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.



QUESTION 3
Refer to the exhibit. 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: AC

QUESTION 4
Refer to the exhibit. Which of these is correct regarding the configuration parameters shown?

```
crypto pki trustpoint MY-TRUSTPOINT
rsakeypair CS-KEYS
!
ip http server
!
crypto pki server MY-TRUSTPOINT
 issuer-name CN=MY-CS,OU=VPN,O=Cisco,C=US
 database url flash:/my-ca
 database level complete
 hash sha1
 lifetime certificate 730
 lifetime ca-certificate 3650
 no grant auto
 lifetime crl 5
```

A. Complete certificates will be written to and stored in NVRAM.
B. The RSA key pair is valid for five hours before being revoked.
C. The router is configured as a certificate server.
D. Certificate lifetimes are mismatched and will cause intermittent connectivity errors.
E. The router has enrolled to the MY-TRUSTPOINT PKI server, which is an external CA server.

Answer: C

QUESTION 5
Refer to the exhibit. Based on the configuration that is shown in the exhibit, select the three answers that apply. (Choose three.)

```
switch(config)#interface GigabitEthernet1/0/10
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#switchport voice vlan 40
Switch(config-if)#authentication host-mode multi-domain
Switch(config-if)#authentication open
Switch(config-if)#authentication order mab dot1x
Switch(config-if)#authentication periodic
Switch(config-if)#authentication timer reauthenticate server
Switch(config-if)#mab
Switch(config-if)#dot1x pae authenticator
```

A. The configuration supports multidomain authentication, which allows one MAC address on the voice VLAN and one on the data VLAN.
B. Traffic will not flow for either the phone or the host computer until one device completes the 802.1X authentication process.
C. Registration and DHCP traffic will flow on either the data or voice VLAN before authentication.
D. The port will only require the 802.1X supplicant to authenticate one time.
E. MAC Authentication Bypass will be attempted only after 802.1X authentication times out.
F. Non-802.1X devices are supported on this port by setting up the host for MAC address authentication in the endpoint database.

Answer: ACF

QUESTION 6
Refer to the exhibit. What can be determined from the output of this show command?

```
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
```

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

QUESTION 7

You are troubleshooting a problem for which end users are reporting connectivity issues. Your network has been configured with Layer 2 protection controls. You have determined that the DHCP snooping database is correct and that proper static addressing maps have been configured. Which of these should be your next step in troubleshooting this problem?

A. Generate a proxy ARP request and verify that the DHCP database has been updated as expected.
B. Temporarily disable DHCP snooping and test connectivity again.
C. Clear the ARP tables and have end users release and renew their DHCP-learned addressing.
D. Use a protocol analyzer to determine if there are malformed DHCP or ARP packets.

Answer: D

QUESTION 8
You are finding that the 802.1X-configured ports are going into the error-disable state. Which command will show you the reason why the port is in the error-disable state, and which command will automatically be re-enabled after a specific amount of time? (Choose two.)

A. show error-disable status
B. show error-disable recovery
C. show error-disable flap-status
D. error-disable recovery cause security-violation
E. error-disable recovery cause dot1x
F. error-disable recovery cause l2ptguard

Answer: BD

QUESTION 9
Your company has a requirement that if security is compromised on phase 1 of a Diffie-Hellman key exchange that a secondary option will strengthen the security on the IPsec tunnel. What should you implement to ensure a higher degree of key material security?

A. Diffie-Hellman Phase II ESP
B. PFS Group 5
C. Transform-set SHA-256
D. XAUTH with AAA authentication
E. Diffie-Hellman Group 5 Phase I

Answer: B

QUESTION 10
Refer to the exhibit. What can be determined about the IPS category configuration shown?

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

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

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