

**Exam : Cisco 642-502**

**Title : Cisco® Securing Networks  
with Cisco Routers and  
Switches Exam(SNRS)**

**Version : Demo**

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1. Which Cisco Catalyst IOS command can be used to mitigate a CAM table overflow attack?

- A. switch(config-if)# port-security maximum 1
- B. switch(config)# switchport port-security
- C. switch(config-if)# port-security
- D. switch(config-if)# switchport port-security maximum 1
- E. switch(config-if)# switchport access
- F. switch(config-if)# access maximum 1

**Answer:D**

2. Which Cisco Catalyst IOS command is used to mitigate a MAC spoofing attack?

- A. switch(config-if)# port-security mac-address 0000.ffff.aaaa
- B. switch(config)# switchport port-security mac-address 0000.ffff.aaaa
- C. switch(config-if)# switchport port-security mac-address 0000.ffff.aaaa
- D. switch(config)# port-security mac-address 0000.ffff.aaaa
- E. switch(config-if)# mac-address 0000.ffff.aaaa
- F. switch(config)# security mac-address 0000.ffff.aaaa

**Answer:C**

3. In a Cisco Identity-Based Networking Services (IBNS) implementation, the endpoint that is seeking network access is known as what?

- A. host
- B. authenticator
- C. PC
- D. authentication server
- E. client
- F. supplicant

**Answer:F**

4. In an 802.1x implementation, the supplicant directly connects to, and obtains network access permission through, which device?

- A. host
- B. authenticator
- C. PC
- D. authentication server
- E. client
- F. supplicant

**Answer:B**

5. In an 802.1x implementation, the authenticator acts as a gateway to which device?

- A. host
- B. authenticator
- C. PC
- D. authentication server
- E. client
- F. supplicant

**Answer:D**

6. Which three keywords are used with the dot1x port-control command? (Choose three.)

- A. enable
- B. force-authorized
- C. force-unauthorized
- D. authorized
- E. unauthorized
- F. auto

**Answer:BCF**

7. Which two are typical Layer 2 attacks? (Choose two.)

- A. MAC spoofing
- B. CAM table overflow
- C. route poisoning

- D. DHCP Starvation
- E. ARP Starvation
- F. spam

**Answer:AB**

8. Which three are typical Layer 2 attack mitigation techniques? (Choose three.)

- A. switch security
- B. port security
- C. ARP snooping
- D. DHCP snooping
- E. port snooping
- F. 802.1x authentication

**Answer:BDF**

9. What are three main components of the Cisco IOS Firewall feature set? (Choose three.)

- A. Context-based Access Control
- B. port security
- C. authentication proxy
- D. authentication, authorization, and accounting
- E. Intrusion Prevention System
- F. neighbor router authentication

**Answer:ACE**

10. CBAC intelligently filters TCP and UDP packets based on which protocol-session information?

- A. network layer
- B. transport layer
- C. data-link
- D. application layer
- E. presentation layer
- F. session layer

**Answer:D**

11. The Cisco Identity-Based Networking Services (IBNS) solution is based on which two standard implementations? (Choose two.)

- A. TACACS+
- B. RADIUS
- C. 802.11
- D. 802.1x
- E. 802.1q
- F. IPSec

**Answer:BD**

12. Which command is required to specify the authorization protocol for authentication proxy?

- A. auth-proxy group tacacs+
- B. aaa auth-proxy default group tacacs+
- C. authorization auth-proxy default group tacacs+
- D. aaa authorization auth-proxy default group tacacs+
- E. aaa authorization auth-proxy group tacacs+
- F. aaa authorization auth-proxy default group

**Answer:D**

13. Choose the two commands that are used to enable the router's HTTP server for AAA. (Choose two.)

- A. http server
- B. ip http server
- C. enable ip http server
- D. http authentication aaa
- E. http server authentication aaa
- F. ip http authentication aaa

**Answer:BF**

14. Refer to the output of a `sh ip auth-proxy cache` command below. Which port is being used by the client?

```
R2#sh ip auth-proxy cache
```

```
Authentication Proxy Cache
```

```
Client Name aauser, Client IP 10.0.2.12, Port 2636, timeout 5, Time Remaining 3, state ESTAB
```

- A. 1645
- B. 1646
- C. 1812
- D. 2636
- E. 2640
- F. 8080

**Answer:D**

15. The SDF uses which type of file format, with a definition of each signature along with relevant configurable actions?

- A. ASCII
- B. HTML
- C. JPEG
- D. Word
- E. text
- F. XML

**Answer:F**

16. What is the purpose of the `ip ips sdf builtin` command?

- A. to load IPS on a router using the built-in signatures
- B. to load IP on a router using the attack-drop signatures
- C. to unload IPS built-in signatures
- D. to delete the IPS built-in signatures
- E. to load IPS on a router using the built-in micro-engine
- F. to disable IPS on a router using the built-in micro-engine

**Answer:A**

17. Refer to the exhibit. Given the output of the show ip ips configuration command, how many signatures are active?

```
R2#sh ip ips conf
Configured SDF Locations:
flash:my-signatures.sdf
Builtin signatures are enabled but not loaded
Last successful SDF load time: 03:55:17 UTC Mar 2 2002
IDS fail closed is enabled
Fastpath ips is enabled
Quick run mode is enabled
Event notification through syslog is enabled
Event notification through Net Director is disabled
Event notification through SDEE is disabled
Total Active Signatures: 183
Total Inactive Signatures: 0
Signature 1107:0 disable
PostOffice:HostID:0 OrgID:0 Msg dropped:0
: Curr Event Buf Size:0 Configured:100
Post Office is not enabled - No connections are active
IDS Rule Configuration
IPS name SECURIPS
Interface Configuration
Interface FastEthernet0/1
Inbound IPS rule is SECURIPS
Outgoing IPS rule is not set
```

- A. 0
- B. 50
- C. 83
- D. 100
- E. 183
- F. 1107

**Answer:**E

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