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Exam : 642-618

Title : Deploying Cisco ASA Firewall Solutions (FIREWALL v2.0)

Vendors : Cisco

Version : DEMO

1. On the Cisco ASA, tcp-map can be applied to a traffic class using which MPF CLI configuration command?

- A. inspect
- B. sysopt connection
- C. tcp-options
- D. parameters
- E. set connection advanced-options

Answer: E

2. By default, which traffic can pass through a Cisco ASA that is operating in transparent mode without explicitly allowing it using an ACL.?

- A. ARP
- B. BPDU
- C. CDP
- D. OSPF multicasts
- E. DHCP

Answer: A

3. When enabling a Cisco ASA to send syslog messages to a syslog server, which syslog level will produce the most messages?

- A. notifications
- B. informational
- C. alerts
- D. emergencies
- E. errors
- F. debugging

Answer: F

4. Refer to the exhibit.

```
ASA-5510# show conn
54764 in use, 54764 most used
TCP outside 172.16.1.118:26093 inside 10.1.1.50:80, idle 0:00:23, bytes 0, flags aB
TCP outside 172.16.5.19:23598 inside 10.1.1.50:80, idle 0:00:13, bytes 0, flags aB
TCP outside 192.168.1.202:32729 inside 10.1.1.50:80, idle 0:00:25, bytes 0, flags aB
TCP outside 192.168.2.20:56481 inside 10.1.1.50:80, idle 0:00:29, bytes 0, flags aB
TCP outside 192.168.3.205:18073 inside 10.1.1.50:80, idle 0:00:02, bytes 0, flags aB
TCP outside 172.16.2.63:51503 inside 10.1.1.50:80, idle 0:00:03, bytes 0, flags aB
TCP outside 172.16.18.60:47733 inside 10.1.1.50:80, idle 0:00:27, bytes 0, flags aB
TCP outside 192.168.1.202:20773 inside 10.1.1.50:80, idle 0:00:02, bytes 0, flags aB
TCP outside 192.168.4.192:23112 inside 10.1.1.50:80, idle 0:00:06, bytes 0, flags aB
TCP outside 172.16.25.60:47733 inside 10.1.1.50:80, idle 0:00:27, bytes 0, flags aB
!<output omitted>
```

Flags: A - awaiting inside ACK to SYN, a - awaiting outside ACK to SYN,
 B - initial SYN from outside, b - TCP state-bypass or nailed, C - CTQBE media,
 D - DNS, d - dump, E - outside back connection, F - outside FIN, f - inside FIN,
 G - group, g - MGCP, H - H.323, h - H.225.0, I - inbound data,
 i - incomplete, J - GTP, j - GTP data, K - GTP t3-response
 k - Skinny media, M - SMTP data, m - SIP media, n - GUP
 O - outbound data, P - inside back connection, p - Phone-proxy TFTP connection,
 q - SQL*Net data, R - outside acknowledged FIN,
 R - UDP SUNRPC, r - inside acknowledged FIN, S - awaiting inside SYN,
 s - awaiting outside SYN, T - SIP, t - SIP transient, U - up,
 V - VPN orphan, W - WAAS,
 X - inspected by service module

What can be determined about the connection status?

- A. The output is showing normal activity to the inside 10.1.1.50 web server.
- B. Many HTTP connections to the 10.1.1.50 web server have successfully completed the three-way TCP handshake.
- C. Many embryonic connections are made from random sources to the 10.1.1.50 web server.
- D. The 10.1.1.50 host is triggering SYN flood attacks against random hosts on the outside.
- E. The 10.1.1.50 web server is terminating all the incoming HTTP connections.

Answer: C

5. What mechanism is used on the Cisco ASA to map IP addresses to domain names that are contained in the botnet traffic filter dynamic database or local blacklist?

- A. HTTP inspection
- B. DNS inspection and snooping
- C. WebACL
- D. dynamic botnet database fetches (updates)
- E. static blacklist
- F. static whitelist

Answer: B

6. Refer to the exhibit.

```

class-map http
  match port tcp eq 21
class-map ftp
  match port tcp eq 21
policy-map test
  class http
    inspect http
  class ftp
    inspect ftp

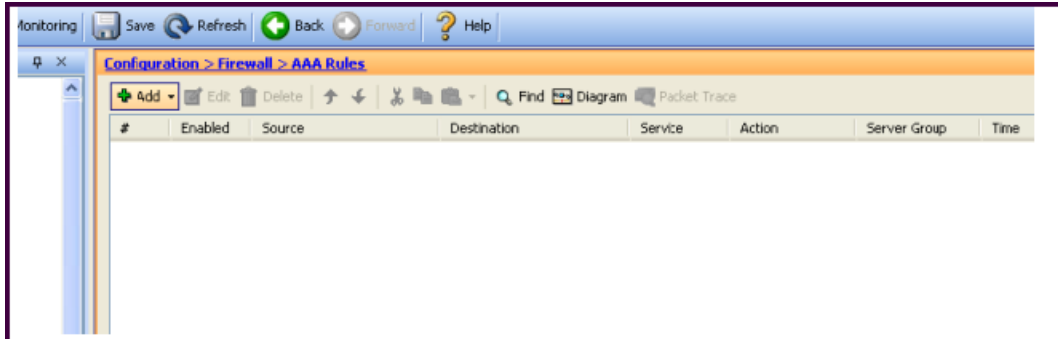
```

Which statement about the policy map named test is true?

- A. Only HTTP inspection will be applied to the TCP port 21 traffic.
- B. Only FTP inspection will be applied to the TCP port 21 traffic.
- C. both HTTP and FTP inspections will be applied to the TCP port 21 traffic.
- D. No inspection will be applied to the TCP port 21 traffic, because the http class map configuration conflicts with the ftp class map.
- E. All FTP traffic will be denied, because the FTP traffic will fail the HTTP inspection.

Answer: B

7.Refer to the exhibit.



Which Cisco ASA feature can be configured using this Cisco ASDM screen?

- A. Cisco ASA command authorization using TACACS+
- B. AAA accounting to track serial, ssh, and telnet connections to the Cisco ASA
- C. Exec Shell access authorization using AAA
- D. cut-thru proxy
- E. AAA authentication policy for Cisco ASDM access

Answer: D

8.Refer to the exhibit.

```
failover
failover lan unit primary
failover lan interface MYFAILOVER GigabitEthernet0/2
failover interface ip MYFAILOVER 172.16.5.1 255.255.255.0 standby 172.16.5.10
failover link MYFAILOVER GigabitEthernet0/2
failover key cisco123
failover group 1
primary
preempt
failover group 2
secondary
preempt
```

Which command enables the stateful failover option?

- A. failover link MYFAILOVER GigabitEthernet0/2
- B. failover lan interface MYFAILOVER GigabitEthernet0/2
- C. failover interface ip MYFAILOVER 172.16.5.1 255.255.255.0 standby 172.16.5.10
- D. preempt
- E. failover group 1 primary
- F. failover lan unit primary

Answer: A

9. In which type of environment is the Cisco ASA MPF set connection advanced-options tcp-statebypass option the most useful?

- A. SIP proxy
- B. WCCP
- C. BGP peering through the Cisco ASA
- D. asymmetric traffic flow
- E. transparent firewall

Answer: D

10. Refer to the exhibit.

```
class-map type inspect ftp match-all ftp-cmd
  match request-command put
policy-map type inspect ftp ftp-insp
  class ftp-cmd
  reset
access-list ftp-acl extended permit tcp any any eq ftp
class-map ftp-cm
  match access-list ftp-acl
policy-map ftp-pm
  class ftp-cm
  inspect ftp strict ftp-insp
service-policy ftp-pm interface outside
```

Which statement about the MPF configuration is true?

- A. Any non-RFC complaint FTP traffic will go through additional deep FTP packet inspections.
- B. FTP traffic must conform to the FTP RFC, and the FTP connection will be dropped if the PUT command is used.
- C. Deep FTP packet inspections will be performed on all TCP inbound and outbound traffic on the outside interface.
- D. The ftp-pm policy-map type should be type inspect.
- E. Due to a configuration error, all FTP connections through the outside interface will not be permitted.

Answer: B

11.Refer to the exhibit.

```

ASA# show local-host 10.1.1.99
Interface inside: 250 active, 250 maximum active, 0 denied
local host: <10.1.1.99>,
TCP connection count/limit = 146608/unlimited
TCP embryonic count = 146606
UDP connection count/limit = 0/unlimited
Xlate(s):
Global 209.165.201.21 Local 10.1.1.99
Conn(s):
TCP out 10.101.32.157:135 in 10.1.1.99:34580 idle 0:01:43 Bytes 0 flags saA
TCP out 10.103.108.191:135 in 10.1.1.99:8688 idle 0:01:43 Bytes 0 flags saA
TCP out 10.100.205.160:135 in 10.1.1.99:7774 idle 0:01:43 Bytes 0 flags saA
TCP out 10.101.182.19:135 in 10.1.1.99:39193 idle 0:01:43 Bytes 0 flags saA
TCP out 10.102.218.45:135 in 10.1.1.99:16462 idle 0:01:43 Bytes 0 flags saA
TCP out 10.100.21.120:135 in 10.1.1.99:30322 idle 0:01:43 Bytes 0 flags saA
TCP out 10.101.25.195:135 in 10.1.1.99:41116 idle 0:01:43 Bytes 0 flags saA
TCP out 10.103.17.219:135 in 10.1.1.99:59163 idle 0:01:43 Bytes 0 flags saA
TCP out 10.102.201.141:135 in 10.1.1.99:2978 idle 0:01:43 Bytes 0 flags saA
! <output omitted>

```

What is a reasonable conclusion?

- A. The maximum number of TCP connections that the 10.1.1.99 host can establish will be 146608.
- B. All the connections from the 10.1.1.99 have completed the TCP three-way handshake.
- C. The 10.1.1.99 hosts are generating a vast number of outgoing connections, probably due to a virus.
- D. The 10.1.1.99 host on the inside is under a SYN flood attack.
- E. The 10.1.1.99 host operations on the inside look normal.

Answer: C

12. By default, how does the Cisco ASA authenticate itself to the Cisco ASDM users?

- A. The administrator validates the Cisco ASA by examining the factory built-in identity certificate thumbprint of the Cisco ASA.
- B. The Cisco ASA automatically creates and uses a persistent self-signed X.509 certificate to authenticate itself to the administrator.
- C. The Cisco ASA automatically creates a self-signed X.509 certificate on each reboot to authenticate itself to the administrator.
- D. The Cisco ASA and the administrator use a mutual password to authenticate each other.
- E. The Cisco ASA authenticates itself to the administrator using a one-time password.

Answer: C

13. When will a Cisco ASA that is operating in transparent firewall mode perform a routing table lookup instead of a MAC address table lookup to determine the outgoing interface of a packet?

- A. if multiple context mode is configured
- B. if the destination MAC address is unknown
- C. if the destination is more than a hop away from the Cisco ASA
- D. if NAT is configured
- E. if dynamic ARP inspection is configured

Answer: D

14. Which flag shown in the output of the show conn command is used to indicate that an initial SYN packet is from the outside (lower security-level interface)?

```
ASA5520# show conn
29 in use, 63 most used
TCP out 10.10.49.10:23 in 10.1.1.15:1026 idle 0:00:22 bytes 1774 flags UIO
<output omitted>
```

- A. B
- B. D
- C. b
- D. A
- E. a
- F. i
- G. I
- H. O

Answer: A

15. Which statement about the default ACL logging behavior of the Cisco ASA is true?

- A. The Cisco ASA generates system message 106023 for each denied packet when a deny ACE is configured.
- B. The Cisco ASA generates system message 106023 for each packet that matched an ACE.
- C. The Cisco ASA generates system message 106100 only for the first packet that matched an ACE.
- D. The Cisco ASA generates system message 106100 for each packet that matched an ACE.
- E. No ACL logging is enabled by default.

Answer: A

16. Which Cisco ASA feature enables the ASA to do these two things? 1) Act as a proxy for the server and generate a SYN-ACK response to the client SYN request. 2) When the Cisco ASA receives an ACK back from the client, the Cisco ASA authenticates the client and allows the connection to the server.

- A. TCP normalizer
- B. TCP state bypass
- C. TCP intercept
- D. basic threat detection
- E. advanced threat detection
- F. botnet traffic filter

Answer: C

17. Which option is not supported when the Cisco ASA is operating in transparent mode and also is using multiple security contexts?

- A. NAT
- B. shared interface
- C. security context resource management

D. Layer 7 inspections

E. failover

Answer: B

18. Refer to the exhibit.

Context Name	Class	Interfaces	URL
admin	default	GigabitEthernet0/0, GigabitEthernet0/1	disk0:/admin.cfg
*CTX	default	GigabitEthernet0/0, GigabitEthernet0/2	disk0:/CTX.cfg

Total active Security Contexts: 2

What does the * next to the CTX security context indicate?

A. The CTX context is the active context on the Cisco ASA.

B. The CTX context is the standby context on the Cisco ASA.

C. The CTX context contains the system configurations.

D. The CTX context has the admin role.

Answer: D

19. Which Cisco ASA feature is implemented by the ip verify reverse-path interface interface_name command?

A. uRPF

B. TCP intercept

C. botnet traffic filter

D. scanning threat detection

E. IPS (IP audit)

Answer: A

20. In one custom dynamic application, the inside client connects to an outside server using TCP port 4444 and negotiates return client traffic in the port range of 5000 to 5500. The server then starts streaming UDP data to the client on the negotiated port in the specified range. Which Cisco ASA feature or command supports this custom dynamic application?

A. TCP normalizer

B. TCP intercept

C. ip verify command

D. established command

E. tcp-map and tcp-options commands

F. set connection advanced-options command

Answer: D