



Exam : 642-964

Title : Cisco Data Center Networking Infrastructure ☐ ☐

Solutions Support

Ver : 11-12-07

QUESTION 1

What will be upgraded as a result of this command?

upgrade ftp://ftpuser@10.1.2.3//upgrade/IPS-K9-r-1.1-a-5.1-1.pkg

- A. recovery partition
- B. application partition
- C. both application and recovery partitions immediately
- D. both application and recovery partitions at the next scheduled automatic IDSM update

Answer: A

QUESTION 2

On a Cisco Catalyst 6500 Series Switch, how many physical links can be aggregated into an EtherChannel group?

- A. 4
- B. 8
- C. 16
- D. 32

Answer: B

QUESTION 3

How would you configure a NAM to monitor and report the most heavily viewed sections of a website?

- A. Create a separate domain name or virtual server IP address for each section of the site. Add each domain name or IP address to the NAM application protocol directory.
- B. Enable regular-expression pattern matching. Define application protocol filters based on regular expressions that match the desired URLs.
- C. Enable URL monitoring. Define each desired URL as an application in the protocol directory.
- D. Use SPAN or VACLs to capture upper-layer protocol data from the web servers. Use a third- party application to parse the stored capture files.

Answer: C

QUESTION 4

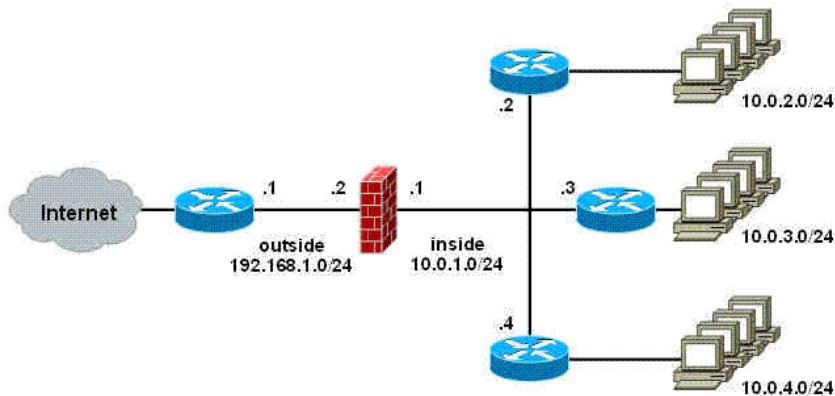
How can you configure the NAM to view a list of all switches that are sending NDE packets?

- A. Enter the command sh data-source nde.
- B. Configure Cisco Discovery Protocol to detect all switches on the network.
- C. Launch NetFlow Listening Mode from the Cisco Traffic Analyzer application.
- D. The NAM will automatically detect NDE broadcasts and add each switch to the NetFlow device table.

Answer: C

QUESTION 5

Refer to the exhibit.



Which FWSM command allows routing of TCP traffic from the Internet to network 100.3.0/24?

- A. access-list inside permit tcp 192.16.1.0 255.255.255.0 10.0.3.0 255.255.255.0
- B. route inside 10.0.3.0 255.255.255.0 10.0.1.3
- C. route outside 10.0.3.0 255.255.255.0 10.0.1.3
- D. route inside 0 0 10.0.1.3

Answer: B

QUESTION 6

Which command must be issued to activate the FWSM firewall context?

- A. allocate-vlan
- B. config-url
- C. limit-resource
- D. map-interface

Answer: B

QUESTION 7

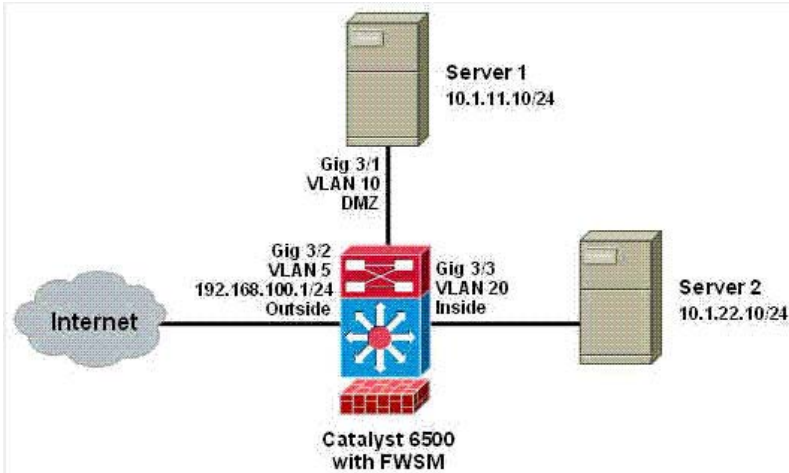
The IDSM management-interface IP address can be configured from which prompt?

- A. IDSM(config)#
- B. IDSM(config-hos-net)#
- C. IDSM(config-mgmt)#
- D. IDSM(config-if)#

Answer: B

QUESTION 8

Refer to the exhibit.



Which command would you use on the FWSM to provide a default route from Servers 1 and 2 to the Internet?

- A. route inside 00 192.168.100.1
- B. route inside 10.1.0.0 255.255.0.0 192.168.1.1
- C. route outside 0 0 192.168.100.1
- D. route outside 10.1 .0.0 255.255.0.0 192.168.1.1

Answer: C

QUESTION 9

Which statement is correct regarding Layer 3 EtherChannels?

- A. They are STP-aware.
- B. They cannot be automatically negotiated.
- C. Multiple EtherChannels are used between a pair of switches.
- D. Multiple EtherChannels between two switches create an STP loop.

Answer: C

QUESTION 10

What is the effect of executing the command intrusion-detection module 5 management-port access-vlan 10 on an IDSM?

- A. allows the IDSM to be managed by devices in VLAN 10
- B. configures the IDSM to monitor traffic from VLAN 10 in in-line mode
- C. allows the IDSM to perform blocking actions on devices in VLAN 10
- D. configures the IDSM to monitor traffic from VLAN 10 in promiscuous mode

Answer: A

QUESTION 11

Which three statements are requirements for configuring a web browser to work with the NAM Cisco Traffic Analyzer? (Choose three.)

- A. Enable Java and JavaScript.
- B. Set the browser cache to at least 500 MB.
- C. Configure the browser to accept all cookies.
- D. Install the Cisco Traffic Analyzer application.
- E. Set the browser cache to clear itself automatically when the user exits the browser.
- F. Configure the browser to check for newer versions of pages every time it loads a page.

Answer: A, C, E

QUESTION 12

Which step will configure high availability on two IDSMs in in-line mode?

- A. Configure an EtherChannel between the two IDSMs.
- B. Enable hardware bypass on the primary IDS.
- C. Enable software bypass on the backup IDS.
- D. Install the IDSs in separate chassis.

Answer: C

QUESTION 13

Your customer uses these file-oriented network applications:

FTP

Web-based file repositories

Windows and Linux file sharing

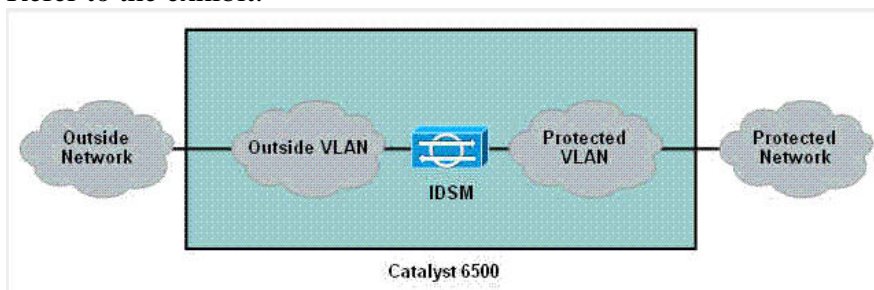
How can you use the NAM to create a report showing total network traffic for these applications?

- A. Define a VACL that forwards traffic for all of the applications.
- B. Define an application group that contains all of the interfaces for the application servers.
- C. This cannot be accomplished because the NAM cannot monitor upper-layer protocol data.
- D. Add each application to the Cisco Traffic Analyzer protocol directory and create an application group with all of the applications.

Answer: D

QUESTION 14

Refer to the exhibit.



Given this network design, what can you use to configure the IDSM to capture traffic?

- A. SPAN
- B. VACLs
- C. SPAN or VACLs
- D. neither SPAN nor VACLs

Answer: D

QUESTION 15

Which configuration is needed for the NAM to display per-protocol statistics for MPLS-tagged packets?

- A. Configure SPAN for WAN data collection.
- B. No configuration is needed; this option is operational on power-up.
- C. The NAM cannot provide per-protocol statistics for MPLS-tagged packets.
- D. Configure the NAM to the "Parse MPLS tagged packet" option in Cisco Traffic Analyzer.

Answer: D

QUESTION 16

When is the current-config file updated on the IDSM?

- A. after you exit configuration mode
- B. after each configuration command is entered
- C. when you execute the copy run start command
- D. when you execute the save current-config command

Answer: A

QUESTION 17

In a Cisco Catalyst 6500 Series Switch, in which slot or slots should you install the NAM?

- A. slots 1 to 4
- B. slot 5 or 6
- C. any slot except a supervisor module slot
- D. the slots that are closest to the supervisor modules

Answer: C

QUESTION 18

How can you configure the NAM to create a report that shows the percentage of traffic that is assigned to each DSCP service level?

- A. The NAM can only capture DSCP data for voice traffic.
- B. Use NetFlow on the NAM to capture DSCP-level protocol statistics.
- C. Enable DiffServ monitoring using a user profile containing DiffServ aggregation groups.
- D. Use a third-party application to parse upper-layer protocol data captured from web servers.

Answer: C

QUESTION 19

A customer has installed an FWSM in the data center. Which feature must be configured to enable FTP to work?

- A. dynamic NAT
- B. dynamic PAT
- C. access lists
- D. transparent mode
- E. deep packet inspection

Answer: E

QUESTION 20

What can you do to obtain faster RPR+ failover?

- A. Use RPR instead of RPR+.
- B. Disable core dump on both supervisors.
- C. Decrease the supervisor synchronization interval.
- D. Minimize the number of entries in the Layer 3 routing tables.

Answer: B

QUESTION 21

Which IDSM capture method has the ability to impact the performance of VoIP applications?

- A. in-line
- B. promiscuous
- C. SPAN
- D. VACLs

Answer: A

QUESTION 22

How many IDSMs can monitor the same VLAN?

- A. 2
- B. 4
- C. 8
- D. 32

Answer: C

QUESTION 23

What will be the result of this command?

bgp graceful-restart

- A. NSF is enabled for BGP.
- B. SSO is enabled for BGP.
- C. RPR is enabled for BGP.
- D. RPR+ is enabled for BGP.

Answer: A

QUESTION 24

A customer network is configured as follows:

NetFlow is on for all core switch interfaces.

The NAM receives NDE packets from each switch.

Reports show aggregate data for all interfaces.

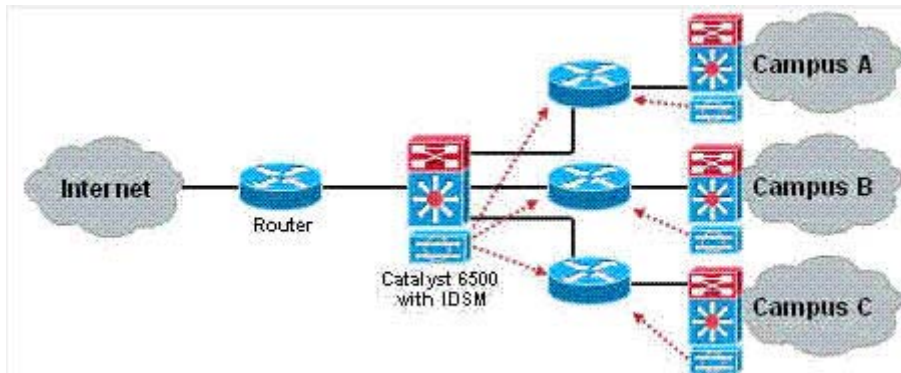
How would you view data for specific interfaces on a given switch?

- A. Enable NetFlow only on the interfaces that you want to view.
- B. Create ACLs on the NAM data ports to filter the NDE traffic.
- C. Create a custom NDE data source in Cisco Traffic Analyzer and specify the interfaces that you want to view.
- D. Limit the NDE data capture by specifying the VLANs that apply to the interfaces that you want to view.

Answer: C

QUESTION 25

Refer to the exhibit.



IDSM blocking is indicated by the dotted arrows. What is the correct method for implementing this blocking configuration?

- A. This configuration cannot be implemented.
- B. Create a blocking group for each router, and add the appropriate IDSMs to the blocking group.
- C. Using IDM, add the IP addresses of the appropriate routers to the Blocking Devices table of

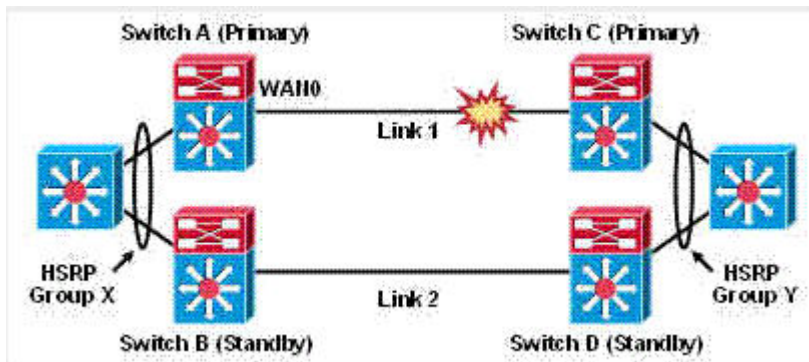
each IDS sensor.

D. Configure the IDS sensor that is nearest to the Internet as a master blocking sensor, and configure the other IDS sensors as block forwarding sensors.

Answer: D

QUESTION 26

Refer to the exhibit.



HSRP interface tracking is disabled on Switch A interface WAN0. Link 1 fails. Which statement is correct?

- A. Traffic that is routed through HSRP Group X will not fail over to Switch B when Link 1 fails.
- B. Traffic that is routed through HSRP Group Y will not fail over to Switch D when Link 1 fails.
- C. Traffic that is routed through HSRP Group Y will not fail back to Switch C when Link 1 comes back online.
- D. Traffic that is routed through HSRP Group X will not fail back to Switch A when Link 1 comes back online.

Answer: A

QUESTION 27

Which signature action can be configured only on an IDS sensor in IPS mode?

- A. log packets containing the attacker and victim address pair
- B. modify data in the packet
- C. send a request to block a connection
- D. terminate the TCP flow

Answer: B

QUESTION 28

A switch is running RSTP and is connected to a switch running 802.1D. What happens when a spanning-tree reconvergence is triggered?

- A. The switches cannot converge.
- B. Both switches revert to STP mode.
- C. The switch running RSTP reverts to 802.1D mode.

D. The switch running 802.1D reverts to RSTP mode.

Answer: C

QUESTION 29

What is required when configuring NTP on the IDSM?

- A. Configure an MD5 key.
- B. Add a service account for the NTP service.
- C. Configure the IDSM host access list to allow access to the NTP server.
- D. Associate the VLAN containing the NTP server with the IDSM management port.

Answer: A

QUESTION 30

How can a customer with multiple FWSM contexts limit the number of connections that are permitted in each context?

- A. Map the context to a class, and apply resource limits to the class.
- B. Map the context to a VLAN, and apply resource limits to the VLAN.
- C. Map the context to a class, and apply resource limits to the context.
- D. You cannot limit the number of connections that are permitted in a context.

Answer: A

QUESTION 31

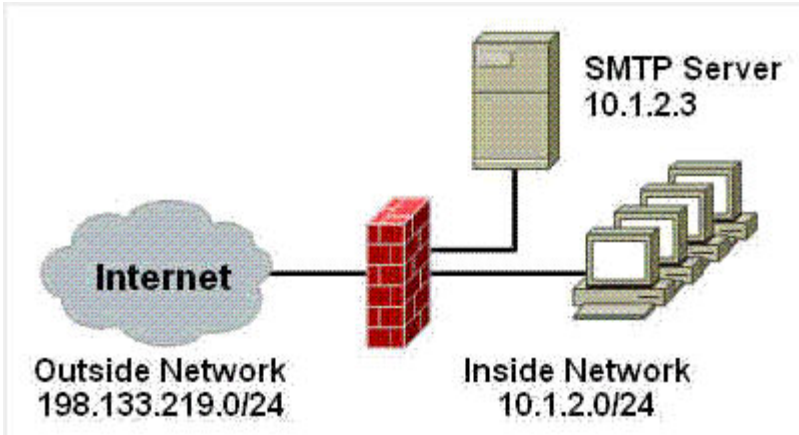
What must you do to enable HTTPS as the access protocol on the NAM?

- A. Enable the HTTP server, then enable the SSL service.
- B. Install a strong crypto patch on the NAM, then enable the HTTPS server.
- C. Ensure that 128-bit cryptography is enabled, then enable the HTTPS server.
- D. Enable the HTTP server, then issue the hip secure server enable command.

Answer: B

QUESTION 32

Refer to the exhibit.



Which command turns on FWSM traffic authentication from the Internet to an inside-network SMTP server at address 10.1.2.3?

- A. access-list allow-in extended permit smtp any host 10.1.2.3
- B. access-list allow-in extended permit tcp any host 10.1.2.3 eq smtp
- C. aaa authentication allow-in extended perm tcp any host 10.1.2.3 eq smtp
- D. aaa authentication match smtp any host 10.1.2.3 server name corpaaaserver

Answer: B

QUESTION 33

A customer site is set up as follows:

Aggregation-layer Cisco Catalyst 6500 Series Switches

Redundant supervisors

The customer is deploying a new version of Cisco IOS.

Which supervisor redundancy mode or modes will allow an older version of Cisco IOS to be maintained on a standby supervisor?

- A. RPR only
- B. SSO only
- C. RPR and SSO
- D. RPR and RPR+

Answer: A

QUESTION 34

Which negotiation is initiated by setting an EtherChannel mode to auto on an interface?

- A. to create an EtherChannel
- B. to create an EtherChannel only if an LACP is received
- C. to create an EtherChannel only if a PAgP packet is received
- D. to place the interface in an EtherChannel if the connected interface is also in auto mode

Answer: C

QUESTION 35

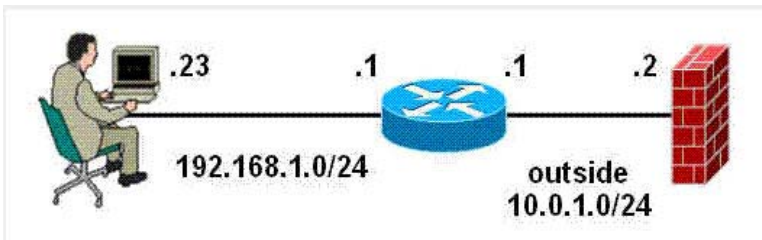
Which three are valid SPAN sources for the NAM? (Choose three.)

- A. a port
- B. a VLAN
- C. a line card
- D. a port group
- E. an MPLS tunnel
- F. an EtherChannel

Answer: A, B, F

QUESTION 36

Refer to the exhibit.



Which command enables Telnet management of the FWSM from the remote management workstation at 192.168.1.23?

- A. telnet 10.0.1.2 outside
- B. telnet 10.0.1.0 255.255.255.0 outside
- C. telnet 192.168.1.0 255.255.255.0
- D. telnet 192.168.1.23 255.255.255.255 outside

Answer: D

QUESTION 37

Which command configures data capture from VLAN 10 on an EtherChannel aggregating IDSMs in slots 1 and 2?

- A. intrusion-detection data-port 1 channel-group 1 vlan 10
- B. intrusion-detection module 1-2 data-port 1 channel-group 1 vlan 10
- C. intrusion-detection port-channel 1 capture allowed-vlan 10
- D. port-channel allowed-Vlan 10

Answer: C

QUESTION 38

Which feature must you use to allow the FWSM to bridge spanning-tree BPDU5?

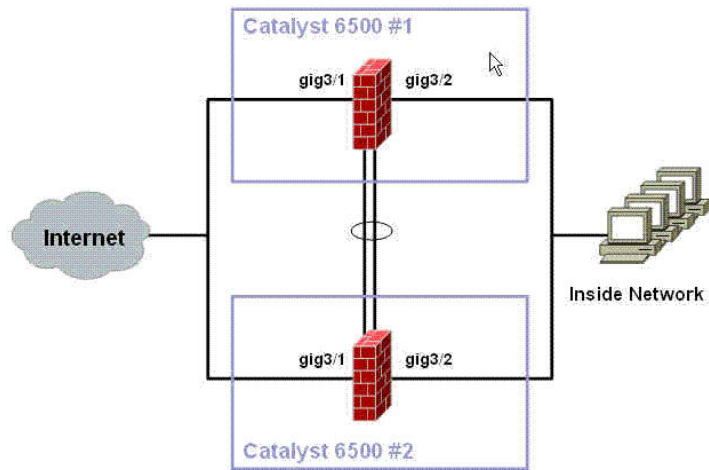
- A. BPDU guard
- B. extended ACLs

- C. ethertype ACLs
- D. dynamic NAT and PAT

Answer: C

QUESTION 39

Refer to the exhibit.



If interface gig3/2 fails on Catalyst 6500 #1. how will failover proceed?

- A. #1 FWSM fails over to #2 FWSM in all cases.
- B. #1 FWSM fails over to #2 FWSM only if stateful failover is enabled.
- C. No FWSMs fail over; traffic that is destined for interface gig3/2 on #1 will be routed through #2.
- D. No FWSMs fail over; traffic that is destined for any interface on #1 will be routed through #2.

Answer: C

QUESTION 40

When configuring VLANs on the FWSM, how are VLANs associated with contexts?

- A. associated with the physical FWSM
- B. directly associated with a single context
- C. directly associated with multiple contexts
- D. associated with VLAN groups that are associated with a single context
- E. associated with VLAN groups that are associated with multiple contexts

Answer: C

QUESTION 41

How do you configure an FWSM to use a backup RADIUS server?

- A. Create a virtual IP address on the MSFC using HSRP.
- B. Create an access list that allows traffic to the backup RADIUS server.
- C. Create a second aaa-server entry and configure that server as standby.
- D. Create an AAA server group and associate both RADIUS servers with the group.

Answer: D

QUESTION 42

How do you configure the management port VLAN on the NAM on a Cisco Catalyst 6500 Series Switch running Cisco Catalyst operating system?

- A. interface vlan [vlan_id] analysis module [mod_num] management-port
- B. analysis module [mod_num] management-port access-vlan [vlan_id]
- C. The port cannot be configured.
- D. No configuration is necessary.

Answer: D

QUESTION 43

Which event action can be configured for a signature on the IDSM?

- A. log all traffic
- B. capture packets to a local file
- C. capture packets to a local file or remote analyzer
- D. log traffic between attacker and victim IP addresses

Answer: D

QUESTION 44

A gateway redundancy protocol is running across the firewall. Which mode must be configured on the FWSM?

- A. gateway mode
- B. multiple context mode
- C. routed mode
- D. transparent mode

Answer: D

QUESTION 45

A customer firewall is designed as follows:

Inside network

VLAN 20

10.50.20.0/24

Outside network:

VLAN 50

10.50.50.0/24

Which mode must you configure on the FWSM to enable this design?

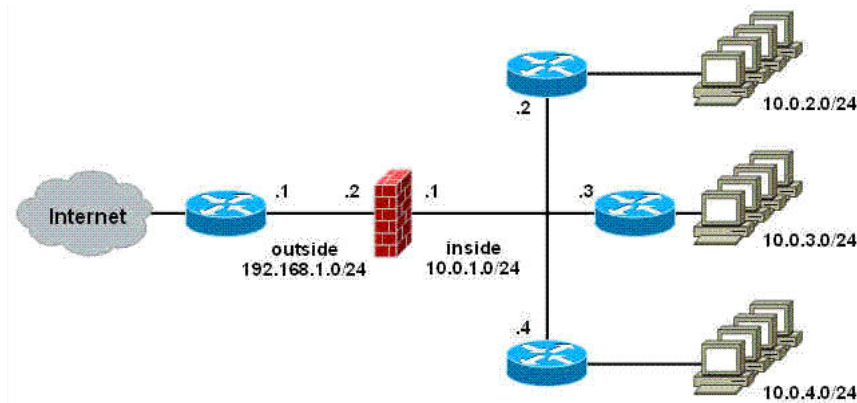
- A. gatewaymode

- B. multiple context mode
- C. routed mode
- D. transparent mode

Answer: C

QUESTION 46

Refer to the exhibit.



Which FWSM command allows routing of TCP traffic from network 10.0.3.0/24 to the Internet?

- A. access-list inside permit tcp any 192.168.1.1
- B. route inside 10.0.3.0 255.255.255.0 192.168.1.1
- C. route outside 10.0.3.0 255.255.255.0 192.168.1.2
- D. route outside 00 192.168.1.1

Answer: D

QUESTION 47

This command is issued on an IDSM:

access-list 10.0.1.0/24

What will be the result?

- A. is not a valid command
- B. captures traffic from network 10.0.1.0/24
- C. eliminates traffic capture for network 10.0.1.0/24
- D. allows devices on network 10.0.1.0/24 to manage the IDSM

Answer: D

QUESTION 48

An FWSM is running in transparent mode. Which command will prevent spanning-tree routing loops?

- A. access-list [name] ethertype permit bpdu
- B. access-list [name] extended permit bpdu any any
- C. access-list [name] ethertype permit bpdu any any

D. access-list Enamel extended permit stp any any eq bpdu

Answer: A

QUESTION 49

Your customer has installed these components:

Two Cisco Catalyst 6500 Series Switches

FWSM in each Catalyst 6500

Active/active failover on FWSMs

4-Gbps trunk between the switches

Failover packets between the FWSMs must be transmitted in a timely fashion. What must be configured on the trunk?

- A. QoS
- B. stateful failover
- C. 6-Gbps bandwidth
- D. separate link for VLAN failover

Answer: A

QUESTION 50

Which command enables virtual firewalls on the FWSM?

- A. enable virtual
- B. enable context
- C. mode context
- D. mode multiple

Answer: D

QUESTION 51

What must be configured on the FWSM to forward traffic to a filtering server?

- A. the filtering server as an authentication provider (aaa-server)
- B. all web traffic so that it is directed only to the filtering server (access-list)
- C. all HTTP requests so that they are redirected to the filtering server (fixup protocol)
- D. all HTTP requests so that they are sent to the filtering server (url-server)

Answer: D

QUESTION 52

How many IDSs can be aggregated using a single EtherChannel in a highly available configuration?

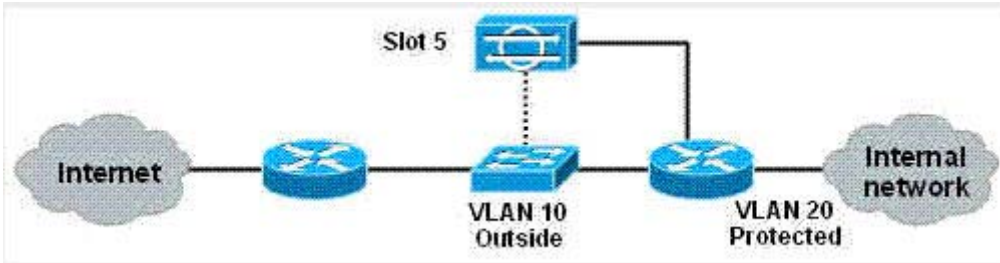
- A. 2
- B. 4

- C. 8
- D. 32

Answer: C

QUESTION 53

Refer to the exhibit.



Given this network design, which command would you use to configure traffic capture on the IDS?

- A. monitor session 1 source vlan 10
- B. monitor session 1 source vlan 20
- C. intrusion-detection module 5 data-port 1 access-vlan 10
- D. intrusion-detection module 5 data-port 1 access-vlan 20

Answer: A

QUESTION 54

How do you enable the use of Cisco Adaptive Security Device Manager on an existing FWSM?

- A. Enable SNMP.
- B. Enable SSH.
- C. Enable the HTTPS server.
- D. Enable multiple contexts.

Answer: C

QUESTION 55

What is the implication of executing the command failover interface-policy 2 on an FWSM?

- A. The configured failover interface policy will be applied to VLAN 2.
- B. The FWSM will fail over when more than one VLAN interface fails.
- C. The second configured failover interface policy will be applied to the FWSM.
- D. The FWSM will become active when it fails to receive two consecutive heartbeats from the paired FWSM.

Answer: B

QUESTION 56

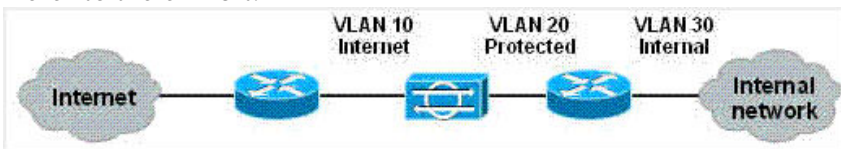
Which three values are user-configurable for risk ratings on the IDSM? (Choose three.)

- A. Target Value Rating
- B. Signature Age Rating
- C. Alert Reliability Rating
- D. Attack Severity Rating
- E. Signature Fidelity Rating
- F. Attack Probability Rating

Answer: A, D, E

QUESTION 57

Refer to the exhibit.



Given this network design, which command would you use to configure traffic capture on the IDSM?

- A. monitor session 1 source vlan 10
- B. monitor session 1 source vlan 20
- C. intrusion-detection module 5 data-port 1 access-vlan 30
- D. intrusion-detection module 5 data-port 1 access-vlan 20

Answer: D

QUESTION 58

What information is displayed when you execute this command on the IDSM?
show settings

- A. the management IP address
- B. the IDSM interface configuration
- C. the VLANs that are configured for traffic capture
- D. the VLANs that are configured for management access

Answer: A

QUESTION 59

A POP3 and an SMTP server must be visible at the same address through an FWSM. Which type of NAT is required?

- A. dynamic NAT
- B. identity NAT
- C. policy dynamic NAT

D. static NAT

Answer: D

QUESTION 60

How many capture files can be stored on an IDSM?

- A. 1
- B. 4
- C. 8
- D. 32

Answer: A