

350-401^{Q&As}

Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

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QUESTION 1

Which protocol is used to encrypt control plane traffic between SD-WAN controllers and SDWAN endpoints?

- A. DTLS
- B. IPsec
- C. PGP
- D. HTTPS

Correct Answer: A

DTLS protocol is used to encrypt control plane traffic between vSmart (controllers) and other SD-WAN endpoints.

QUESTION 2

Which NGFW mode block flows crossing the firewall?

- A. Passive
- B. Tap
- C. Inline tap
- D. Inline

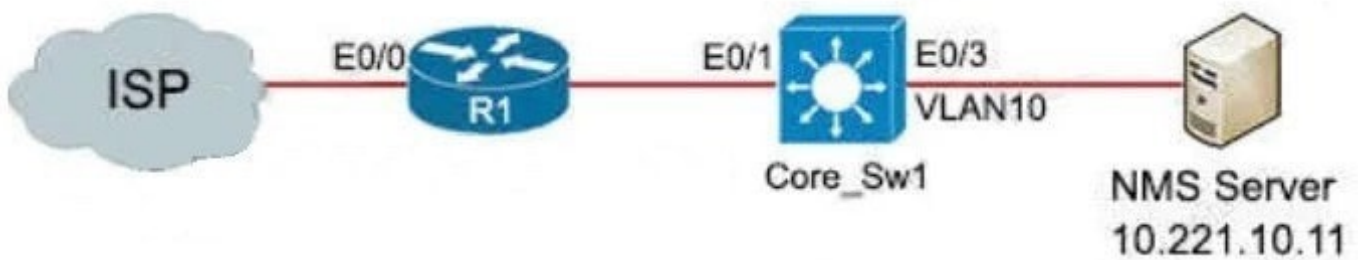
Correct Answer: D

Firepower Threat Defense (FTD) provides six interface modes which are: Routed, Switched, Inline Pair, Inline Pair with Tap, Passive, Passive (ERSPAN). When Inline Pair Mode is in use, packets can be blocked since they are processed inline. When you use Inline Pair mode, the packet goes mainly through the FTD Snort engine. When Tap Mode is enabled, a copy of the packet is inspected and dropped internally while the actual traffic goes through FTD unmodified.

<https://www.cisco.com/c/en/us/support/docs/security/firepower-ngfw/200924-configuringfirepower-threat-defense-int.html>

QUESTION 3

Refer to the exhibit. During ISP router maintenance, the network produced many alerts because of the flapping interface. Which configuration on R1 resolves the issue?



- A. snmp trap ip verify drop-rate
- B. no snmp trap link-status
- C. ip verify drop-rate notify hold-down 60
- D. snmp trap link-status down

Correct Answer: B

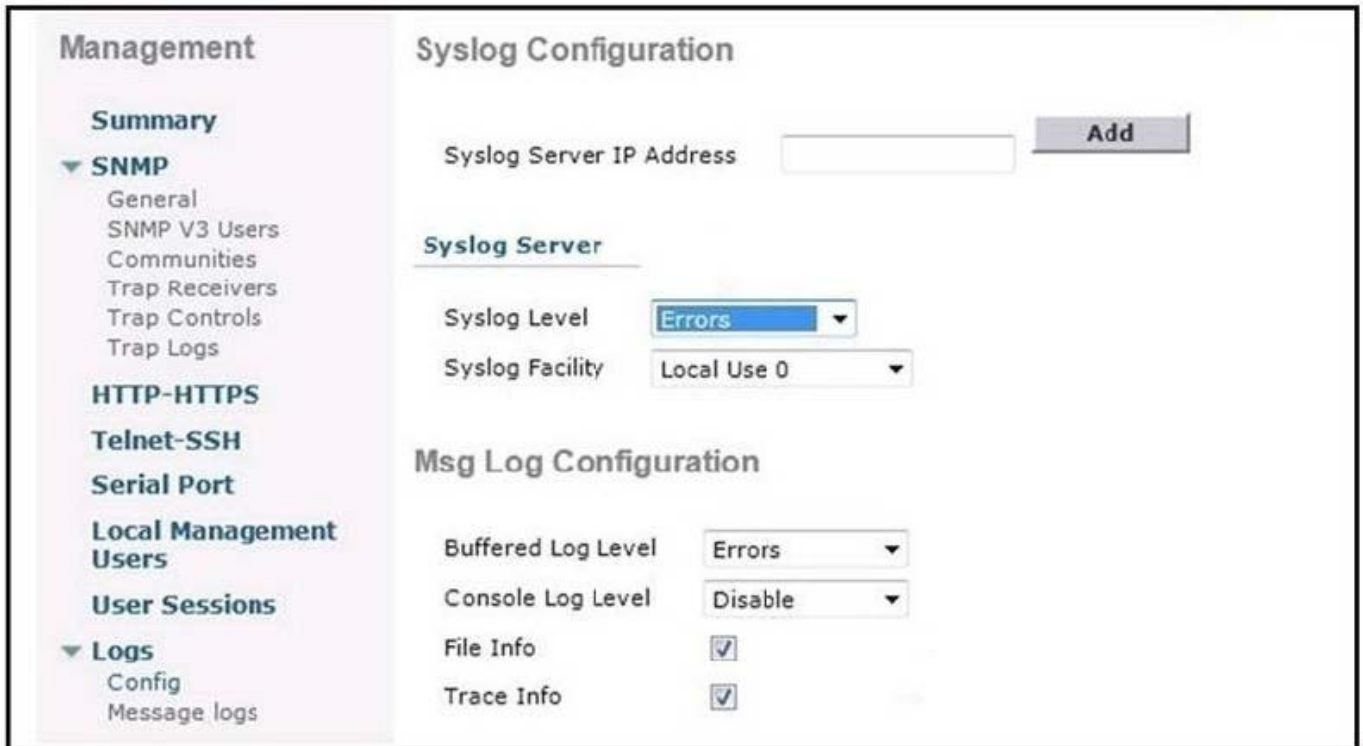
The command "snmp trap link-status" (and "no" form) enables or disables the sending of SNMP traps when an interface goes up and down. This command is useful on interfaces that you expect to change state frequently (for example, dial-on-demand interfaces). You may not want to send an SNMP trap to your network management stations whenever these interfaces change state.

Reference: <https://www.oreilly.com/library/view/cisco-ios-in/0596008694/re785.html>

Note: The command "ip verify drop-rate notify hold-down ..." configures the minimum time, in seconds, between Unicast RPF drop-rate notifications. But RPF is not a concern in this question.

QUESTION 4

Refer to the exhibit.



Which level message does the WLC send to the syslog server?

- A. syslog level errors and less severity messages
- B. syslog level errors messages
- C. all syslog levels messages
- D. syslog level errors and greater severity messages

Correct Answer: A

If you set a syslog level, only those messages whose severity is equal to or less than that level are sent to the syslog servers. For example, if you set the syslog level to Notifications (severity level 5), only those messages whose severity is between 0 and 5 are sent to the syslog servers. <https://www.cisco.com/c/en/us/support/docs/wireless/4100-series-wireless-lan-controllers/107252-WLC-Syslog-Server.html>

QUESTION 5

DRAG DROP

Drag and drop the threat defense solutions from the left onto their descriptions on the right.

Select and Place:

Umbrella	provides malware protection on endpoints
AMP4E	provides IPS/IDS capabilities
FTD	performs security analytics by collecting network flows
SteathWatch	protects against email threat vector
ESA	provides DNS protection

Correct Answer:

	AMP4E
	FTD
	SteathWatch
	ESA
	Umbrella

QUESTION 6

DRAG DROP

Drag and drop the characteristics from the left onto the deployment model on the right.

Select and Place:

saves on capital costs

provides full control of sensitive data

fast deployment of new services

improves service availability by supporting multiple WAN connectivity options

Cloud

On-Premises

Correct Answer:

saves on capital costs

fast deployment of new services

provides full control of sensitive data

improves service availability by supporting multiple WAN connectivity options

QUESTION 7

An engineer must configure HSRP for VLAN 1200 on SW1. The second switch is configured by using the last usable IP address in the network as the virtual IP. Which command set accomplishes this task?

- A. SW1(config)# interface vlan 1200 SW1(config-if)# ip address 172.12.0.254 255.255.255.0 SW1(config-if)# standby

version 2 SW1(config-if)# standby 1200 ip 172.12.0.2 SW1(config-if)# standby 1200 preempt

B. SW1(config)# interface vlan 1200 SW1(config-if)# ip address 172.12.0.2 255.255.255.0 SW1(config-if)# standby version 2 SW1(config-if)# standby 1200 ip 172.12.0.254 SW1(config-if)# standby 1200 preempt

C. SW1(config)# interface vlan 1200 SW1(config-if)# ip address 172.12.0.2 255.255.255.0 SW1(config-if)# standby 1200 ip 172.12.0.254 SW1(config-if)# standby 1200 timers 5 15 SW1(config-if)# standby 1200 preempt

D. SW1(config)# interface vlan 1200 SW1(config-if)# ip address 172.12.0.1 255.255.255.0 SW1(config-if)# standby 1200 ip 172.12.0.254 SW1(config-if)# standby 1200 timers 5 15 SW1(config-if)# standby 1200 preempt

Correct Answer: B

QUESTION 8

Refer to the exhibit.



```
London(config)#interface range fa0/1-2
London(config-if-range)#switchp trunk encapsulation dot1q
London(config-if-range)#switchp mode trunk
London(config-if-range)#channel-group 1 mode active
London(config-if-range)#end
London#
```

```
NewYork#show etherchannel summary
Flags: D - down          P - in port-channel
       I - stand-alone  s - suspended
       H - Hot-standby (LACP only)
       R - Layer3       S - Layer2
       U - in use       f - failed to allocate aggregator
       u - unsuitable for bundling
       w - waiting to be aggregated
       d - default port
```

```
Number of channel-groups in use: 1
Number of aggregators:          1
Group Port-channel Protocol Ports
-----
1 Po1(SD) PAgP Fa0/1(I) Fa0/2(D)
```

```
NewYork#
NewYork#show etherchannel port-channel
Channel-group listing:
```

```
Group: 1
-----
Port-channels in the group:
```

```
Port-channel: Po1
-----
Age of the Port-channel = 00d:00h:14m:20s
Logical slot/port = 2/1 Number of ports = 0
GC = 0x00000000 HotStandBy port = null
Port state = Port-channel |
Protocol = PAGP
Port Security = Disabled
```

Communication between London and New York is down. Which command set must be applied to the NewYork switch to

resolve the issue?

- A. NewYork(config)#no interface po1 NewYork(config)#interface range fa0/1-2 NewYork(config-if)#channel-group 1 mode negotiate NewYork(config-if)#end NewYork#
- B. NewYork(config)#no interface po1 NewYork(config)#interface range fa0/1-2 NewYork(config-if)#channel-group 1 mode on NewYork(config-if)#end NewYork#
- C. NewYork(config)#no interface po1 NewYork(config)#interface range fa0/1-2 NewYork(config-if)#channel-group 1 mode passive NewYork(config-if)#end NewYork#
- D. NewYork(config)#no interface po1 NewYork(config)#interface range fa0/1-2 NewYork(config-if)#channel-group 1 mode auto NewYork(config-if)#end NewYork#

Correct Answer: C

QUESTION 9

Refer to the exhibit.

```
interface Vlan10
 ip vrf forwarding Customer1
 ip address 192.168.1.1 255.255.255.0
 !
interface Vlan20
 ip vrf forwarding Customer2
 ip address 172.16.1.1 255.255.255.0
 !
interface Vlan30
 ip vrf forwarding Customer3
 ip address 10.1.1.1 255.255.255.0
```

Which configuration allows Customer2 hosts to access the FTP server of Customer1 that has the IP address of 192.168.1.200?

- A. ip route vrf Customer1 172.16.1.0 255.255.255.0 172.16.1.1 global ip route vrf Customer 192.168.1.200 255.255.255.255 192.168.1.1 global ip route 192.168.1.0 255.255.255.0 Vlan10 ip route 172.16.1.0 255.255.255.0 Vlan20
- B. ip route vrf Customer1 172.16.1.0 255.255.255.0 172.16.1.1 Customer2 ip route vrf Customer 192.168.1.200 255.255.255.255 192.168.1.1 Customer1
- C. ip route vrf Customer1 172.16.1.0 255.255.255.0 172.16.1.1 Customer1 ip route vrf Customer 192.168.1.200 255.255.255.255 192.168.1.1 Customer2
- D. ip route vrf Customer1 172.16.1.1 255.255.255.255 172.16.1.1 global ip route vrf Customer 192.168.1.200 255.255.255.0 192.168.1.1 global ip route 192.168.1.0 255.255.255.0 Vlan10 ip route 172.16.1.0 255.255.255.0 Vlan20

Correct Answer: A

<https://www.cisco.com/c/en/us/support/docs/ip/ip-routing/200158-Configure-Route-Leaking-between-Global-a.html>

QUESTION 10

Refer to the exhibit.

```
DSW2#sh spanning-tree vlan 10

VLAN0010
Spanning tree enabled protocol rstp
  Root ID    Priority    4106
            Address    0018.7363.4300
            This bridge is the root
            Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    4106 (priority 4096 sys-id-ext 20)
            Address    0018.7363.4300
            Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
            Aging Time 300

Interface          Role Sts Cost          Prio.Nbr Type
-----
Fa1/0/7            Desg FWD 2           128.9   P2p Peer (STP)
Fa1/0/10           Desg FWD 4           128.12  P2p Peer (STP)
Fa1/0/11           Desg FWD 2           128.13  P2p Peer (STP)
Fa1/0/12           Desg FWD 2           128.14  P2p Peer (STP)
```

What is the result when a switch that is running PVST+ is added to this network?

- A. DSW2 operates in Rapid PVST+ and the new switch operates in PVST+
- B. Both switches operate in the PVST+ mode
- C. Spanning tree is disabled automatically on the network
- D. Both switches operate in the Rapid PVST+ mode.

Correct Answer: A

From the output we see DSW2 is running in RSTP mode (in fact Rapid PVST+ mode as Cisco does not support RSTP alone). When a new switch running PVST+ mode is added to the topology, they keep running the old STP instances as RSTP (in fact Rapid PVST+) is compatible with PVST+.

QUESTION 11

Which method provides failure detection in BFD?

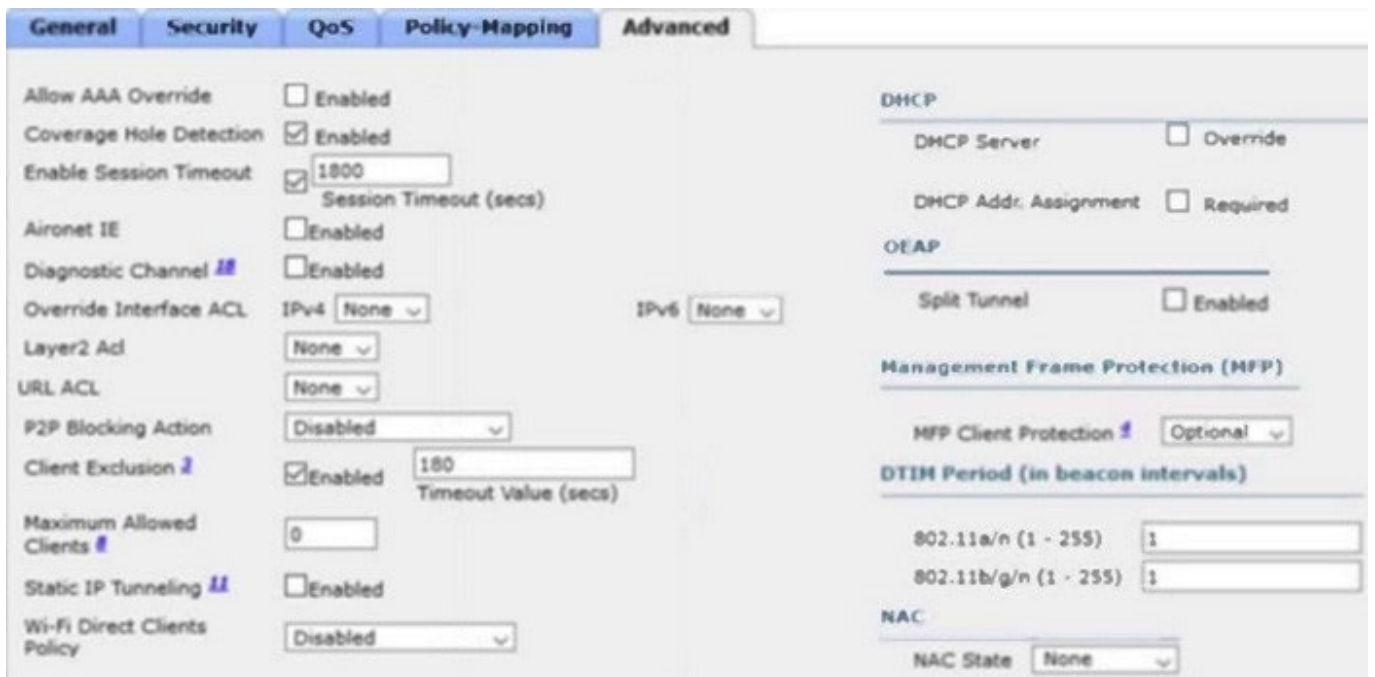
- A. short duration, high overhead
- B. short duration, low overhead

- C. long duration, high overhead
- D. long duration, low overhead

Correct Answer: B

QUESTION 12

Refer to the exhibit.



An engineer is troubleshooting an mDNS issue in an environment where Cisco ISE is used to dynamically assign mDNS roles to users. The engineer has confirmed that ISE is sending the correct values, but name resolution is not functioning as expected.

Which WLC configuration change resolves the issue?

- A. Enable AAA Override.
- B. Enable Aironet IE.
- C. Set MFP client protection to Required.
- D. Change NAC state to ISE NAC.

Correct Answer: A

QUESTION 13

Which method does the enable secret password option use to encrypt device passwords?

- A. AES

B. CHAP

C. PAP

D. MD5

Correct Answer: D

Reference: <https://www.cisco.com/c/en/us/support/docs/security-vpn/remote-authentication-dial-user-service-radius/107614-64.html>

QUESTION 14

Which multicast operational mode sends a prune message to the source when there are no connected members or downstream neighbors?

A. IGMPv3

B. PIM dense mode

C. PIM sparse mode

D. IGMPv2

Correct Answer: B

QUESTION 15

DRAG DROP

A network engineer is adding an additional 10Gps link to an existing 2x10Gps LACP-based LAG to augment its capacity. Network standards require a bundle interface to be taken out of service if one of its member links goes down, and the new link must be added with minimal impact to the production network. Drag and drop the tasks that the engineer must perform from the left into the sequence on the right. Not all options are used.

Select and Place:

- Execute the channel-group number mode active command to add the 10Gbps link to the existing bundle.
- Execute the channel-group number mode on command to add the 10Gbps link to the existing bundle.
- Execute the lacp min-bundle 3 command to set the minimum number of ports threshold.
- Validate the network layer of the 10Gbps link.
- Execute the channel-group number mode auto command to add the 10Gbps link to the existing bundle.
- Validate the physical and data link layers of the 10Gbps link.

- step 1
- step 2
- step 3
- step 4

Correct Answer:

- Execute the channel-group number mode on command to add the 10Gbps link to the existing bundle.
- Execute the channel-group number mode auto command to add the 10Gbps link to the existing bundle.

- Validate the physical and data link layers of the 10Gbps link.
- Execute the channel-group number mode active command to add the 10Gbps link to the existing bundle.
- Execute the lacp min-bundle 3 command to set the minimum number of ports threshold.
- Validate the network layer of the 10Gbps link.

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