

400-201 Dumps

CCIE SP Written v4.0

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NEW QUESTION 1

Which three IS-IS TLVs floods the MPLS TE resource allocation information through the network?
(Choose three)

- A. Traffic engineering router ID
- B. Extended IP reachability
- C. IS TE reachability
- D. RSVP
- E. Extended IS reachability
- F. Opaque

Answer: ABE

NEW QUESTION 2

Which are the two purposes of the MPLS label value 1? (Choose two.)

- A. It indicates an implicit null label
- B. It is used to carry the QoS value in the label stack
- C. It is used for VPNv6 packets
- D. It is used for MPLS OAM packets
- E. It indicates an explicit null label
- F. It indicates a router alert label

Answer: DF

NEW QUESTION 3

In an end-to-end layer 2 service, Which technology provides the capability to detect verify isolate and report faults across a provider network?

- A. CFM
- B. Carrier detect
- C. UDLD
- D. BFD

Answer: A

NEW QUESTION 4

Why are thresholds defined based on baseline documents?

- A. To help identify current network problems and predict future bottlenecks
- B. To reduce polling traffic on the network
- C. To verify that interfaces are in the correct state
- D. To suppress duplicate alarms and for event correlation
- E. To ensure that QoS parameters are defined appropriately

Answer: A

NEW QUESTION 5

A service provider has deployed new PEs using nV Edge technology based on Cisco ASR 9000 routers. How does the system mitigate against a split-brain state if all control plane and data plane links are lost?

- A. The chassis located in the second rack automatically shuts down and only the first rack chassis stays operational
- B. Both chassis stay online operating as two different PEs
- C. The two chassis send keepalive packets over any layer 2 clou
- D. The non-DSC chassis shuts down itself after it has received these additional keepalive packets
- E. Both chassis stop receiving and forwarding data traffic until the control plane and data plane links are brought back up

Answer: B

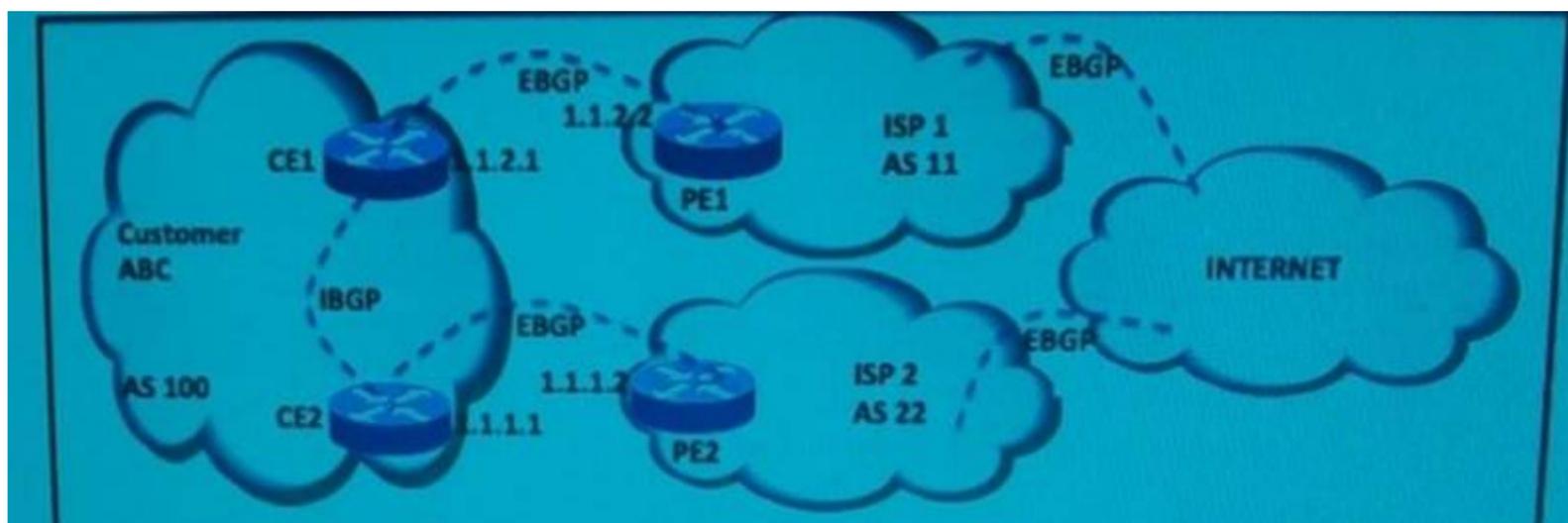
NEW QUESTION 6

A service provider is using multicast flows to provide streaming video content to its customers. Video streams are sometimes interrupted, and network instability is determined to be the cause. Which action should the service provider take to decrease the burden on the router resources in an unstable unicast routing environment?

- A. increase the PIM hello hold timers
- B. reduce the volume of query messages
- C. filter unnecessary SA messages
- D. tune the RPF backoff

Answer: D

NEW QUESTION 7



Refer to the exhibit Customer ABC is peering with two service providers for internet access. In order to prevent the AS 100 from becoming a transit AS between ISP_1 and ISP_2. Which BGP configuration must be applied to achieve this goal?

- A. CE1# CE2#ip as-path access-list 1 permit^100\$ ip as-path access-list 1 permit^100\$ route-map LOCAL_ONLY permit 10 route-map LOCAL_ONLY permit 10 match as-path 1 match as-path 1router bgp 100 router bgp 100neighbor 1.1.2.2 route-map LOCAL_ONLY in neighbor 1.1.1.2 route-map LOCAL_ONLY in
- B. CE1# CE2#ip as-path access-list 1 permit^\$ ip as-path access-list 1 permit^\$route-map LOCAL_ONLY permit 10 route-map LOCAL_ONLY permit 10 match as-path 1 match as-path 1router bgp 100 router bgp 100neighbor 1.1.2.2 route-map LOCAL_ONLY out neighbor 1.1.1.2 route-map LOCAL_ONLY out
- C. CE1# CE2#ip as-path access-list 1 permit^\$ ip as-path access-list 1 permit^\$route-map LOCAL_ONLY permit 10 route-map LOCAL_ONLY permit 10 match as-path 1 match as-path 1router bgp 100 router bgp 100neighbor 1.1.2.2 route-map LOCAL_ONLY out neighbor 1.1.2.2 route-map LOCAL_ONLY out
- D. CE1# CE2#ip as-path access-list 1 permit^11\$ ip as-path access-list 1 permit^11\$ route-map LOCAL_ONLY permit 10 route-map LOCAL_ONLY permit 10 match as-path 1 match as-path 1router bgp 100 router bgp 100neighbor 1.1.2.2 route-map LOCAL_ONLY out neighbor 1.1.2.2 route-map LOCAL_ONLY out
- E. CE1# CE2#ip as-path access-list 1 permit^\$ ip as-path access-list 1 permit^\$route-map LOCAL_ONLY permit 10 route-map LOCAL_ONLY permit 10 match as-path 1 match as-path 1router bgp 100 router bgp 100neighbor 1.1.2.2 route-map LOCAL_ONLY in neighbor 1.1.1.2 route-map LOCAL_ONLY in

Answer: C

NEW QUESTION 8

Which option is the benefit of per-link LFA over per-prefix LFA?

- A. It has a greater applicability
- B. It provides greater protection coverage
- C. It is simpler
- D. It enables better bandwidth utilization

Answer: C

NEW QUESTION 9

```
Router#sh ip pim neighbor
PIM Neighbor Table
Mode: B - Bidir Capable, DR - Designated Router, N - Default DR Priority,
S - State Refresh Capable
Neighbor      Interface      Uptime/Expires  Ver  DR
Address                               Prio/Mode
135.23.35.2   FastEthernet0/0 10:11:30/00:01:35 v2   1 / S
145.35.45.2   FastEthernet0/1 11:11:01/00:01:32 v2   1 / S

Router#sh ip route
45.0.0.0/24 is subnetted, 1 subnets
0 IA 45.45.45.0 [110/20] via 145.35.45.2, 00:17:39, FastEthernet0/1
      110/20] via 135.23.35.2, 00:17:39, FastEthernet0/0
```

Refer to the exhibit PIM sparse mode is implemented in the network RPF succeeds under which condition?

- A. The RPF check succeeds for the highest DR priority for the PIM router
- B. The RPF check succeeds for both PIM neighbors, and traffic load-balances across both neighbors
- C. The RPF check succeeds for the next hop whose router ID is the highest
- D. The RPF check succeeds for the highest interface IP address for the PIM router

Answer: D

NEW QUESTION 10



Refer to the exhibit. The ITR map cache is empty. The ITR receives packet destined for 10.2.1.10 and it sends query to the MR. Which action does the MR/MS take after receive the query for 10.2.1.10?

- A. The MR sends a map notify to the requesting ITR with address of 172.17.1.1 as the 10.2.1.0/24
- B. The MR forwards the map request query to the ETR responsible for the EID 10.2.1.0/24
- C. The MR forwards the map notify request to the ETR responsible for the EID 10.2.1.0/24
- D. The MR sends a map reply to the requesting ITR with address of 172.17.1.1 as the for 10.2.1.0/24

Answer: B

NEW QUESTION 10

An support engineer has been tasked to protect an ISP infrastructure from the growing number of encrypted DDoS attacks. The solution should also validate the eBGP peering. Which solution accomplishes these goals?

- A. BGP FlowSpec
- B. BTSH
- C. BGP Route Dampening
- D. BGP LS
- E. RTBH

Answer: B

NEW QUESTION 15

Which multicast feature listens multicast conversations maintaining a map in order to control which ports receive specific multicast traffic?

- A. Bidirectional PIM
- B. Source Specific Multicast
- C. PIM assertion
- D. IGMP snooping

Answer: D

NEW QUESTION 20

An Enterprise XYZ company has a requirement to extend the MPLS/Layer 3 VPN MAN network to the remote branches using Internet as the transport. Which solution can you provide seamless extension of the MPLS/Layer 3 VPN?

- A. LISP
- B. L2TPv3
- C. Cisco Unified MPLS
- D. 2547oDMVPN
- E. Carrier Supporting Carrier

Answer: D

NEW QUESTION 21

Which description of the Russian Doll Model is true?

- A. RDM provides bandwidth sharing while providing bandwidth isolation and protection against QoS degradation, and also provides service differentiation for high-priority, normal- priority and best-effort priority services
- B. RDM matches simple bandwidth control policies setting individual bandwidth constraint for a given class type and simultaneously limit the aggregate of reserved bandwidth across all class types
- C. RDM can be used simultaneously to ensure bandwidth efficiency and to protect against QoS degradation of all class types, whether preemption is used or not
- D. RDM guarantees a predefined amount of bandwidth for each type and at the same time allows the bandwidth sharing by defining two pools for every class type: private pool (guaranteed bandwidth) and common pool (bandwidth shared between all class types)

Answer: C

NEW QUESTION 24

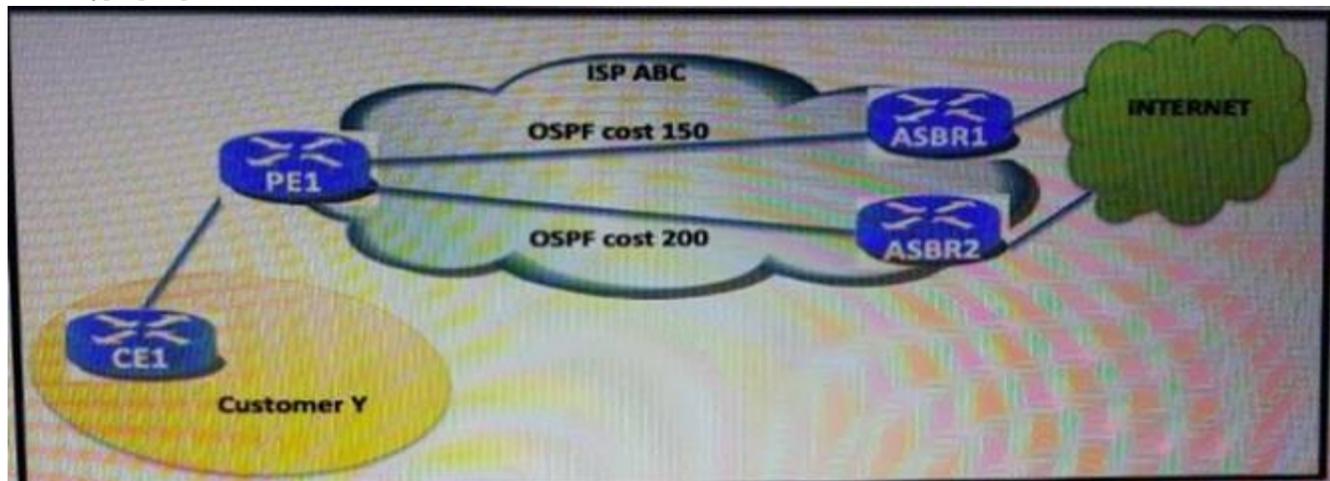
REP has been deployed in a segment. A network operations engineer notices that a segment port does not become operational. What is the root cause of this issue?

- A. A neighbor is using a different port ID

- B. A local port is in alternate port state
- C. A neighbor port is in blocked state
- D. More than one neighbor has the same segment ID

Answer: D

NEW QUESTION 27



Refer to the exhibit. Customer Y reported that internet traffic stopped for a few minute. The ISP ABC operation engineer identified that this occurred when ASBR1 router reloaded OSPF coverage faster than BGP. Which command prevent this happening?

- A. Graceful restart
- B. set-overload-bit on startup wait-for-bgp
- C. bfd min_rx 100 max_rx 100 multiplier 3
- D. max-metric router-lsa on startup 300

Answer: D

NEW QUESTION 28

A network operation engineer has these requirement:

- *prevent multicast transit when it is enforced by unicast stub routing.
 - *Reduce the overall processing of PIM control traffic. Especially when the number of stub links increases on the stub device.
 - *protect against multicast spoofing of PM designated router messages and PIM assert messages.
- Which solution meets these requirements?

- A. explicit tracking of receivers.
- B. multicast stub routing.
- C. Source Specific Multicast.
- D. PIM allow RP.

Answer: B

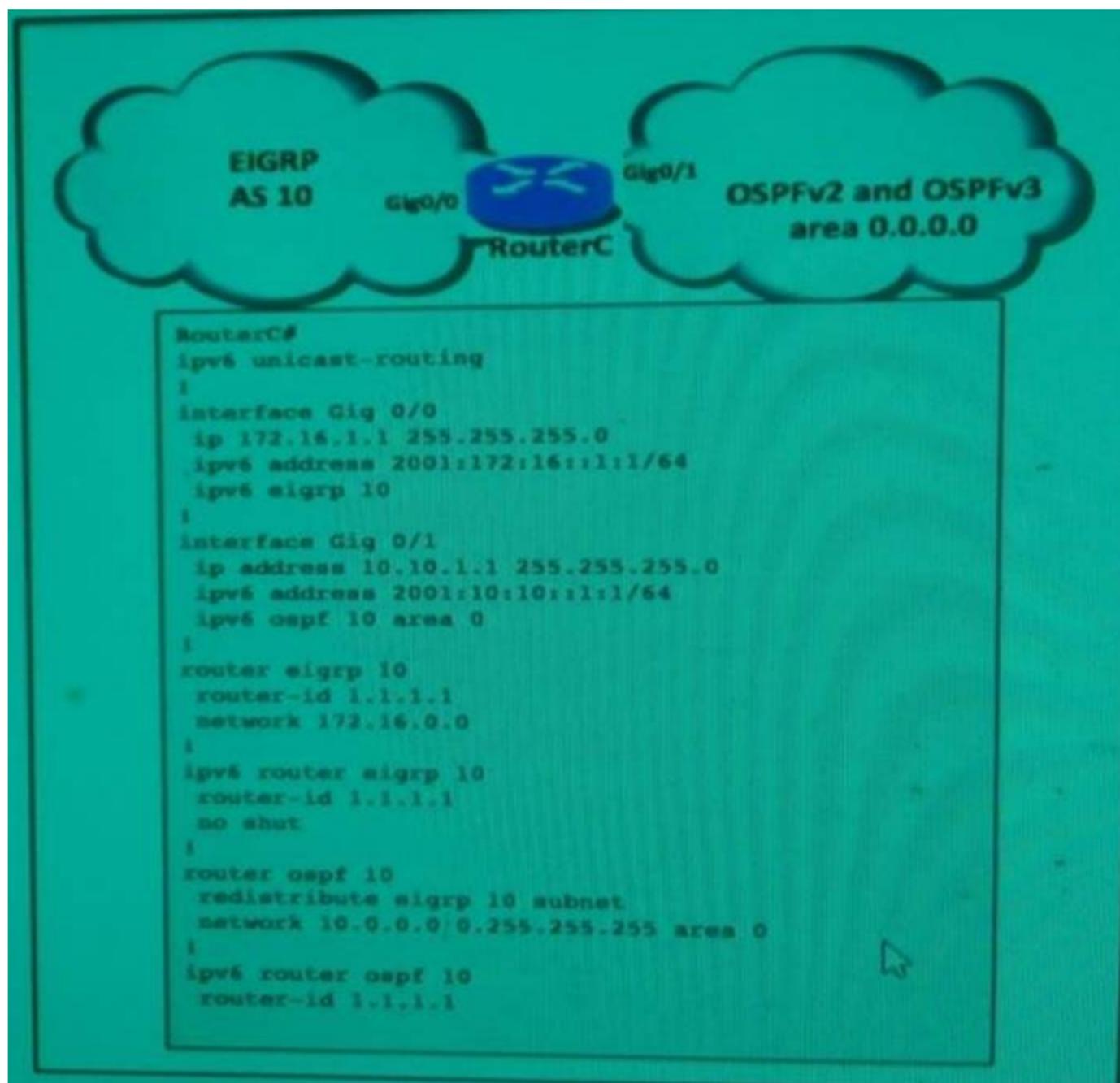
NEW QUESTION 31

A service provider is using point-to-multipoint TE to forward MPLS traffic from one source to multiple destinations, what is a restriction of using this method?

- A. Destinations must be manually added and removed on the TE tail-end router
- B. Multicast traffic must be implemented using PIM sparse mode
- C. Point-to-multipoint TE does not support policy-based routing
- D. Only node protection is supported on point-to-multipoint TE LSPs

Answer: C

NEW QUESTION 34



Refer to the exhibit, Which OSPFv3 redistribute configuration provides the equivalent results when redistributing from EIGRP Pv6 onto OSPFv3 as it happens when redistributing from EIGRPv4 to OSPFv2?

- A. ipv6 router ospf 10 redistribute eigrp 10 redistribute connected
- B. ipv6 router ospf 10 redistribute eigrp 10 connected
- C. ipv6 router ospf 10 redistribute eigrp 10 include-connected
- D. ipv6 router ospf 10 redistribute eigrp 10

Answer: C

NEW QUESTION 38

On Cisco IOS devices, which IS-IS feature reduces the convergence time for prefixes designated as high priority?

- A. iSPF
- B. advertise passive only
- C. prefix prioritization
- D. Fast-Forwarding

Answer: C

NEW QUESTION 41

A corporate ABC located in the US acquired Company XYZ which is located in Europe. Both companies are connected to the internet using the local ISP. A management VLAN must be built using subnet 192.168.1.0/24 across the ABC and XYZ sites. Which solution meets this requirement?

- A. Layer 3 VPN
- B. AToM
- C. VPLS
- D. L2TPv3

Answer: D

NEW QUESTION 43

ISP_X has IPv4 only enabled in the MPLS backbone. ISP_X must provide IPv6 services to its customers including IPv6 Internet access. Which IPv6 transition mechanism allows ISP_X to provide IPv6 connected by leveraging the existing MPLS IPv4 core network?

- A. 6to4 tunnels
- B. NAT444
- C. 6PE
- D. NAT64

- E. 6RD
- F. DS Lite

Answer: A

NEW QUESTION 44

A service provider engineer enabled the BGP next-hop tracking feature and also tuned the OSPF to increase the network convergence in case of network failures. However, the operator engineer notices that in cases of PE failure, the network convergence is still slow. Which configuration must the operator use to remedy this failure scenario?

- A.
router bgp 65000 address-family ipv4
bgp nexthop trigger delay 1
!
address-family vpnv4
bgp nexthop trigger delay 1
- B.
ip prefix-list PREFIX_32 permit 0.0.0.0/0 ge 32
!
route-map ONLY_32 permit 10
match ip address prefix-list PREFIX_32 match source-protocol ospf
!
router bgp 65000 address-family vpnv4
bgp next-hop route-map ONLY_32
- C.
router ospf 1
default-information originate always metric-type 1 timers throttle lsa 1 5 5000
timers throttle spf 1 5 5000
- D.
router ospf 1
no default-information originate timers throttle lsa all 1 5 5000
times throttle spf 1 5 5000
- E.
router bgp 65000 address-family ipv4
no bgp next-hop trigger enable bgp additional-paths install
!
address-family vpnv4
no bgp next-hop trigger enable bgp additional-paths install

Answer:

NEW QUESTION 48

Which two characteristics of GMPLS are true? (Choose two)

- A. The LSP is established directionally through only one signaling message
- B. The control channel can terminate on different nodes types than the bearer channels span
- C. OXCs manipulate wavelengths that bear the label implicitly
- D. Two light paths traversing the same fiber link can share the same wavelength on that link
- E. LMP can be used by the natively photonic switches network element type only

Answer: AC

NEW QUESTION 50

How does BGPsec protect advertisements by preventing from the malicious traffic flows?

- A. It validates the AS path
- B. It validates only the originating AS
- C. It validates routes with encryption
- D. It validates the next-hop AS

Answer: A

NEW QUESTION 52

Refer to the exhibit. Why is router 1 unable to ping 10.10.100.2 from vrf cust1?

- A. Because Multi-VRF support is not enabled
- B. Because address-family ipv4 is missing from the VRF statement
- C. Because of an incorrect interface configuration
- D. Because of a missing BGP configuration

Answer: B

NEW QUESTION 57

A service provider NOC engineer received numerous support tickets from their VPN customer. This customer is reporting packet loss between two PE routers. The NOC engineer created a VRF TEMP to run test between these two PE routers and no error was reported. ECMP links are used between P and PE routers. Which test can quickly identify the core link that is causing the problem.

- A. an MPLS traceroute with multipath option between the PE's loopback

- B. an extended traceroute with multipath option between PE's loopback
- C. a VRF traceroute between customer's CE router and service provider remote PE router
- D. a VRF ping between customer's CE router and service provider remote PE router
- E. an extended ping with sweep option between the PE's Loopbacks
- F. an MPLS ping with sweep option between the PE's Loopbacks

Answer: A

NEW QUESTION 60

Refer to the exhibit A service provider is using the configuration to determine traffic paths based on MPLS EXP marking. Which technology is being implemented?

- A. CBTS
- B. DS-TE
- C. PBTS
- D. IP FBR

Answer: A

NEW QUESTION 61

What is the main goal of the incident management?

- A. Restore a normal service operation as quickly as possible
- B. Create possible workarounds for issues that might recur
- C. Enable the cursor to report issues
- D. Ensure that the same incident does not recur

Answer: A

NEW QUESTION 65

Two routers that are running MPLS and LDP have multiple links that than connect them to each other. An engineer wants to ensure that the label bindings are not flushed from the LIB if one of the links fails. Which configuration meets this requirement?

- A. the mpls ldp neighbor targeted command
- B. the mpls ip command on a Cisco MPLS TE tunnel
- C. the mpls ldp autoconfig command
- D. the mpls ldp session protection command

Answer: D

NEW QUESTION 66

Which technology is a forwarding decision point in a PE router that provides flexibility to make many Layer 2 flow decisions within an interface?

- A. pseudowire
- B. AToM
- C. VPLS
- D. local connect
- E. EFP

Answer: E

NEW QUESTION 70

An engineer is tasked with configuring Lawful-Intercept on the Internet facing routers. Which two security issues must the engineer take into consideration? (Choose two)

- A. Encryption might be required depending on the request
- B. SNMPv2c should be enabled in order to provide the correct message format
- C. QoS and CoPP should be implemented to protect and optimize the tasks
- D. The communication between the MD and the Content IAP happens over UDP port 161
- E. Default SNMP does not include all the MIB interfaces needed to respond to the request
- F. A new and dedicated loopback interface is required to communicate with the MD device

Answer: DE

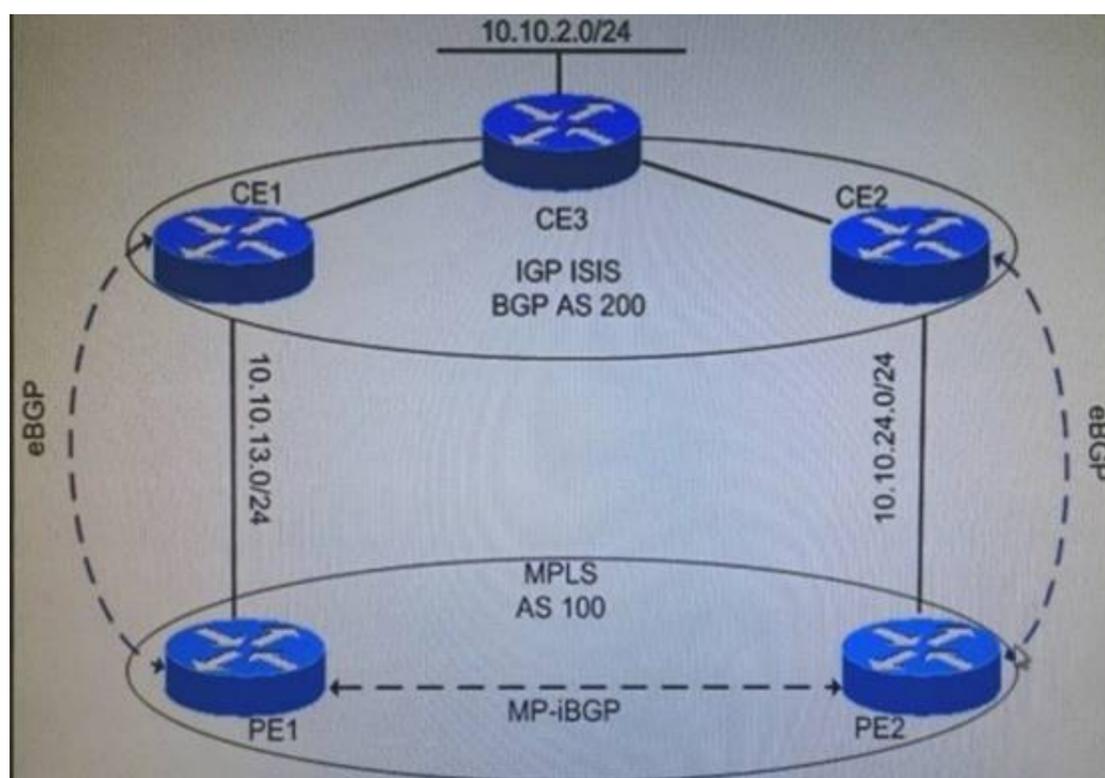
NEW QUESTION 73

A service provider has a requirements to deploy a virtual router in its network to handle high-performance data plane service up to 20Gbps. Which Cisco solution fulfills this requirement?

- A. Cisco 7600
- B. Cisco ASR 9000
- C. Cisco NCS 6000
- D. Cisco CSR 1000v
- E. Cisco nexus 9000v

Answer: B

NEW QUESTION 76



Refer to the exhibit. A customer is running IS-IS within a network and is using BGP as a CE-PE routing protocol. Which action allows CE1 to get the subnet 10.10.2.0/24 over the CE1-PE1 link, regardless of whether there is a flap in the MPLS link or backdoor link?

- A. Configure the neighbor <PE1-IP>weight 33768 command on CE1 under the BGP process.
- B. Configure the distance bgp 115 200 200 command on CE1 under the BGP process.
- C. Configure the distance 30 ip command on CE1 under the IS-IS process.
- D. Configure the distance bgp 115 200 200 command on CE2 under the BGP process.
- E. Configure the neighbor <PE1-IP>weight 33768 command on CE2 under the BGP process.

Answer: A

NEW QUESTION 81

An support engineer has been tasked to protect an ISP infrastructure from the growing number of encrypted DDoS attacks. The solution should also validate the eBGP peering. Which solution accomplishes these goals?

- A. BGP FlowSpec
- B. BTSH
- C. BGP Route Dampening
- D. BGP LS
- E. RTBH

Answer: E

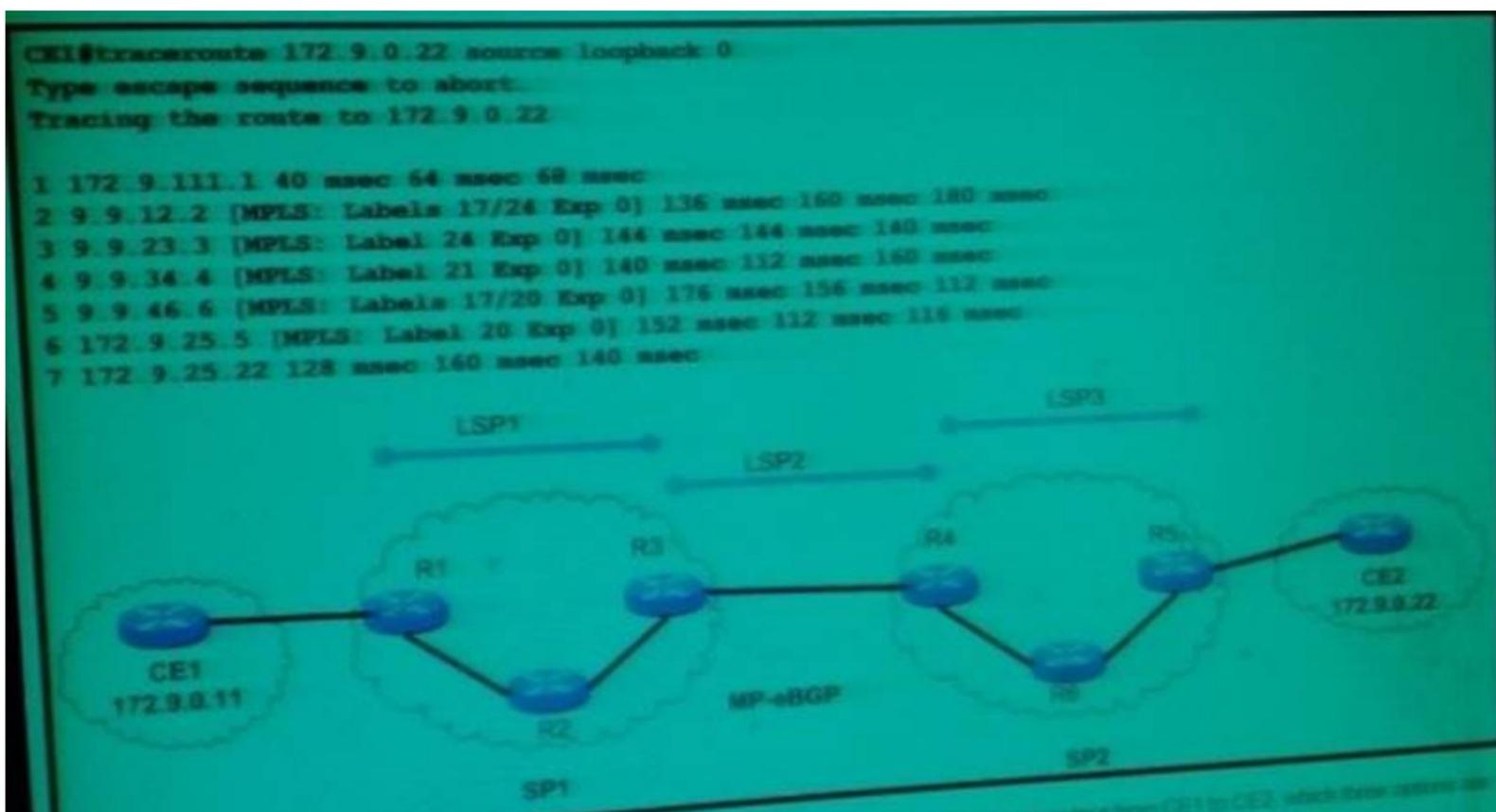
NEW QUESTION 85

Which three OSPF pieces of information must between routers in order to establish an ospf neighborhood? (Choose three)

- A. Area ID
- B. Hello interval and dead interval timer value
- C. LSA refresh period timer value
- D. Priority value
- E. Stub flag
- F. Process ID

Answer: ABE

NEW QUESTION 89

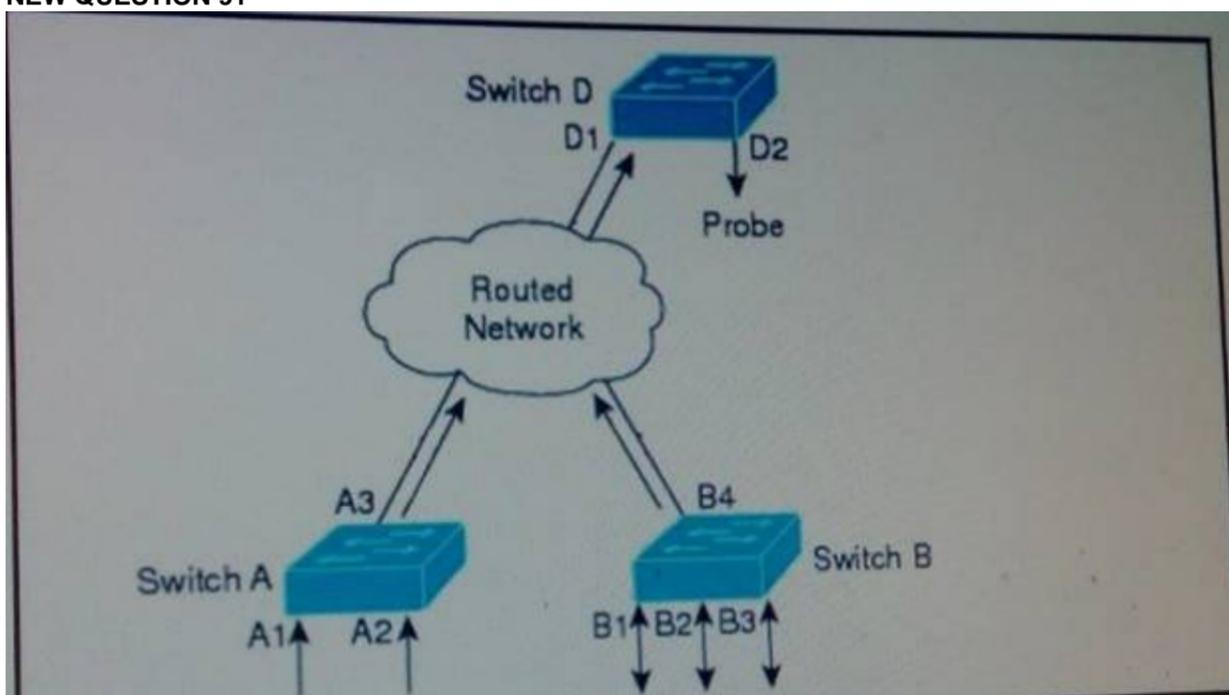


Refer to the exhibit. The topology is an inter-AS VPN that is using Option B. Given the traceroute output from CE1 to CE2. Which three options are VPN labels? (Choose two)

- A. Label 17 for LSP 1
- B. Label 21 for LSP 1
- C. Label 24 for LSP 1
- D. Label 17 for LSP 2
- E. Label 20 for LSP 2
- F. Label 21 for LSP 2
- G. Label 17 for LSP 3
- H. Label 20 for LSP 3

Answer: BCH

NEW QUESTION 91



Refer to the exhibit. The requirements is to copy traffic from switch A and switch B and to send it to a probe connected to switch D across the routed network. Which technology meets this requirement?

- A. NetFlow v5
- B. ERSPAN
- C. NetFlow v9
- D. RSPAN

Answer: B

NEW QUESTION 94

A service provider is in the process of providing Layer 2 and Layer 3 VPN services through a MPLS LDP-enabled backbone. With load increasing in the service provider domain, scalability become the most important. Based on the local label allocation filtering failure, which subnet of prefixes must be selected to meet these requirements?

- A. CE loopbacks only that are used as BGP next hop
- B. PE loopbacks that are used as BGP next hop
- C. RR, P, and PE loopbacks that are used as BGP next hop

D. all /32 prefixes advertised in the IGP

Answer: B

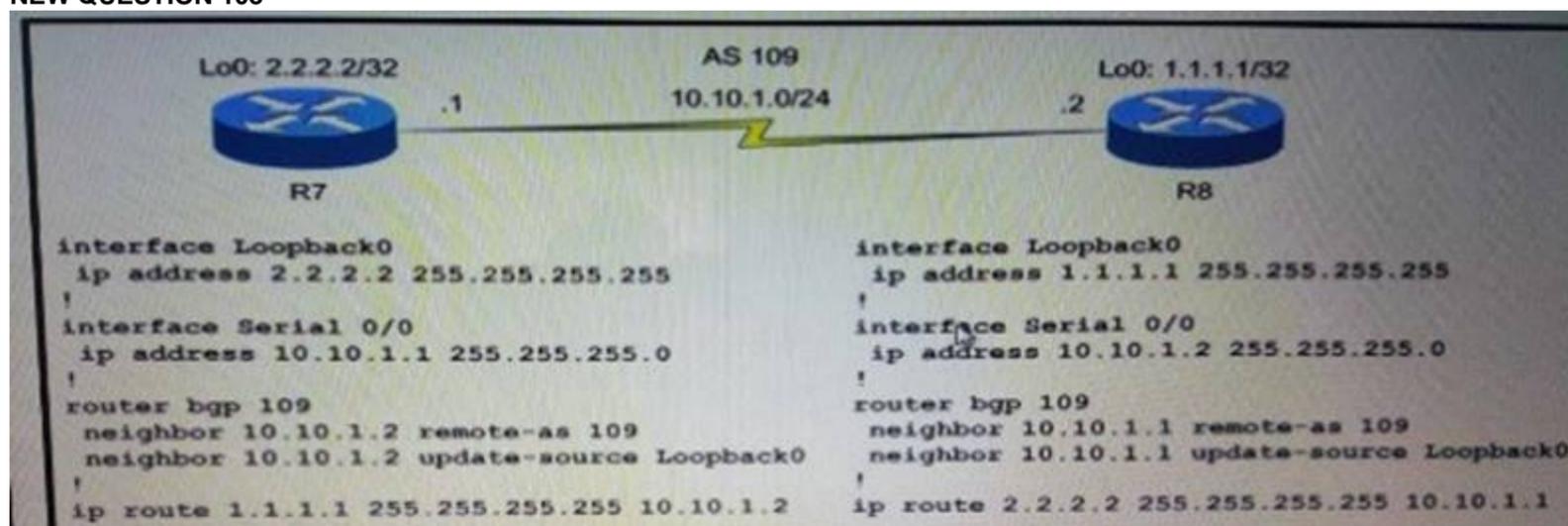
NEW QUESTION 99

A service provider is offering VoIP services level agreement to customers. Which configuration provides validation that the service level agreement has been honored?

- A. ipsla 999 udp-jitter 209.165.200.225 1000 codec g729a tag VoIP-SLA ipsla schedule 999 life forever start-time now
- B. ipsla 999 icmp-jitter 209.165.200.225 tag VoIP-SLA ipsla schedule 999 life forever start-time now
- C. ipsla 99 icmp-jitter 209.165.200.225 tos 160 ipsla schedule 999 life forever start-time now
- D. ipsla 999 udp-jitter 209.165.200.225 tos 160 ipsla schedule 99 life forever start-time now
- E. ipsla 999 udp-jitter 209.165.200.225 tos 160 ipsla schedule 999 life forever start-time now
- F. ipsla 999 udp-jitter 209.165.200.225 1000 codec g729a tos 160 ipsla schedule 99 life forever start-time now

Answer:

NEW QUESTION 103



Refer to the exhibit R7 and R8 unable to create IBGP session. What is the source of the Issue?

- A. misconfigured IP addresses in the neighbor command R7 and R8
- B. A BGP AS number misconfigured on R8
- C. an incorrect loopback address on R7
- D. an incorrect route on R7 and R8

Answer: A

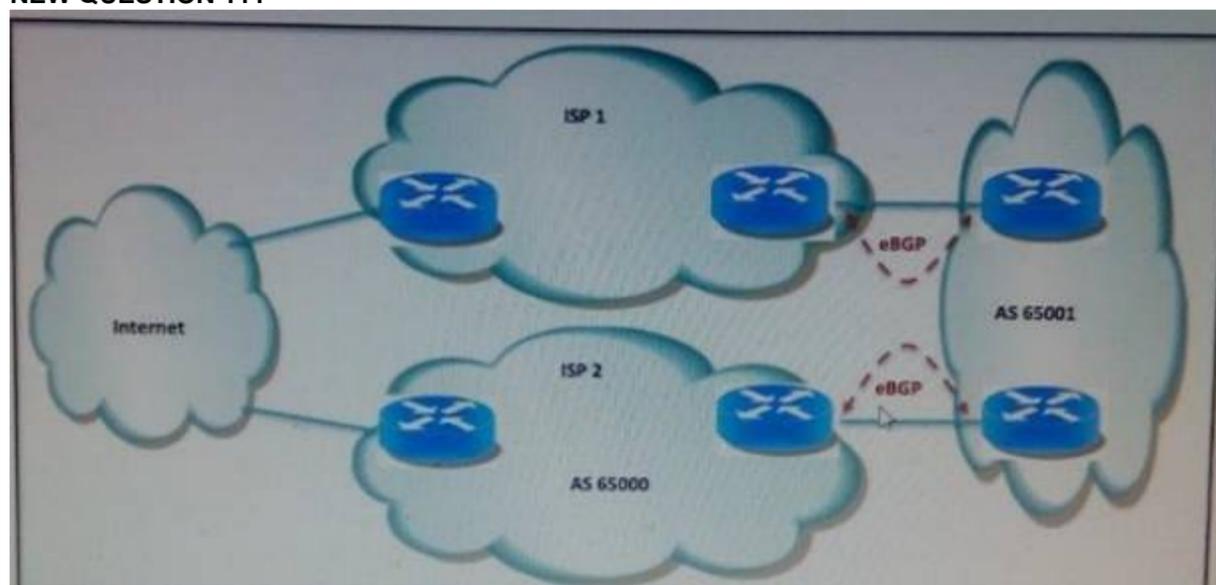
NEW QUESTION 106

What is the main different between an SNMP trap and a syslog message?

- A. SNMP traps are formally defined in a MIB, and syslog body contents are not formally defined
- B. SNMP traps are forwarded to EMS systems and syslog messages are forwarded to any NMS system
- C. SNMP traps are user-definable and vary based on vendor and syslog messages are standards-based
- D. SNMP traps are secure, and syslog message are not
- E. SNMP traps are triggered during network outages, and syslog messages are informational only

Answer: A

NEW QUESTION 111



Refer to the exhibit. A network engineer from ISP 2 is designing the BGP architecture with a requirement of preventing their customer AS 65001 from becoming a transit AS, using the following configuration.

Router BGP 65000
Neighbor 10.0.0.1 remote-as 65001
Neighbor 10.0.0.1 route-map BGP-ROUTE-policy in
Which Cisco IOS command should be used within the route-map to achieve the goal on ISP 2 from AS 65000?

A.
route-map BGP-ROUTE-POLICY permit 10 set community no-advertise additive

B.
ip as-path access-lists 1 permit^65001\$
!
route-map BGP-ROUTE-POLICY deny 10 match as-path 1
!
route-map BGP-ROUTE-POLICY permit 10

C.
ip as-path access-list 1 permit^65001\$
!
route-map BGP-ROUTE-POLICY permit 10 match as-path 1

D.
route-map BGP-ROUTE-POLICY permit 10
set community no-export additive

Answer:

NEW QUESTION 115

In a PE-CE scenario using OSPF as the routing protocol a down-bit set can be advertised in which OSPF LSA type?

- A. Type 1 LSA
- B. Type 2 LSA
- C. Type 3 LSA
- D. Type 4LSA

Answer: C

NEW QUESTION 118

Refer to the exhibit. All links have same bandwidth configured AS 4, AS 4 and AS 7 run OSPF as IGP using default metric values. Which two statements are correct in regards to MSDP SA messages received by R5 located in AS 7? (Choose two)

- A. All MSDP SA messages from R1 and R2 via R4 will be dropped
- B. All MSDP SA messages from R1 and R2 via R3 will be accepted
- C. All MSDP SA messages from R1 and R2 via R3 will be dropped
- D. All MSDP SA messages from R1 and R2 via R3 will be dropped and all MSDP SA messages from R2 via R4 will be dropped
- E. All MSDP SA messages from R1 and R2 via R4 will be accepted
- F. All MSDP SA messages from R1 via R3 will be accepted and all MSDP SA messages from R2 Via R4 will be accepted

Answer: AB

NEW QUESTION 121

Refer to the exhibit. The P1 router is elected as the DIS on the broadcast link. Assuming that all the configurations are applied correctly, how many routers will establish IS-IS neighborship with P1 router on this broadcast link?

- A. 1
- B. 2
- C. 3

Answer:

NEW QUESTION 122

ISP A provides L2VPN services to Company B through an MPLS network. Company B uses all available CoS values to classify and different traffic forwarding within all Company B sites. ISP A uses the following CoS values to differentiate service classes for the VPN customer traffic

*MPLS EXP 0 for Bronze service class

*MPLS EXP 1 for Silver service class

*MPLS EXP 2 for Gold service class

*Remaining MPLS EXP values for ISP A internal use

ISP A's policy is to forward VPN customer traffic based only on their Bronze, silver and Gold service classes. Which QoS method must ISP A implement to achieve this?

- A. Short-pipe Mode
- B. Russian Doll Model
- C. Pipe Mode
- D. Uniform Mode
- E. Maximum Allocation Model

Answer: D

NEW QUESTION 125

In a network function virtualization reference architecture, which two statement about virtualized network function are true?(Choose two)

- A. VNF is the totality of all hardware and software components that build up the NFV environment

- B. One VNF can be deployed over multiple VMs, where each VM hosts a single component of the VNF
- C. VNF performs the orchestration and lifecycle management of the software resources that supports the virtualized infrastructure
- D. VNF is a virtualization of a legacy network function
- E. VNF functionality includes control and management of the compute, storage, and network resources in the NFV framework

Answer: BD

NEW QUESTION 126

What type of IPv6 address is the address FF05::2:260:8F908?

- A. Multicast temporary site local
- B. Multicast permanent node link local
- C. Multicast permanent site local
- D. Multicast permanent link local

Answer: C

NEW QUESTION 127

```

R1/0/0/CPU0:R10#show running-config ntp
ntp
 max-associations 10
 authentication-key 1 md5 encrypted 123A2C243124
 authenticate
 trusted-key 1
 master 1
 access-group ipv4 peer NTP_Peers
 access-group ipv4 serve NTP_Clients
 source Loopback0
 update-calendar
!

R1/0/0/CPU0:R10#show running-config ipv4 access-list NTP_Peers
ipv4 access-list NTP_Peers
 10 permit ipv4 host 10.10.1.1 any
 20 permit ipv4 host 10.10.1.3 any
 30 permit ipv4 host 10.10.1.4 any
 40 permit ipv4 host 10.10.1.5 any
 50 permit ipv4 host 10.10.1.6 any
 60 permit ipv4 host 10.10.1.7 any
 70 permit ipv4 host 10.10.1.8 any
 80 permit ipv4 host 10.10.1.9 any
 90 permit ipv4 host 10.10.1.11 any
100 permit ipv4 host 10.10.1.12 any
!

R1/0/0/CPU0:R10#show running-config ipv4 access-list NTP_Clients
% No such configuration item(s)

R2#debug ntp all
NTP events debugging is on
NTP core messages debugging is on
NTP clock adjustments debugging is on
NTP reference clocks debugging is on
NTP packets debugging is on
R2#
*Apr 21 16:48:20.997: NTP message sent to 10.10.1.10, from interface
'Loopback0' (10.10.1.2).
*Apr 21 16:48:21.006: NTP message received from 10.10.1.10 on interface
'Loopback0' (10.10.1.2).
*Apr 21 16:48:21.006: NTP Core(DEBUG): ntp_receive: message received
*Apr 21 16:48:21.006: NTP Core(DEBUG): ntp_receive: peer is 0x7F8DBA067868, next action
is 1.
*Apr 21 16:48:21.006: NTP Core(INFO): 10.10.1.10 C01C 8C bad_auth crypto_NAK

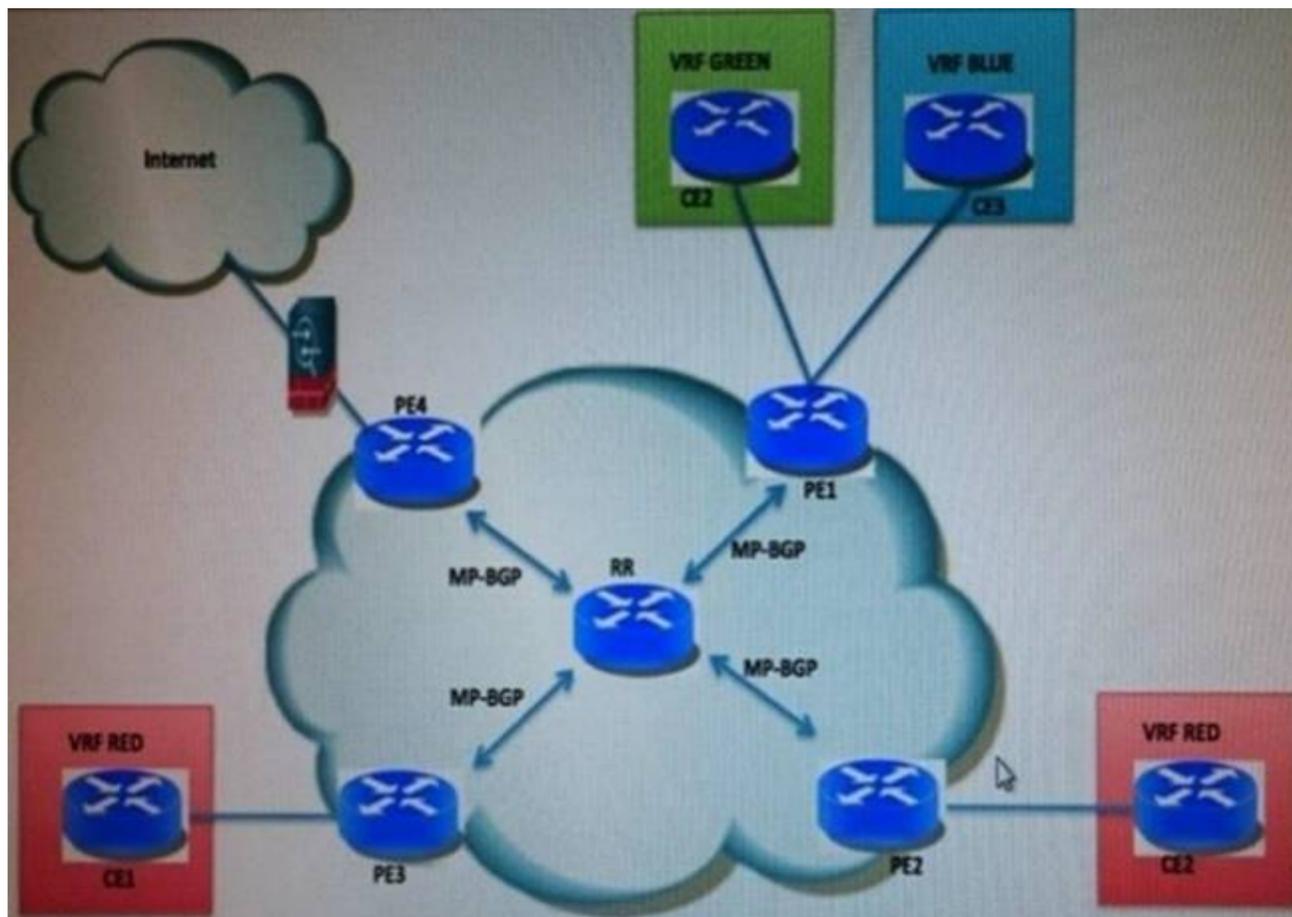
```

Refer to the exhibit. The NOC engineer noticed that the R2 router system clock is not updated and synchronized to the NTP server that is configured on the R10 router. What is the issue?

- A. The maximum number of peers and client associations is exceeded
- B. The access list NTP_Clients is missing
- C. The PE2 router should be configured as an NTP peer instead of as a client
- D. The access group is misconfigured
- E. The authentication key is mismatched

Answer: E

NEW QUESTION 131



Refer to the exhibit. The Service Provider is deploying Internet service to its VRF customers by using vrf INTERNET. A dedicated firewall provides NAT functionality towards the Internet. Assume that IP address overlapping between VRFs is not an issue.

Which three configuration steps are required to add Internet service to the VRF customers? (Choose three.)

- A. Export the RD of vrf INTERNET from all customer VRFs.
- B. Originate a default route on PE4 in vrf INTERNET.
- C. Import the RD from vrf INTERNET in all customer VRFs.
- D. Originate a default route on the firewall in vrf INTERNET.
- E. Import the VRF "INTERNET" Route Target in all customer VRFs.
- F. Import the Route Target of all customer VRFs in vrf INTERNET.
- G. Leak all VRF routes to the global routing table.

Answer: BEF

NEW QUESTION 134

Which statement about LISP proxy ETR is true?

- A. A LISP site with IPv4-only RLOC connectivity can send IPv6 EIDs within an IPv4 LISP header across the IPv4 internet
- B. A LISP PETR implements ITR mapping database lookup and LISP encapsulation functions on behalf of LISP-capable sites only
- C. A LISP site with IPv6-only RLOC can communicate to non-LISP IPv6 interface users across IPv4 Internet, however , IPv4-only RLOC cannot communicate to non-LISP IPv4 Internet users across IPv6 Internet
- D. PETR supports transport of LISP-only traffic from one address to LISP sites in the same address family

Answer: A

NEW QUESTION 138

Which two options are characteristics of MoFRR? (Choose two)

- A. Uses additional PIM join toward source
- B. Based on multicast forward error correction feature
- C. Based on PIM Fast Route
- D. Requires MPLS TE FRR enabled with link protection and node protection
- E. Utilizes two equal-cost paths toward source

Answer: AE

NEW QUESTION 141

Which mechanism protects the control and management planes of a cisco IOS device to maintain routing stability, network reachability, and packet delivery?

- A. RTBH
- B. BGP Flow Spec
- C. MQC CLI
- D. CPPr
- E. NetFlow

Answer: D

NEW QUESTION 142

Which routing table is used by PEs and ASBRs to store all VPN routes that need to be exchanged in an Inter-AS L3VPN option B scenario?

- A. IGP table
- B. VRF routing table
- C. Global routing table
- D. BGP table

Answer: D

NEW QUESTION 145

An engineer is troubleshooting L3VPN traffic loss over the MPLS-enabled core network when new core links were enable. Assuming that the IGP is properly configured, which issue causes a temporary data flow blackholing when the IGP and LDP reconverges?

- A. MPLS-TE tunnels without LDP adjacencies are used over the new links black-holing the traffic before the LDP label exchange is completed
- B. MP-BGP sessions between PE and RR routers require extra time to reconverge than the underlying IGP
- C. IP packets are forwarded as soon as routes are learned over a new IGP adjancey before the label exchange happens over the new links
- D. LDP is a Layer 2 protocol forwarding Label packets before the IGP reconverged

Answer: C

NEW QUESTION 147

Which operational metric to measure the health of the incident management process is critical?

- A. A number of successful changes
- B. Number of incidents per severity level
- C. Mean time to restore service
- D. Mean time to resolve incidents

Answer: A

NEW QUESTION 148

```

ipv4 access-list FILTER1 10 permit tcp 10.10.10.0/24 any eq www
ipv4 access-list FILTER2 10 permit tcp 10.10.10.0/24 any eq smtp
!
class-map match-all TEST1
 match access-group ipv4 FILTER1
end-class-map
class-map match-all TEST2
 match access-group ipv4 FILTER2
end-class-map
policy-map POL1
 class TEST1
  bandwidth percent 10
  !
 class TEST2
  priority level 1
  police rate percent 10
  !
 class class-default
  !
end-policy-map
    
```

Refer to the exhibit, An engineer is asked to troubleshoot packet drops inside a network which option is true?

- A. HTTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the interface bandwidth
- B. However, if no congestion is present, no more bandwidth is allocated to HTTP traffic
- C. SMTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the bandwidth, however, if no congestion is present, more bandwidth is allocated to SMTP traffic
- D. SMTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the bandwidth
- E. However , if no congestion is present, SMTP traffic above 10% of link bandwidth is dropped
- F. HTTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the interface bandwidth
- G. However, if congestion is present, less bandwidth is allocated to HTTP traffic

Answer: C

NEW QUESTION 150

A content provider uses ISP-A and ISP-B for Internet transit service for the purpose of redundancy and load balancing. The content provider has one address range assigned to it. Which two techniques achieve the load balancing and redundancy for inbound traffic? (Choose two)

- A. BGP Local-preference attribute
- B. BGP MED attribute
- C. Use ISP-A for outbound traffic and ISP-B for inbound traffic
- D. BGP AS-prepend technique
- E. Address range split into two more specific prefixes, then advertise one specific prefix per ISP
- F. Aggregate all prefixes received from both ISPs into a less-specific prefix

Answer: DE

NEW QUESTION 151

A service provider is working to develop an evolving security technique toolset in regards to the increasing amount of attacks. In which scenario Backscatter Trace back solution is recommended?

- A. Rouge DNS/DHCP Servers
- B. Distribution Denial of service
- C. Ping of death
- D. IP Spoofing
- E. Network Attack TCP/UDP Scan

Answer: B

NEW QUESTION 155

A network has a single exit and is using a default route An operator is worried about denial of service at the network border Which unicastRPF check mode must the operator apply at the border for optimal protection?

- A. loose mode with allow self ping
- B. loose mode
- C. strict mode with allow-self-ping
- D. strict mode with allow -default option
- E. strict mode

Answer: E

NEW QUESTION 159

For the Cisco ASR 1000 Series, which module provides the physical and electrical terminal for the shared port

- A. SPA
- B. RP
- C. ESP
- D. SIP

Answer: A

NEW QUESTION 160

Which BGP feature improves the convergence and response time to adjacency changes with BGP neighbors?

- A. reducing BGP scanner timing to the minimum that is supported
- B. BGP Multihop
- C. Next-Hop Address Tracking
- D. Fast Peering Session Deactivation
- E. TTL Security Check

Answer: E

NEW QUESTION 163

A service provider is implementing an nV Edge system with the two ASR 9000 chassis has two RSPs. Which two cabling methods reflect the minimum configuration needed for full synchronization between the two Cisco ASR 9000 chassis? (Choose two)

- A. Create the single virtual control plane that connect the two RSPs between the two chassis via Layer 2 connections
- B. Create the IRL connections between the two chassis via Layer 3 connections using the EOBC 10 Gbps ports of the RSPs
- C. Create the IRL connections between the two chassis via Layer 3 connections using the ports of the line cards
- D. Create the single virtual control plane that connect the two chassis via Layer 3 connections using the 10 Gbps ports of the line cards
- E. Create the IRL connections between the two chassis via Layer 1 connections using the 10 Gbps ports of the line cards
- F. Create the single virtual control plane that connect the two chassis via 100 Gbps bundle interfaces
- G. Create the IRL connections between the two chassis via Layer 1 connections using the EOBC 10 Gbps ports of the RSPs

Answer: AE

NEW QUESTION 168

In order to validate update message that contain the BGPsec_path attribute, the recipient must be two pieces of data that are obtained from valid PPKI certifications and ROAs. Which are these two pieces of data? (Choose two)

- A. The public key infrastructure with the necessary certificate objects, the dig
- B. The OPEN BGP messages that is successfully negotiated between BGP speakers to use the new BGP attribute, the BGPsec_Path
- C. The exchanged certificate with internet Routing Registries using cryptographic identity management systems
- D. The AS number and the list of IP address prefix for each valid ROA
- E. The AS number, public key, and subject key identifier for each valid RPKI router certificate

Answer: DE

NEW QUESTION 172

Which OSPFv3 LSA is never Flooded beyond the link?

- A. Interarea router LSA
- B. Intra-area prefix LSA
- C. Link LSA
- D. Network LSA
- E. Router LSA

Answer: C

NEW QUESTION 174

Which protocol functions as the transfer protocol between the Cisco Open SDN Controller and forwarding devices?

- A. OSPF or IS-IS
- B. BGP-LS
- C. OpenFlow
- D. PCEP

Answer: C

NEW QUESTION 179

A service provider has the following VPLS requirements :

*A PE must learn dynamically remote PEs that are members of the same VPLS domain

*The VPLS signaling must be in a point-to-multipoint fashion way according to RFC 4761 (Kompella)

Which feature must be enabled to meet these requirements?

- A. RSVP signaling
- B. LDP signaling
- C. BGP signaling
- D. RSVP auto-discovery
- E. LDP auto-discovery

Answer: C

NEW QUESTION 180

Operations team must deploy Inter-Chassis Communication Protocol to provide high availability services to dual-homed CE nodes. On which nodes must the Inter-Chassis Communication Protocol be configured to meet this requirement?

- A. P nodes
- B. Metro Ethernet switches nodes
- C. CE nodes
- D. PE nodes

Answer: D

NEW QUESTION 183

An engineer is deploying SSHv2-only in-band access. Which three options reflect the minimum configuration to enable the SSHv2 services on Cisco routers? (Choose three)

- A. Define a domain name for the device
- B. Create crypto keys by using the crypto key generate dsa command
- C. Configure a key modules in the global configuration
- D. Add router hostname on DNS services
- E. Define a hostname for the device
- F. Create an access list that defines authorized hosts for SSH

Answer: ABE

NEW QUESTION 184

A NOC engineer is troubleshooting an issue on a customer's server that is connected to a switch port in the data center. The engineer has a packet analyzer that is connected to a test port in the NOC. A core network exists between the NOC and the data center

Which two configuration steps should the NOC engineer apply for the port in the NOC and the customer's switch port in the data center? (Choose Two)

- A. Configure ERSPAN between the NOC test port and customer's switch port
- B. Enable an MPLS pseudowire that is destined to the NOC and used by the mirrored customer traffic to cross network
- C. Enable GRE encapsulation that is destined to the NOC and supply by the mirrored customer traffic to cross the network
- D. Enable an MPLS TE tunnel that is destined to the NOC and used by the mirrored customer traffic to cross the core network
- E. Configure RSPAN between the NOC test port and customer's switch port

Answer: AC

NEW QUESTION 188

Which protocol provides an alternative to the STP, which provides a way to control network loops, handle link failures, and improve convergence time and can coexist with STP?

- A. PBB-EVPN
- B. IEEE 802.1ah
- C. Flex links
- D. E-TREE

E. REP

Answer: E

NEW QUESTION 189

An operations engineer identifies a device is receiving a section loss signal alarm for a SONET link. Which action does the engineer perform?

- A. Verify that the framing format on the port matches the format configured on the line
- B. Verify that the alarm exists on the remote site
- C. Verify that the light level for the POS interface is within acceptable limits
- D. Verify the line status at the remote end of the link

Answer: C

NEW QUESTION 193

A Layer 3 VPN customer opened a case that reports connectivity loss with remote sites. An operations engineer realized this connectivity loss happened after the LDP label filtering was applied. What is the root cause of this issue?

- A. Labels were not allocated for the PE , P and RR physical interfaces
- B. Labels were not allocated for the PE loopbacks
- C. Labels were not allocated for the CE loopback and physical interfaces
- D. Labels were not allocated for the P loopbacks
- E. Labels were not allocated for the PE, P , and RR loopbacks
- F. Labels were not allocated for the P and PE physical interfaces

Answer: B

NEW QUESTION 195

A network engineer configures redistribution of OSPF intra-area routes into MP-BGP (super backbone) to preserve the continuity of the OSPF design in an MPLS Layer 3 VPN scenario From the CE perspective, what is the effect?

- A. All intra-area routes are converted to external routes
- B. All interarea routes are lost
- C. All intra-area routes are converted to interarea routes
- D. AU intra-area routes are lost

Answer: C

NEW QUESTION 200

Which description is true about how remote IP fast Reroute addresses failures in the ring topologies?

- A. Routers establish a targeted LDP session with the furthest router that is in a PQ space, It requires an equal cost path to both edge ring routers
- B. Routers establish an MPLS TE tunnel with both ring edge routers
- C. Routers establish a targeted LDP session with the closest router that is in a PQ space
- D. Routers establish a GRE tunnel with the furthest PQ node in the ring
- E. Routers establish an MPLS TE tunnel with all PQ nodes in the ring
- F. Routers establish a GRE tunnel with the closest PQ node in the ring

Answer: C

NEW QUESTION 205

An engineer sees that traffic is not flowing between two line cards on an Cisco ASR 9000 Series device. To troubleshoot this issue, what should the engineer do first?

- A. Verify whether there are errors on the EOBCs
- B. Verify whether there are PFM alarms on the line cards and RSPs
- C. Verify whether LPTS configuration is prohibiting traffic between the two line cards
- D. Verify whether there are alarms in the system diagnostics

Answer: B

NEW QUESTION 208

A network engineer needs to connect two core switches that use Gigabit Ethernet interfaces in an MPLS backbone and that are separated by a distance of 60 km. Which Cisco GBIC achieves this goal?

- A. Cisco 1000BASE-T GBIC
- B. Cisco 1000BASE-SX GBIC
- C. Cisco 1000BASE-LX/LH GBIC
- D. Cisco 1000BASE-ZX GBIC

Answer: D

NEW QUESTION 209

In an NFV environment, what is the role of an SDN controller?

- A. Dynamically controls all of the software components
- B. Spins up the VMs that are required to build the NFVs
- C. Dynamically scales up and scales down VM resources
- D. Connects the virtualized networking devices through a common policy-based model

Answer: D

NEW QUESTION 210

Which option is the Cisco cloud management platform that is designed for enterprise and public sector IT organizations to help build private and hybrid clouds?

- A. Cisco Cloud Orchestrator
- B. Cisco UCS Director
- C. Cisco Intercloud Fabric
- D. Cisco Intelligent Automation for Cloud

Answer: D

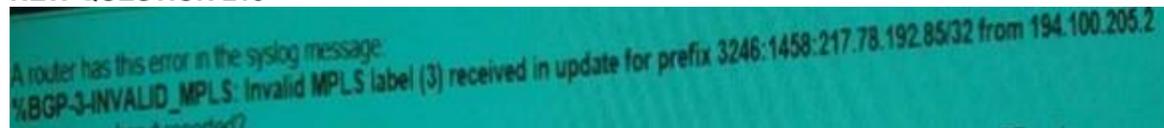
NEW QUESTION 214

IPv6 multicast is enabled in a VPLS domain. An operations engineer must reduce the multicast flooding in this VPLS domain. Which feature constrains IPv6 traffic at Layer 2 by configuring Layer 2 ports dynamically to forward IPv6 multicast traffic only to those ports that want to receive it?

- A. IGMP snooping
- B. MLD snooping
- C. MLD querier
- D. IGMP version 3
- E. MLD version 2

Answer: B

NEW QUESTION 219



A router has this error in the syslog message What issue has it reported ?

- A. The BGP label 3 can be used only in a BGP VPNv4 update for a directly connected VPNv4 prefix of the sending PE router
- B. The BGP label 3 can be used only in a BGP VPNv4 update for multicast address-family
- C. The BGP label 3 can be used only in a BGP VPNv4 update if the RD is 0:0
- D. The BGP label 3 can be used as a label for a VPNv4 prefix

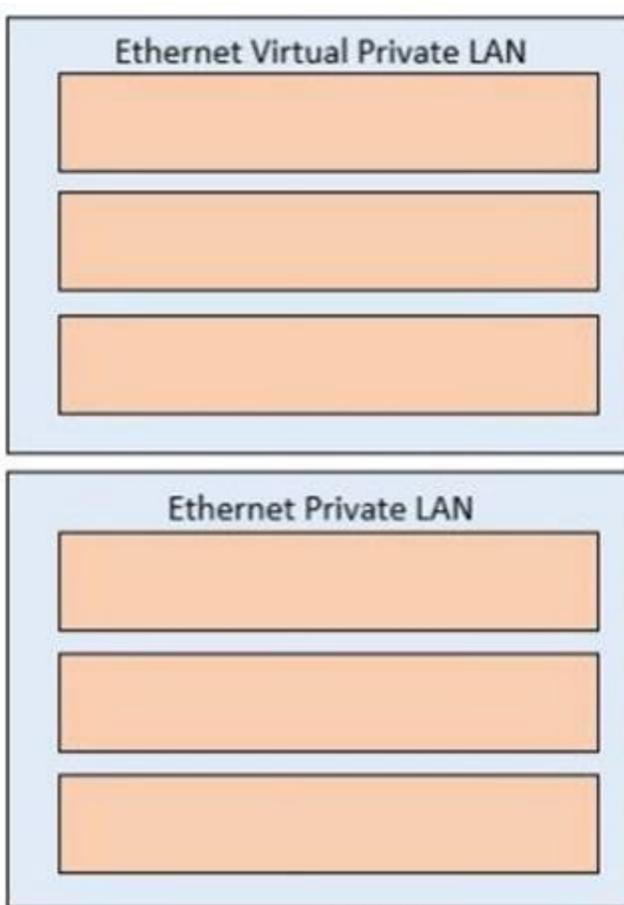
Answer: D

NEW QUESTION 221

DRAG DROP

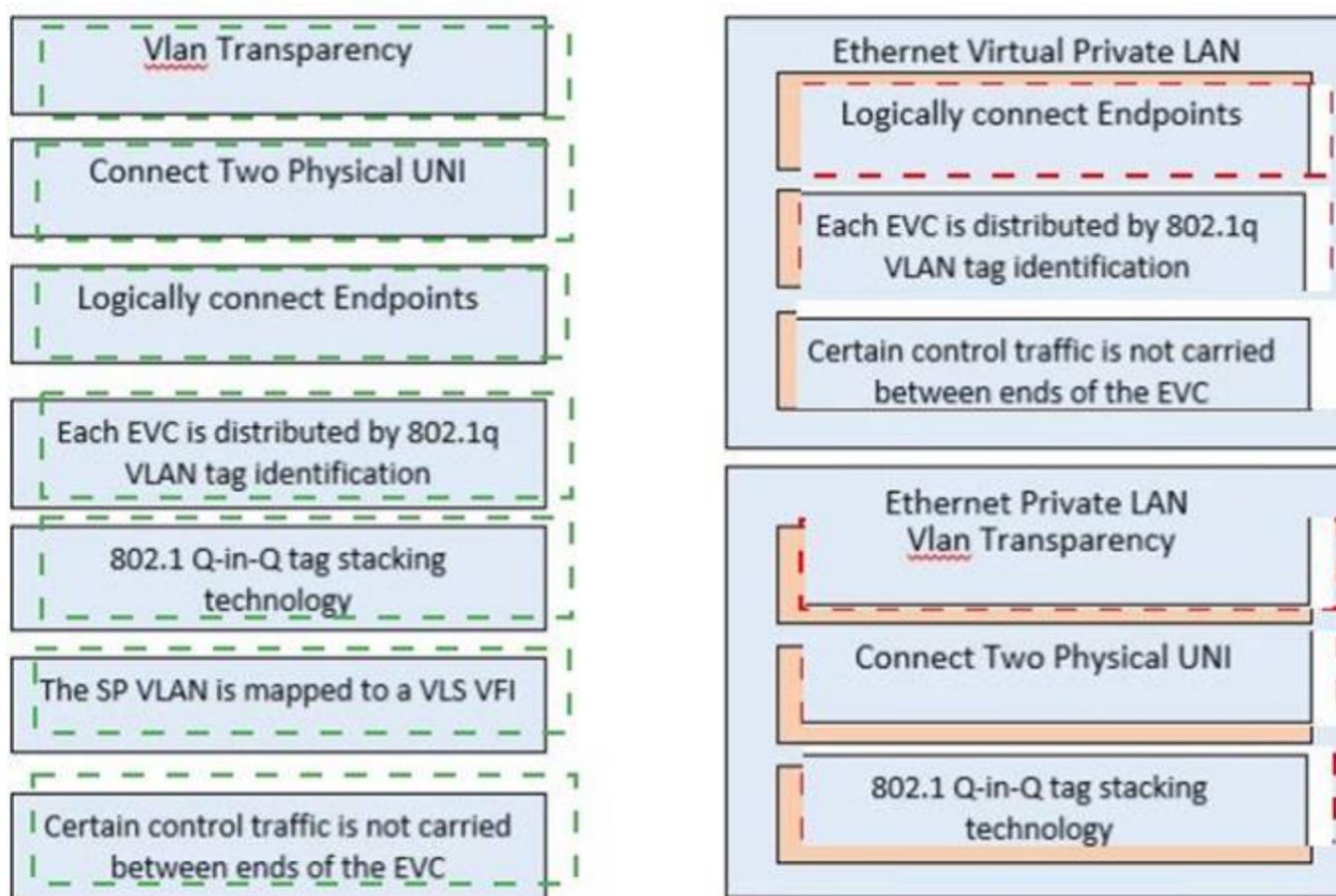
Drag and drop the Ethernet Virtual Circuit characteristics on the left onto the correct classification according to the current Metro Ethernet forum term on the right. Not all options are used.

- Vlan Transparency
- Connect Two Physical UNI
- Logically connect Endpoints
- Each EVC is distributed by 802.1q VLAN tag identification
- 802.1 Q-in-Q tag stacking technology
- The SP VLAN is mapped to a VLS VFI
- Certain control traffic is not carried between ends of the EVC



Answer:

Explanation:



NEW QUESTION 223

An operator enabled BFD in echo mode and now CPU is high. Which option is the most likely solution to the problem?

- A. Disable ICMP redirects on an interface
- B. Change from echo mode to asynchronous mode
- C. Disable BFD altogether
- D. Reduce the BFD packet rate
- E. Reduce the BFD control plane packet rate

Answer: A

NEW QUESTION 227

A service provider requires that the PE-CE link must be optimized by only compressing the TCP header regards to Business traffic policy neither voice traffic nor other traffic policies must be compressed. Which solution meets these requirements?

- A. header compression using IPHC profiles
- B. enhanced RTP header compression
- C. class-based TCP header compression
- D. RTP header compression over satellite links

Answer: C

NEW QUESTION 229

Which two components are shared across secure domain routers? (Choose two)

- A. Fabric
- B. CPU
- C. Memory
- D. Fans
- E. Forwarding engine

Answer: AD

NEW QUESTION 231

A service provider offers four classes of service for MPLS VPN customer with the following IPP/EXP values

- A. voice=5i
- B. video=4ii
- C. priority-data =3i
- D. best-effort data=0The service provider also supports multicast VPN services in the priority data and best- effort classe
- E. Multicast VPN is implemented as a draft-rosen profil
- F. On a P router, in the MPLS core, the ingres
- G. QoS policy-map must classify all incoming packets, so that different classes of traffic can be properly handled in fabric queues and egress queue
- H. All types of packets in the core network must be coveredWhich ingress classification offers the optimal performance and provides the minimum number of actions that match the service provider QoS requirements?A.class-map match-any VOICE match mpls experiment topmost 5 class-map match-any VIDEO match mpls experiment topmost 4 class-map match-any CONTROL match mpls experiment topmost 6 class-map match-any PRIORITY match mpls experimental

topmost 3!policy-map INGRESS class VOICEset qos-group 5 class VIDEO set qos-group 4class CONTROL set qos-group 6 class PRIORITY set qos-group 3 class class-default B.class-map match-any VOICE match mpls experiment topmost 5 class-map match-any VIDEO match mpls experiment topmost 4 class-map match-any CONTROL match mpls experiment topmost 6 7match ip precedence ipv4 internet network class-map match-any PRIORITYmatch mpls experimental topmost 3 match ip precedence ipv4 flash!policy-map INGRESSclass VOICE set qos-group 5 class VIDEO set qos-group 4class CONTROL set qos-group 6 class PRIORITY set qos-group 3 class class-default C.class-map match-any VOICE match mpls experiment topmost 5 match ip precedence ipv4 critical class-map match-any VIDEO match mpls experiment topmost 4match ip precedence ipv4 flash-override class-map match-any PRIORITYmatch mpls experimental topmost 3 match ip precedence ipv4 flash!policy-map INGRESS class VOICEset qos-group 5 class VIDEO set qos-group 4 class PRIORITY set qos-group 3class class-default

Answer: C

NEW QUESTION 232

Which ADSL implementation type involves configuring the ATU-R PPP authentication information (Login and Password), Which provides per sessions Authentication, Authorization, and Accounting without requiring PPP client on each PC on the subscriber Side?

- A. PPPoE
- B. PPPoA
- C. RFC 1483 Routing
- D. RFC 1483 Bridge

Answer: A

NEW QUESTION 235

Which three MPLS Traffic-eng DS-TE models are defined by IETF standard? (Choose three)

- A. GRDM
- B. MAR
- C. MAM
- D. RDM
- E. G-BAM
- F. A-RDM

Answer: BCD

NEW QUESTION 238

A regional operation center deployed SQL servers that were synchronized with the company's backend storage servers by using a 768 Kbps link. Although network congestion is not a frequent issue, the VoIP service suffers a serious degradation. Which two technologies can be implemented to improve the quality of the customer's VoIP traffic? (Choose two)

- A. A decrease in the wan interface buffer size
- B. LLQ for management traffic
- C. cRTP
- D. TCP/UDP filtering based on NBAR
- E. TCP traffic prioritization
- F. LFI
- G. TCP starvation

Answer: CF

NEW QUESTION 239

Which two flexible service mapping features that are used on the ES40 line card can classify traffic into different service instances, in order to consume fewer VLANs? (Choose two.)

- A. CoS
- B. DSCP
- C. IP precedence
- D. MPLS experimental bit
- E. ToS
- F. Ether Type

Answer: AF

NEW QUESTION 241

Which two components does the LDP use to discover neighbors on a network segment? (Choose two)

- A. 224.0.0.14 multicast address
- B. 224.0.0.1 multicast address
- C. 224.0.0.2 multicast address
- D. 711 tcp port
- E. 646 udp port
- F. 711 udp port
- G. 646 tcp port

Answer: CE

NEW QUESTION 245

In a segment routing-enabled network, which two protocols perform label distribution? (Choose two)

- A. IS-IS
- B. LDP
- C. BGP
- D. OSPF
- E. RSVP-TE

Answer: AD

NEW QUESTION 250

A service provider is considering investing in a services chaining solution. Which three services chaining's can be recommended? (Choose two)

- A. Firewall
- B. Authoritative DNS
- C. ACGNAT
- D. WAAS
- E. VXLA
- F. Email

Answer: AC

NEW QUESTION 251

Which open source cloud computing platform uses the neutron project as a networking as a service between devices like cisco nexus, cisco APIC cisco CSR 1000v and cisco UCS?

- A. Ansible
- B. Openstack
- C. Cisco UCS director
- D. Opendaylight

Answer: B

NEW QUESTION 255

Which two MVPN profile use either PIM or BGP-AD to advertise the Data-MDT? (Choose two)

- A. Profile 0 : Rosen GRE
- B. Profile 5 : MS-PMSI (Partition) MLDP P2MP with BGP-AD
- C. Profile 3 : Rosen GRE with BGP-AD
- D. Profile 4 : MS-PMSI (Partition) MLDP P2MP with BGP-AD
- E. Profile 9 : Rosen MLDP with BGP-AD
- F. Profile 1 : Rosen MLDP

Answer: CE

NEW QUESTION 259

A backbone carrier is approached by an ISP_A which provides L3VPN services. The ISP_A requires MPLS VPN services from the backbone carrier to establish connectivity between the two POPs of the ISP_A. Which label protocol should the backbone carrier use to provide the proper connectivity that the ISP_A requires?

- A. L2TPv3
- B. L2TPv2
- C. LDP
- D. GRE
- E. mGRE
- F. BGP

Answer: A

NEW QUESTION 264

A network engineer has a requirement to configure IP flow exporting using standard protocols on a cisco IOS XE device. Which configuration achieves this goal?

- A.
flow exporter EXPORTER destination 10.1.1.1
export-protocol version 9
transport udp 90
- B.
flow exporter EXPORTER destination 10.1.1.1
source Loopback 0
transport udp 90
- C.
flow exporter EXPORTER destination 10.1.1.1
source Loopback 0
transport udp 90 version ipfix
- D.
flow exporter EXPORTER destination 10.1.1.1
export-protocol ipfix transport udp 90

Answer:

NEW QUESTION 266

Refer to the exhibit. In regard to the traffic that is flowing from CE1 in the direction of CE2, what is the label stack in the packets that are leaving R6?

- A. {16}
- B. {16 25}
- C. {25}
- D. {0 25}

Answer: D

NEW QUESTION 269

Which controller uses policy-based application profiles?

- A. OpenStack
- B. Cisco Open SDN controller
- C. OpenFlow Controller
- D. Cisco APIC
- E. Cisco UCS director

Answer: D

NEW QUESTION 274

Which component does NSF rely on to ensure that interfaces remain up during switchover and that lower layer protocol state is maintained?

- A. SSO
- B. BFD
- C. IP FRR
- D. LFA

Answer: A

NEW QUESTION 275

What are the four key design requirements for mobile IP backhaul? (Choose four)

- A. X2 interface turning point
- B. bandwidth
- C. Layer 2 Tunneling
- D. native IPv6 support
- E. DiffServQoS
- F. MPLS-enabled interface
- G. network timing distribution and recovery
- H. mandatory Layer 3 access up to a cell site

Answer: CDGH

NEW QUESTION 276

An engineer is configuring an Embedded Packet Capture. Which two limitations must the engineer be aware of? (Choose two)

- A. EPC captures only multicast packets on ingress and does not capture the replicated packets on egress
- B. Existing EPC features can be supported on Cisco IOS and not on Cisco IOS-XR devices
- C. On Cisco IOS and Cisco IOS XE, the packet buffer is stored in DRAM and persists through reloads
- D. On Cisco IOS and Cisco IOS XE, the capture configuration is not stored in NVRAM and does not persist through reloads
- E. To limit the capture to desired traffic in EPC, control plane policing, access lists, and NBAR can be used

Answer: AD

NEW QUESTION 280

Which technology enables operations to move the functionality of networking devices such as routers and firewalls away from proprietary hardware to servers and off-the-shelf commercially available purpose-built hardware?

- A. Network Function Virtualization
- B. Business support systems
- C. Software Defined Networking
- D. Operations support systems
- E. OpenStack

Answer: A

NEW QUESTION 284

In IEEE 802.1ad deployments, which three represent valid port modes? (Choose three)

- A. UNI C-port
- B. NNI untagged
- C. NNI S-port
- D. UNI untagged
- E. NNI C-port
- F. NNI

- G. UNI S-port
- H. UNI T-port

Answer: AFG

NEW QUESTION 285

An engineer is connecting a new 10-Gbps Ethernet link. Which type of transceiver must the Engineer purchase that is the current industry standard?

- A. GBIC
- B. XFP
- C. X2
- D. SFP

Answer: B

NEW QUESTION 289

In the MC-LAG environment, which two statements about clustering HA are true?

- A. Public connection is used to access the active node of cluster from the outside cluster
- B. Private connection is used to connect the nodes of the cluster for private communication
- C. Private connection is used to access the active node of cluster from the outside cluster
- D. Public connection is used to connect the nodes of cluster for private communication
- E. Public connection is used to monitor the health and status of each node in the HA cluster using the heartbeat system

Answer: AB

NEW QUESTION 292

Which two restrictions of the trunk EFP are true? (Choose two)

- A. A bridge-domain number that is part of trunk EFP configuration can be shared only by other EFP if under the same port or interface
- B. Features about encapsulations specification are not supported
- C. Only one trunk port EFP can be configured under one port or interface
- D. Features that requires VLAN-specific values must be removed from the EFP trunk to from individual EFPs
- E. It supports only static EFPs that are user-configurable

Answer: CD

NEW QUESTION 294

Which three configuration sections are required on service provider PE router to enable IPv4 layer 3 VPN? (Choose three)

- A. Configure route targets that are used for importing and exporting customer VRF routes.
- B. Configure route distinguisher that is used for importing and exporting customer VRF routes.
- C. Implement MPLS for all customer-facing links.
- D. Configure the VPNv4 address-family under the MP-BGP configuration mode on the PE routers that participate in the customer VRF routing.
- E. Configure at least one interface that is assigned to a customer link as a member of the VRF
- F. Advertise customer route to all PE router by configure the IPv4 address-family under the MP-BGP configuration mode.

Answer: ADE

NEW QUESTION 298

What is the routing paradigm in a segment routing-enabled network?

- A. Destination-based routing
- B. Source, destination and layer 4 port routing paradiagram
- C. Source-based and destination-based routing
- D. Source-based routing

Answer: D

NEW QUESTION 302

A network operator is designing a BGP traffic engineering policy that uses the MED attribute to influence outbound traffic. This policy prefers routes that are received from upstream peers with a lower MED. All other higher preference BGP attributes values are equal. Which Cisco IOS BGP command enables this functionality?

- A. Bgp always-compare-med
- B. Bgp bestpath med-confed
- C. Bgp deterministic-med
- D. Bgp bestpath med missing-as-worst

Answer: A

NEW QUESTION 304

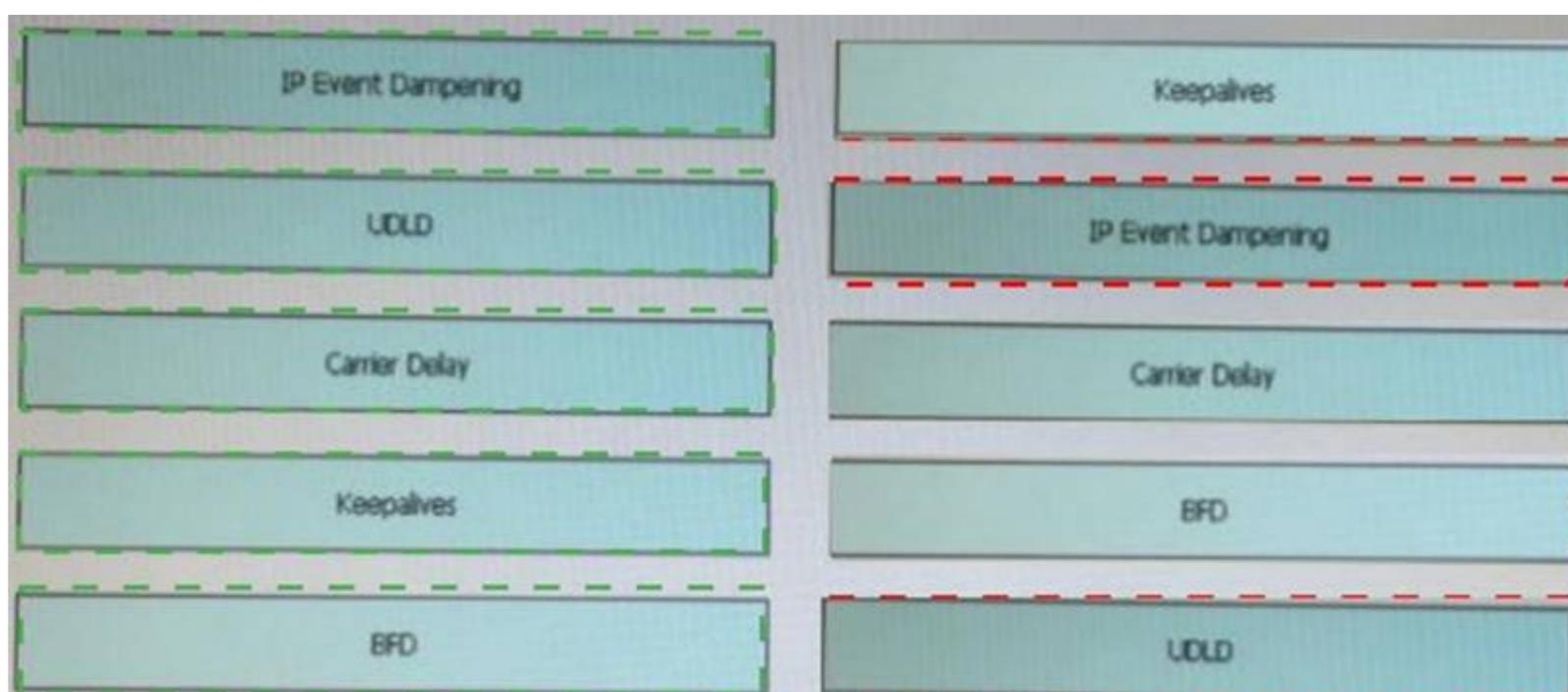
DRAG DROP

Drag and drop each fast detection mechanism on the left to its definition on the right.

IP Event Dampening	verify the integrity of the wire
UDLD	prevent impact from a constantly bouncing interface
Carrier Delay	prevent impact from a very small interface state flaps
Keepalives	provides fast peer failure detection independently of all media types and encapsulation technologies
BFD	detect when traffic is received by its neighbor but traffic from the neighbor is not received by the local device

Answer:

Explanation:



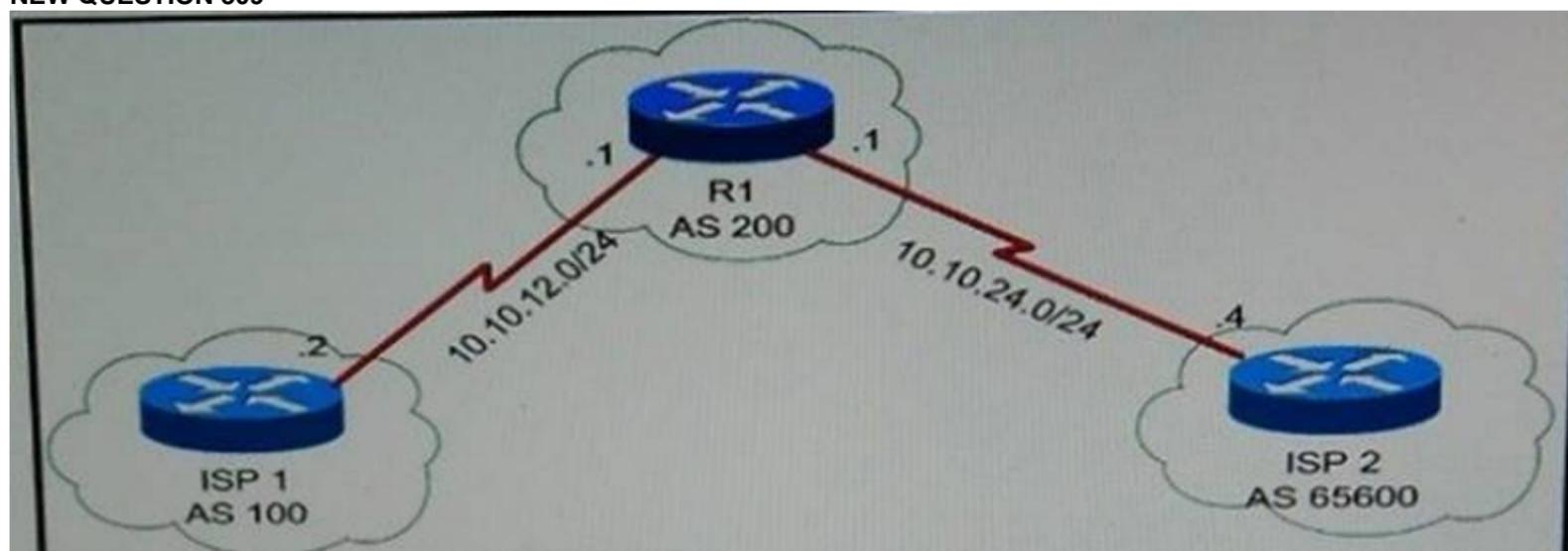
NEW QUESTION 305

Which Cisco IOS XR Virtualization technology provides full isolation between virtualized routing instances for extra control plane resources?

- A. HVR
- B. SVR
- C. SDR
- D. DRP

Answer: C

NEW QUESTION 309



Refer to the exhibit R1 is migrating from ISP 1 to ISP 2. The R1 ISO image does not support the 4-byte AS feature. Which configuration on R1 can establish this EBGP session?

- A. Router bgp 200Neighbor 10.10.24.4 local-as-65600
- B. Router bgp 200Neighbor 10.10.24.4 remote-as 23456
- C. Router bgp 200Neighbor 10.10.24.4 remote-as 65600
- D. Router bgp 200Neighbor 10.10.24.4 local-as-23456

Answer: B

NEW QUESTION 310

In which way does SyncE propagate the clocking information in synchronous mode over an Ethernet link?

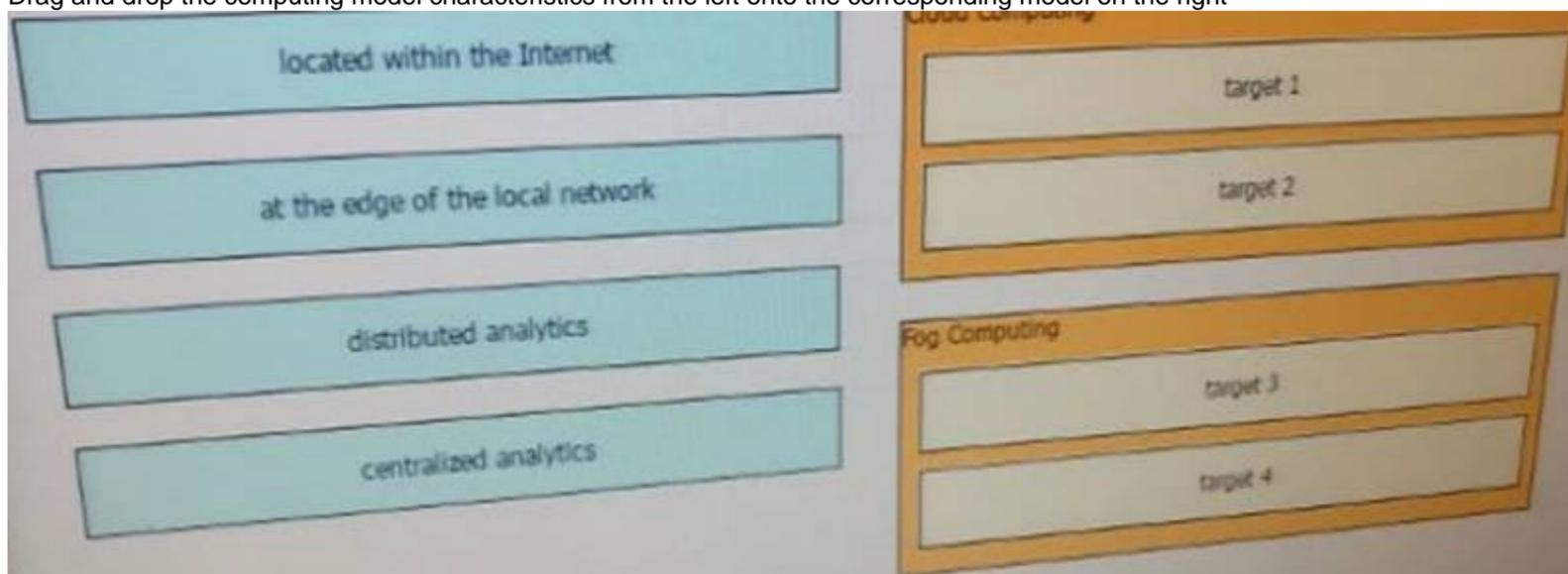
- A. It encodes the clock information into IEEE 1588v2 packets
- B. It uses the communication channel conveying the clock information that is called SSM
- C. It uses dedicated ESMC frames that are sent at regular intervals
- D. It uses Layer 2 multicast frames that are sent to 01:00:5E:00:01:01

Answer: B

NEW QUESTION 313

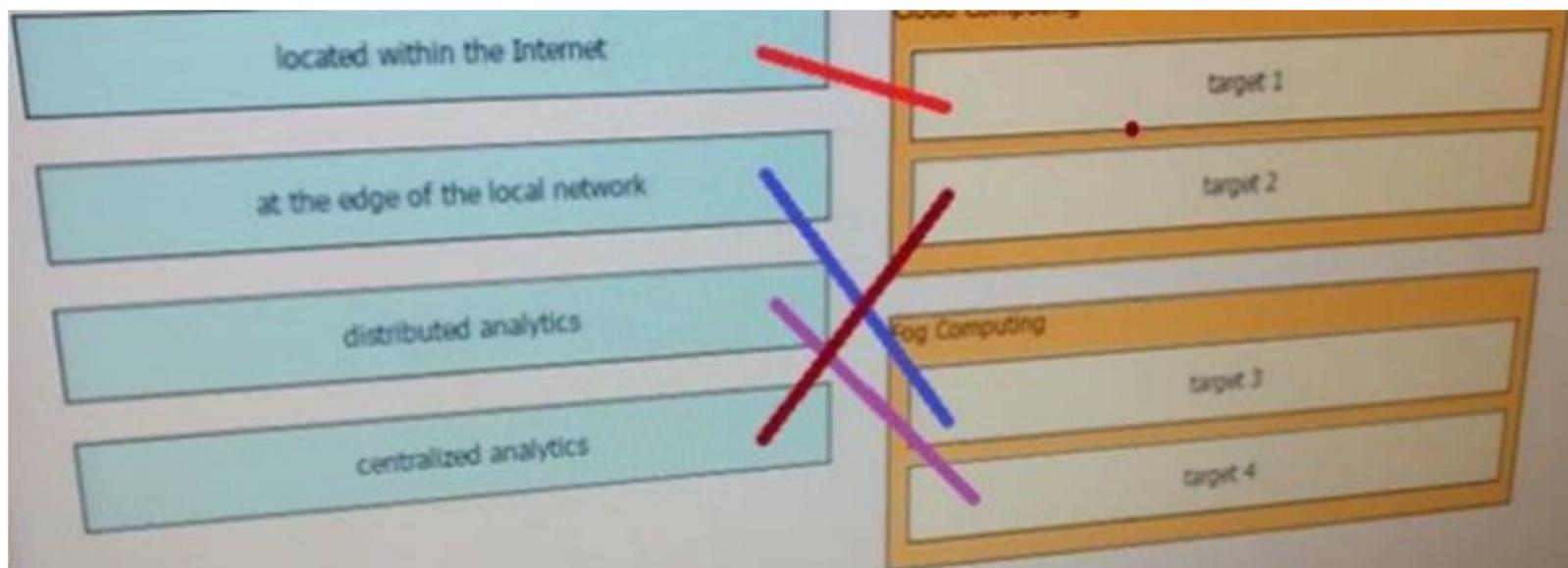
DRAG DROP

Drag and drop the computing model characteristics from the left onto the corresponding model on the right



Answer:

Explanation:



NEW QUESTION 314

DRAG DROP

Drag and drop the BGP path attributes description on the left onto the correct BGP path attribute classification on the right



Answer:

Explanation:



NEW QUESTION 319

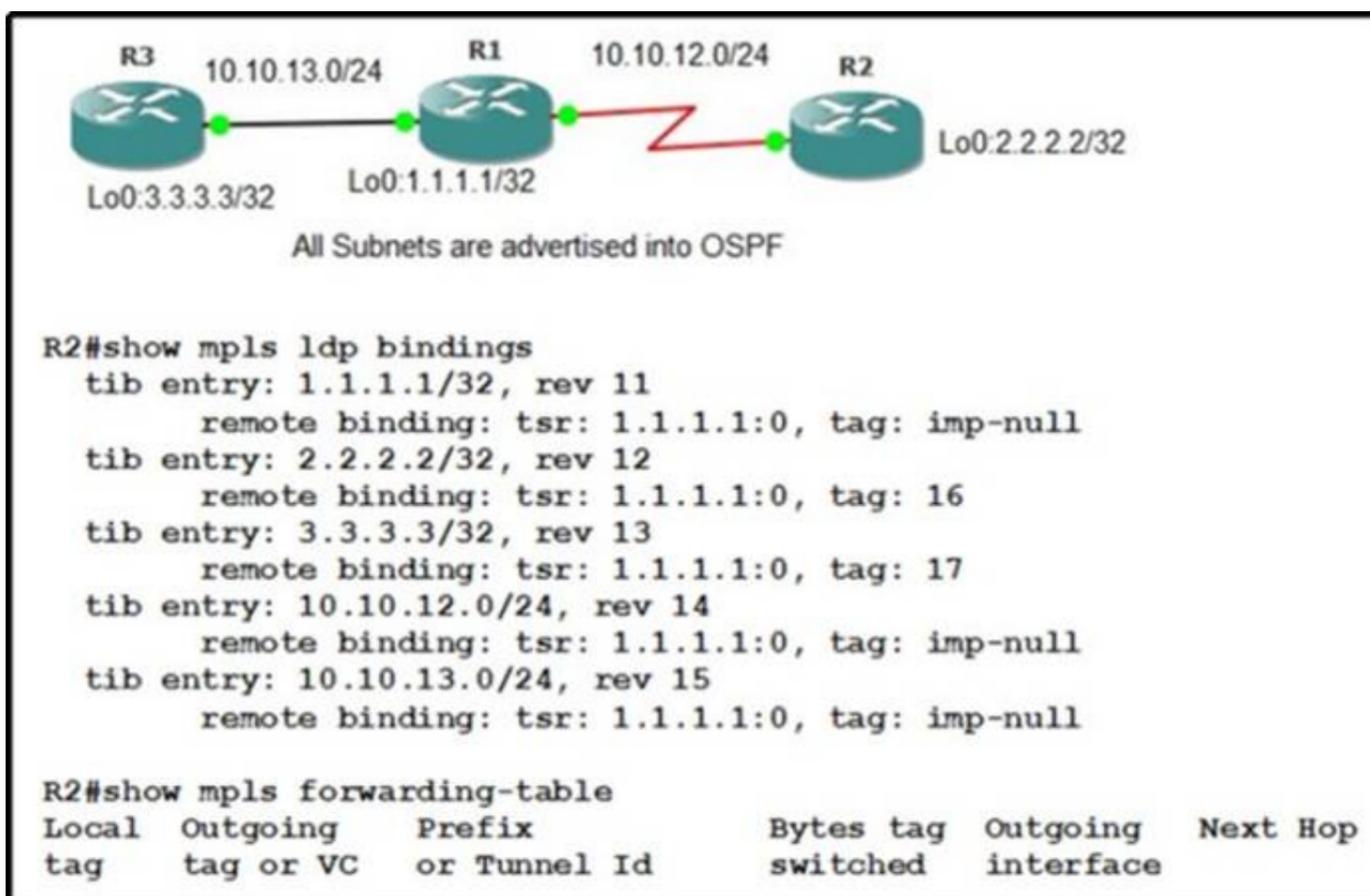
Which statement is FALSE concerning the interleave depth value?

- A. A higher interleave depth provides more protection from burst of noise on the HFC network
- B. Higher interleave depth increase downstream latency.
- C. Lower interleave depth cause some packet loss on typical HFC networks
- D. None of the above

Answer: D

NEW QUESTION 321

Refer to the exhibit.



Routers R1 and R2 have exchanged label binding information. What is preventing the labels from populating the MPLS forwarding table?

- A. MTU on the serial interface cannot accommodate labels.
- B. Cisco Express Forwarding is not running.
- C. The MPLS label distribution protocol is mismatched.
- D. Inbound access list 100 is applied on the serial interface.

Answer: B

NEW QUESTION 323

A backbone carrier is approached by an ISP_A which provides L3VPN services. The ISP_A requires MPLS VPN services from the backbone carrier to establish connectivity between the two POPs of the ISP_A Which label protocol should the backbone carrier use to provide the proper connectivity that the ISP_A requires?

- A. L2TPv3
- B. L2TPv2
- C. LDP
- D. GRE
- E. mGRE
- F. BGP

Answer: C

NEW QUESTION 325

A network engineer wants to deploy a VPLS service within the MPLS backbone. The backbone expert team advises that LDP for signaling is used. Which two characteristics of LDP would influence their decision? (Choose two.)

- A. BGP does not need to be run on the PE device.
- B. Non-convergence with IP VPN operation.
- C. There is no autodiscovery.
- D. LDP signaling requires a loopback-based router ID.
- E. CDP is not required on the PE routers.

Answer: AC

NEW QUESTION 326

In Ethernet Aggregation applications, which option is needed when the U-PE connects to an N-PE and broadband remote access server?

- A. Ethernet Multipoint Service
- B. E1
- C. VPLS
- D. DSLAM
- E. wire emulation

Answer: D

NEW QUESTION 328

A security risk has been discovered on the Service Provider MPLS core network during a network audit. Traceroute between the customer sites displays IP addresses of the Service Provider MPLS core. What should be done to hide the IP addresses of the Service Provider MPLS core from the customer traceroute utility?

- A. Configure an access list to block traceroute traffic.

- B. Apply the no mpls ip propagate-ttl forward command.
- C. Enable MPLS LDP session protection.
- D. Configure an LDP label allocation filter.
- E. Apply the no mpls ip propagate-ttl local command.

Answer: B

NEW QUESTION 329

A service provider has a requirement to prevent and prevent spoofing attacks by verifying the reachability of the sources address in a packet that is forwarded into its network. Which method must be the service provider use?

- A. CoPP
- B. iACL
- C. uRPF
- D. RTBH

Answer: C

NEW QUESTION 331

Which two options describe the order of preference of attributes when some or all are applied to one neighbor in BGP? (Choose two.)

- A. For inbound updates, the order of preference is route-map, filter-list, prefix-list, distribute-list.
- B. For inbound updates, the order of preference is filter-list, route-map, prefix-list, distribute-list.
- C. For inbound updates, the order of preference is prefix-list, route-map, filter-list, distribute-list.
- D. For outbound updates, the order of preference is filter-list, prefix-list, distribute-list, route- map.
- E. For outbound updates, the order of preference is prefix-list, distribute-list, filter-list, route- map.
- F. For outbound updates, the order of preference is route-map, prefix-list, distribute-list, filter-list.

Answer: AE

NEW QUESTION 332

In optical transmission systems, chirped lasers are used for the purpose of:

- A. Turning the laser to a specific ITU channel
- B. Keeping the signal wavelength "locked" to a specific technology
- C. Suppressing FWM and SBS non-linear effects
- D. None of the above

Answer: D

NEW QUESTION 333

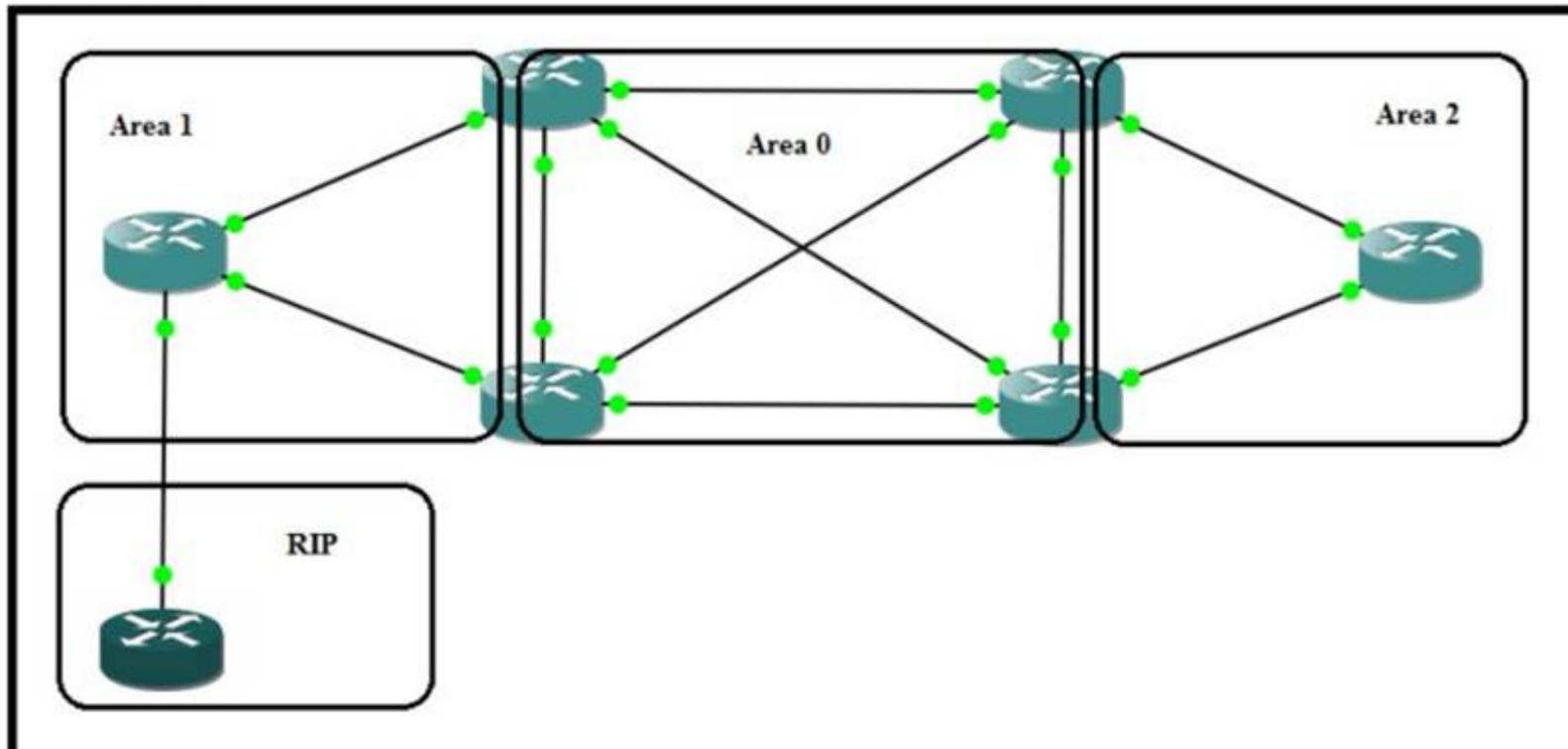
What is the maximum capacity of a single Cisco CRS-1?

- A. 64 Tb/s
- B. 78 Tb/s
- C. 92 Tb/s
- D. 106 Tb/s
- E. 128 Tb/s

Answer: C

NEW QUESTION 335

Refer to the exhibit.



RIP network 192.168.1.0/24 is redistributed in OSPF Area 1; both Area 1 and Area 2 are configured as NSSAs.

Which three statements describe the OSPF behavior in this scenario? (Choose three.)

- A. Area 2 does not see the network 192.168.1.0/24 in its link-state database.
- B. Network 192.168.1.0/24 is advertised in a Type 7 LSA in Area 1.
- C. Network 192.168.1.0/24 is advertised in a Type 5 LSA in Area 0.
- D. Network 192.168.1.0/24 is advertised in a Type 7 LSA in Area 0.
- E. ABR between Area 0 and Area 2 converts network 192.168.1.0/24 to a Type 7 LSA.
- F. Network 192.168.1.0/24 is advertised in a Type 5 LSA in Area 2.

Answer: ABC

NEW QUESTION 337

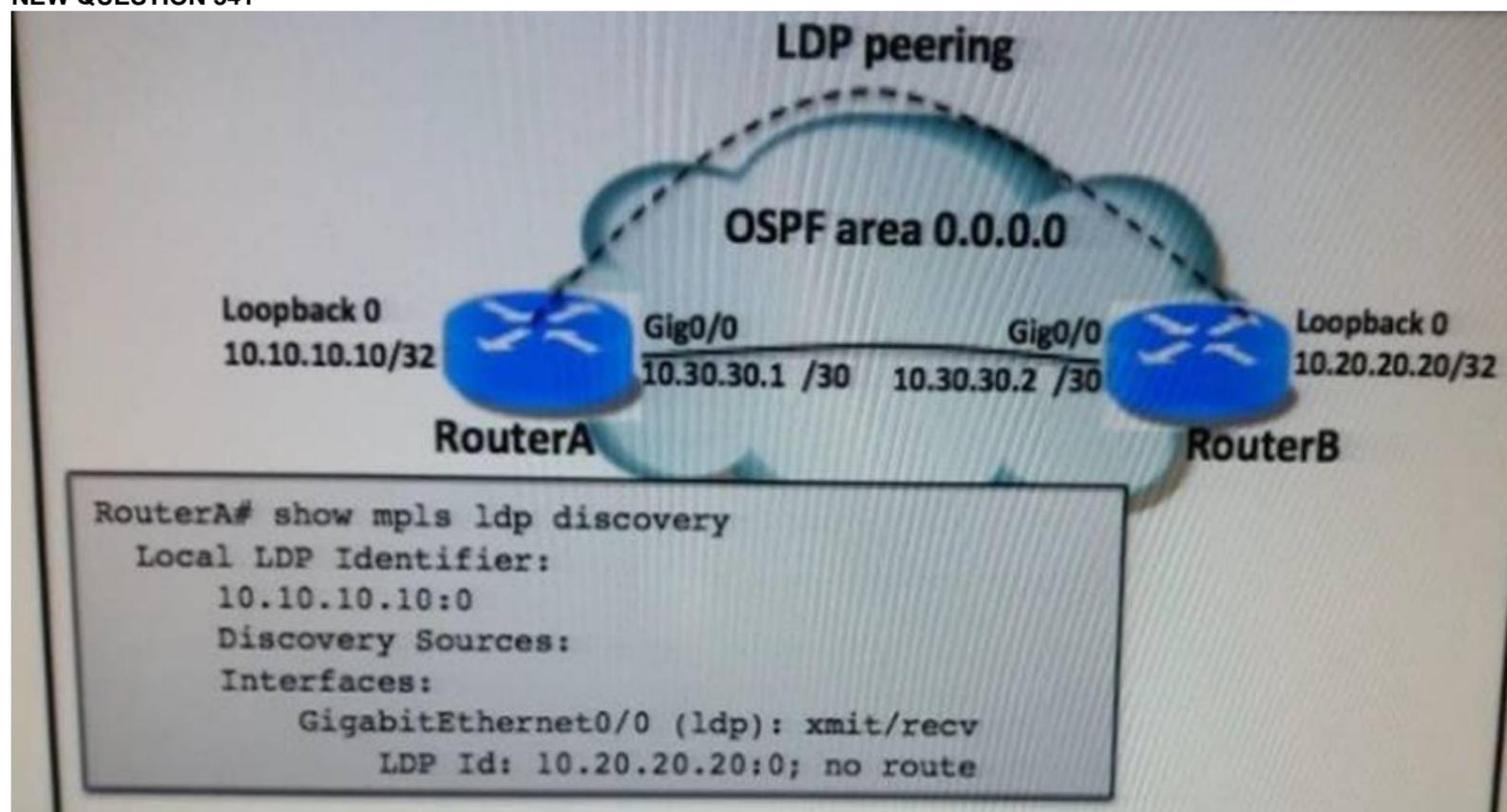


Refer to the Exhibit, R1 and R5 router are not directly connected loopback 0 is configured as LDP router-id for both R1 and R5 router loopback IPV4 address are reachable between R1 and R5 router. The LDP session between R1 and R5 is not established. There is no access-list applied any router in the path between R1 and R5, which is the reason the LDP session is not working?

- A. The LDP ID must be the physical interface of the interface tunnel between the LDP neighbor
- B. R5 is not configured to accept targeted LDP sessions
- C. Targeted LDP works only for directly connected LDP neighbors
- D. LDP authentication is missing on both R1 and R5

Answer: B

NEW QUESTION 341



Refer to the exhibit. Router A is not receiving any label information from Router B. Which two different solutions could fix this issues? (Choose two)

- A. C:\Users\tgt\Desktop\Data\Untitled.jpg
- B. C:\Users\tgt\Desktop\Data\Untitled.jpg
- C. C:\Users\tgt\Desktop\Data\Untitled.jpg
- D. C:\Users\tgt\Desktop\Data\Untitled.jpg
- E. C:\Users\tgt\Desktop\Data\Untitled.jpg
- F. C:\Users\tgt\Desktop\Data\Untitled.jpg
- G. Option A
- H. Option B
- I. Option C
- J. Option D
- K. Option E
- L. Option F

Answer: DF

NEW QUESTION 345

Which type of mVPN core tree does the Rosen mLDP profile use to signal individual P2MP LSP that are mapped to SGs?

- A. S-PMSI
- B. MS-PMSI
- C. partitioned MDT
- D. MI-PMSI

Answer: D

NEW QUESTION 349

DRAG DROP

Drag and drop the BGP AS configuration or route-reflector characteristic from the left onto the correct scalability topic on the right

Answer:

Explanation:

	Confederation	Route Reflector
loop prevention	AS confederation set	originator or cluster ID
break up a single AS	Sub-AS	clusters
redundancy	multiple connections between sub-AS	clients that connects to several reflectors
multilevel hierarchy	Reflectors within sub-AS	hierarchical clusters

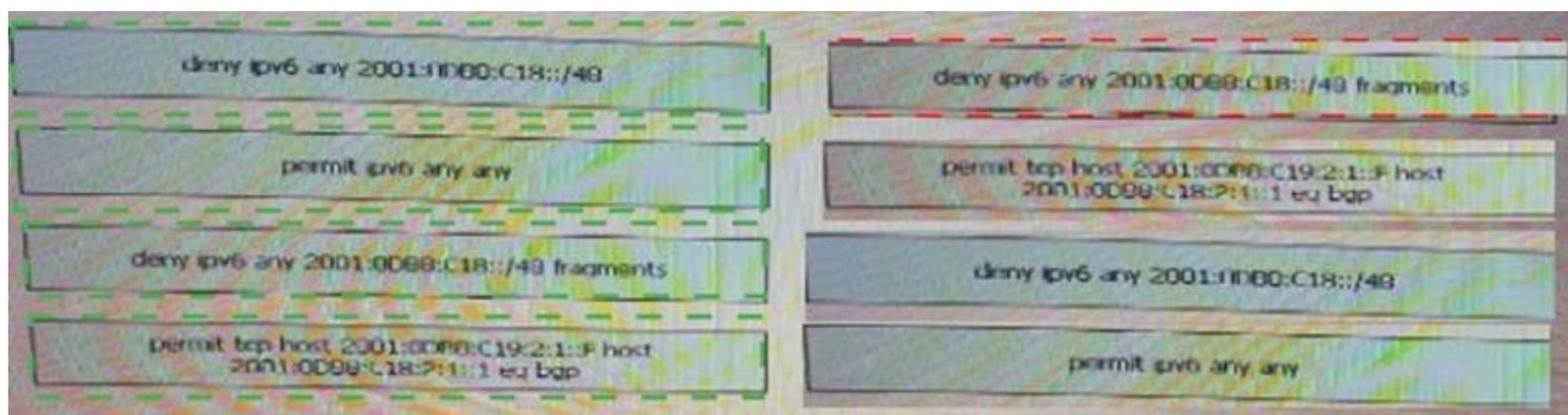
NEW QUESTION 353

DRAG DROP

An ISP requires an infrastructure ACL protection on a router. Drag and drop each IACL entry on the left onto its logical order on the right?

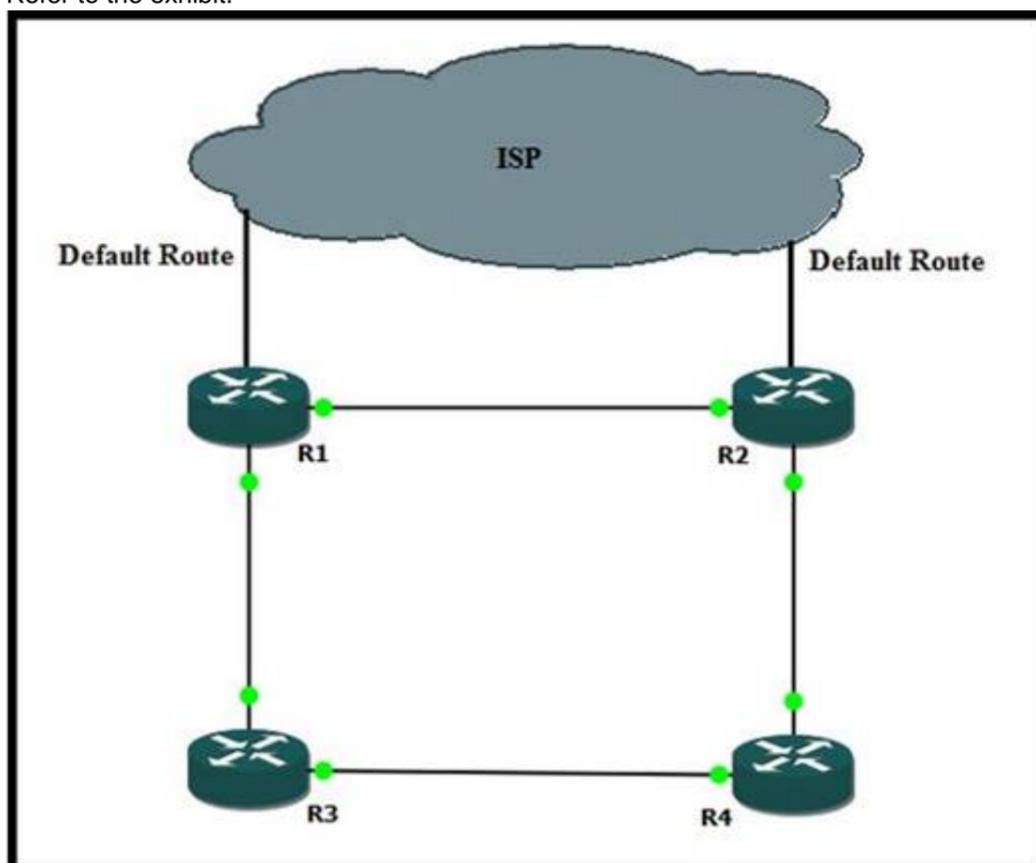
Answer:

Explanation:



NEW QUESTION 356

Refer to the exhibit.



R1 and R2 have a static default route that is configured to point toward the ISP. Both R1 and R2 routers redistribute the default route into OSPF. R2 is the primary gateway toward the ISP and R1 is the backup gateway. All link metrics are the same. Which two steps ensure that traffic to the ISP flows through R2 when the network works properly? (Choose two.)

- A. Modify the preference value of the default route on R1 so that it is less preferred than OSPF external routes.
- B. Modify the preference value of the default route on R2 so that it is less preferred than OSPF external routes.
- C. Redistribute the default route as a type 1 external route on R1 and a type 2 external route on R2.
- D. Redistribute the default route as a type 2 external route on R1 and a type 1 external route on R2.
- E. Redistribute the default route on R1 with a higher metric than the existing metric of the distributed default route on R2.

Answer: AD

NEW QUESTION 358

Which Cisco IOS XR security component can protect the route processor of the Cisco CRS router?

- A. Receive ACL
- B. Interface ACL
- C. Local Packet Transport Services
- D. Control Plane Policing

Answer: C

NEW QUESTION 360

DRAG DROP

Drag the command on the left to the correct step on the right to perform VPLS configuration on a Cisco IOS-XR router.

vfi name	Step 1
interface name	Step 2
bridge domain name	Step 3
bridge group name	Step 4
neighbor IP-address pw-id value	Step 5
I2vpn	Step 6

Answer:

Explanation:

Drag the command on the left to the correct step on the right to perform VPLS configuration on a Cisco IOS-XR router.

vfi name	I2vpn
interface name	bridge group name
bridge domain name	bridge domain name
bridge group name	interface name
neighbor IP-address pw-id value	vfi name
I2vpn	neighbor IP-address pw-id value

NEW QUESTION 363

DRAG DROP

According to the Broadband TR-101 specification, drag and drop the connectivity models on the right onto the correct characteristic on the left

nontrunk UNI VLAN model	the residential subscribers VDSL bridged or routed CPD devices are connected with trunk UNIs
trunk UNI, N:1 VLAN model	maps all subscriber services aggregated by the access node in a shared VLAN
trunk UNI, 1:1 VLAN model	uses each virtual circuit or VLAN on the UNI to map a certain service or group of services
noncompliant access nodes	uses different virtual circuit or VLAN for mapping to Internet access while shared VLAN is used for IPTV

Answer:

Explanation:

nontrunk UNI VLAN model	the residential subscribers VDSL bridged or routed CPD devices are connected with trunk UNIs
trunk UNI, N:1 VLAN model	maps all subscriber services aggregated by the access node in a shared VLAN
trunk UNI, 1:1 VLAN model	uses each virtual circuit or VLAN on the UNI to map a certain service or group of services
noncompliant access nodes	uses different virtual circuit or VLAN for mapping to Internet access while shared VLAN is used for IPTV

NEW QUESTION 364

```

CE#
ip prefix-list ROUTES_TO_SP seq 5 deny 10.1.1.0/24 le 32
ip prefix-list ROUTES_TO_SP seq 10 permit 10.1.1.128/25 le 32
!
ip route 10.1.1.64 255.255.255.240 null 0
!
router bgp 65000
 network 10.1.1.64 mask 255.255.255.240
 neighbor 10.10.12.1 remote-as 65001
 neighbor 10.10.12.1 prefix-list ROUTES_TO_SP out
  
```

Refer to the exhibit. The prefix 10.1.1.64/28 should be advertised to the PE router, yet the prefix is not being received by the PE. Which configuration should be applied on CE in order to fix this issue?

- A. ip prefix-list ROUTES_TO_SP seq 1 permit 10.1.1.64/28
- B. router bgp 65000no network 10.1.1.64 mask 255.255.255.240network 10.1.1.128 mask 255.255.255.128
- C. ip prefix-list ROUTES_TO_SP permit 10.1.1.64/28
- D. router bgp 65000no network 10.1.1.64 mask 255.255.255.240network 10.1.1.0 mask 255.255.255.0

Answer: A

NEW QUESTION 367

Which IGP feature designates a subnet of ip prefixes for fast processing and installation in the global routing table to achieve fast convergence

- A. Partial route computation
- B. Incremental SPF calculations
- C. Turning LSA timers
- D. SPF prefix prioritization

Answer: D

NEW QUESTION 372

```

Router A:
configure
 interface pos 0/3/0/0
   pos crc 32
   ipv4 address 10.1.1.1/30
   mtu 5550
   no shut
end

Router B:
configure
 interface pos 0/3/0/0
   encapsulation ppp
   ipv4 address 10.1.1.2/30
   keepalive 3
   no shut
end
  
```

Refer to the exhibit. A network engineer is troubleshooting a packet over SONET connection between Router A and Router B. What is causing the line protocol to be down?

- A. The keepalive must be set on both sides
- B. The POS CRC must be set on both sides.
- C. There is an encapsulation mismatch

D. There is an MTU mismatch.

Answer: C

NEW QUESTION 373

Two OSPF neighbor routers are stuck in the EXSTART state. After a while, the neighborship goes down. A network engineer is debugging the issue when both routers show the OSPF log message "too many retransmissions." What is the possible root cause?

- A. OSPF area mismatch
- B. OSPF hello-interval mismatch
- C. interface MTU mismatch
- D. interface network type mismatch

Answer: C

NEW QUESTION 374

In a Service provider network , a NOC engineer identifies and interface that flaps continuously. This interface connects to an EBGP peer. Which feature can reduce this instability on the service provider network?

- A. BGP PIC
- B. IP event Dampening
- C. IGP Prefix Prioritization
- D. Non-stop Forwarding

Answer: B

NEW QUESTION 375

VoIP bearer traffic is typically marked to which DSCP value?

- A. af41
- B. af31
- C. 0 (default)
- D. cs7
- E. cs3
- F. ef

Answer: F

NEW QUESTION 379

DRAG DROP

Drag and drop the subslot of the SIP-800 card that is used on Cisco CRS routers on the left to the correct PUM ASIC process on the right.

subslot 0	First PUM ASIC
subslot 1	
subslot 2	
subslot 3	Second PUM ASIC
subslot 4	
subslot 5	

Answer:

Explanation:



NEW QUESTION 380

You applied this ACL to the interface and several people reported that they were unable to access the network.
`ipv6 access-list webOnly permit tcp any 2001:DB8::/32 permit udp any 2001:DB8::/32 deny ipv6 any any`
 Which answer explains why they were unable to access the network?

- A. The connections are stal
- B. The users must close and restart their applications.
- C. DNS queries and replies are not working.
- D. The ACL is blocking the operation of the ND process.
- E. DHCP requests are not reaching to the DHCP server.

Answer: C

NEW QUESTION 383

What best describes the usage of Route-Target rewrite?

- A. Route-Target Rewrite is mainly used in Inter-AS MPLS-VPN deployments and is configured at the Route-Reflector in originating AS ASBR to avoid misconfiguration in Route-Target assignment for VPN configurations.
- B. Route-Target Rewrite is mainly used in Inter-AS MPLS-VPN deployments and is configured at the ASBR to avoid misconfiguration in Route-Target assignment for VPN configurations.
- C. Route-Target Rewrite is mainly used in Inter-AS MPLS-VPN deployments and is configured at the PE router in originating AS ASBR to avoid misconfiguration in Route- Target assignment for VPN configurations.
- D. None of the above.

Answer: B

NEW QUESTION 385

```
<configScope
  dn="sys/chassis-1/blade-5/board/cpu-2"
  cookie="<real_cookie>"
  response="yes">
  <outConfigs>
    <processorEnvStats
      dn="sys/chassis-1/blade-5/board/cpu-2/env-stats"
      inputVoltage="0.058200"
      inputVoltageAvg="0.062080"
      inputVoltageMax="0.077600"
      inputVoltageMin="0.058200"
      intervals="58982460"
      suspect="no"
      temperature="23.000000"
      temperatureAvg="23.000000"
      temperatureMax="23.000000"
      temperatureMin="23.000000"
      thresholded=""
      timeCollected="2009-09-23T12:40:55"
      update="327680"/>
    </outConfigs>
  </configScope>
```

Refer to the exhibit. Which data format is used in this script?

- A. JavaScript
- B. API
- C. XML
- D. YANG

Answer: C

NEW QUESTION 387

Select 3 AVPs (Attribute-Value Pair) which MUST be present in the ICRQ:

- A. Called Number
- B. Call Serial Number
- C. Message Type
- D. Calling Number
- E. Assigned Session ID

Answer: BCE

NEW QUESTION 388

Which three IP/MPLS feature have been removed form MPLS-TP? (Choose three)

- A. Global and local label
- B. Dual-direction LSP
- C. LSP merging
- D. ECMP
- E. QoS mapping
- F. Protection
- G. PHP

Answer: CDG

NEW QUESTION 391

A client has an MPLS inter-AS implementation that is required to have QoS deployed between ASBRs based on IP packet. At the same time, the client requires minimization of the routing configuration between ASBRs for better scalability. Which MPLS inter-AS option can achieve this goal?

- A. Option A
- B. Option B
- C. Option C
- D. Option AB

Answer: D

NEW QUESTION 393

Which three options are functions of the Cisco Service Control Engine? (Choose three.)

- A. intelligent inspection and control of IP packets
- B. application of session-level bandwidth shaping
- C. provisioning of access aggregation

- D. per-subscriber bandwidth management
- E. Implementation of VPN services

Answer: ABD

NEW QUESTION 395

Refer to the exhibit.

```

R4#show ip route ospf | begin 1.1
O      1.1.1.1 [110/3] via 10.10.34.3, 00:01:12, FastEthernet0/1
      [110/3] via 10.10.24.2, 00:01:22, FastEthernet0/0
O      2.0.0.0/32 is subnetted, 1 subnets
O      2.2.2.2 [110/2] via 10.10.24.2, 00:01:22, FastEthernet0/0
O      3.0.0.0/32 is subnetted, 1 subnets
O      3.3.3.3 [110/2] via 10.10.34.3, 00:01:12, FastEthernet0/1
O      10.0.0.0/8 is variably subnetted, 6 subnets, 2 masks
O      10.10.12.0/24 [110/2] via 10.10.24.2, 00:01:22, FastEthernet0/0
O      10.10.13.0/24 [110/2] via 10.10.34.3, 00:01:12, FastEthernet0/1
    
```

Which command group does a network administrator use to filter out R3 (3.3.3.3 subnet) from the R4 routing table?

- A. R4(config)# router ospf 1 distribute-list prefix-list filter in
- B. R2(config)# router ospf 1 distribute-list prefix-list filter out Fa0/1
- C. R4(config)# router ospf1 distribute-list prefix-list filter in Fa 0/0
- D. R3(config)# router ospf 1 distribute-list prefix-list filter out Fa 0/0

Answer: A

NEW QUESTION 396

R1 and R2 share the same Fast Ethernet connection. OSPFv3 is configured on each interface, but the adjacency is not being established. Review the configuration provided. Which option explains why the OSPFv3 adjacency is not coming up?

```

R1
Interface fastethernet 0/0
ipv6 address 2001:db8:1234:1::1/64 ipv6 ospf 1 area 0 instance 2
ipv6 enable
ipv6 router ospf 1 router-id 1.1.1.1
R2
Interface fastethernet 0/0
ipv6 address 2001:db8:6789:9::1/64 ipv6 ospf 2 area 0 instance 3
ipv6 router ospf 2 router-id 2.2.2.2
    
```

- A. The two routers are not on the same subnet.
- B. IPv6 is not enabled on R2 Fast Ethernet 0/0.
- C. There is no reachability to 1.1.1.1 or 2.2.2.2.
- D. The OSPFv3 processes do not match.
- E. The instance IDs do not match.

Answer: E

NEW QUESTION 397

MPLS label headers for packet media consist of:

- A. Version
- B. Label
- C. COS/EXP
- D. TTL
- E. S flag

Answer: BCDE

NEW QUESTION 402

On which two protocols is VNC based? (Choose two)

- A. Rdesktop
- B. Terminal Services Client
- C. TCP
- D. RFB
- E. UDP
- F. CoRD

Answer: CD

NEW QUESTION 403

How many messages does Internet Key Exchange use to negotiate SA characteristics when it runs in aggressive mode?

- A. 3
- B. 4
- C. 5
- D. 2
- E. 6

Answer: A

NEW QUESTION 405

DRAG DROP

Drag and drop the Timing Protocol characteristics on the left onto the correct Timing over Packet Solution on the right

Answer:

Explanation: Network Time Protocol : The most recent version introduced accuracy to the terms of microseconds and includes an extensibility mechanism

Precision Time Protocol : It defined a protocol for precise, real-time, network-wide synchronizatoin accuracy in the sub millisecond range

Synchronous Ethernet : It provides accurate frequency synchronization, but does not provide time/phase synchronization

Time over IP connection and transfer of clock BOF: It was written to provide a roubust IP/MPLS-based time and frequency distribution architecture

NEW QUESTION 410

A layer 2 aggregation deployed via IEEE 802.1D has many nodes on a single link A DHCP version 6 server cannot recognize how the clients are attached to a network, Which solution provides a client identification to the DHCPv6 in this scenario?

- A. LDRA
- B. DHCPv6 relay agent
- C. DHCP snooping
- D. Broadband Forum Trunk N:1

Answer: A

NEW QUESTION 412

The ASBR-summary LSA is:

- A. Generated by the ABR and describes reachabilty to the ASBR for routers in the same area with the ASBR
- B. Generated by the ASBR and describes reachability to itself
- C. Generated by the ABR and describes reachabilty to the ASBR for routers in a different area from the ASBR
- D. Generated by the ASBR and describes reachability to the ABR

Answer: C

NEW QUESTION 414

Which three options are restrictions for MPLS VPN BGP Local Convergence? (Choose three.)

- A. The MPLS VPN BGP Local Convergence feature affects only traffic that is exiting the VP
- B. Therefore, it cannot fully protect traffic end-to-end by itself.
- C. This link protection can be initiated during a HA SS
- D. But links that were configured with this protection before the switchover begins remain protected after the switchover.
- E. The MPLS VPN BGP Local Convergence feature for IPv4/IPV6 supports the eBGP, RIP, EIGRP, OSPF, and dynamic routing protocols.
- F. Any next-hop core tunneling technology that is supported by BGP is also supported for protection, including MPLS, L2TPv3, and IP/GR
- G. CSC protocol between the PE and CE is also supported
- H. Inter autonomous system option A (back-to-back VRF) is supported because it is essentially the same as performing the PE-CE link protection in both autonomous system
- I. However, inter autonomous system options B and C protection are not supported.
- J. If you perform an in-service software downgrade from an image that does include this link protection to an image that does not support this feature, active protection is halted when BGP routes are refreshed.

Answer: ADE

NEW QUESTION 418

Which three IS-IS TLVs are used to support MPLS traffic engineering? (Choose three).

- A. extended TLV 22
- B. extended TLV 23
- C. extended TLV 134
- D. extended TLV 135
- E. extended TLV 136
- F. extended TLV 138

Answer: ACD

NEW QUESTION 423

Which description of the main purpose of the LDP targeted Session is true?

- A. To improve the label convergence time for directly connected LSRs by maintaining the session up when the link between LSRs by maintaining the session up when the link between LSRs down
- B. To prevent traffic from being black-holed by building a MPLS forwarding table depending on the IP routing protocol in use
- C. To establish an adjacency before exchanging network information to avoid keepalive messages being dropped during heavy network traffic event
- D. To provide the means for LSR to request and release label prefix binding information to peers routers

Answer: A

NEW QUESTION 428

In PIM-SM operations, to which device does the first router that connects with the multicast source send the register message?

- A. RP
- B. multicast source
- C. IGMP router
- D. multicast receiver
- E. PIM designated router

Answer: A

NEW QUESTION 433

In an OSPF domain, four routers are running the OSPF protocol over a LAN switch in a broadcast domain. What is the expected output of executing the show ip OSPF neighbor command on the router that is neither a DR nor a BDR?

- A. one FULL state, two 2WAY states
- B. two FULL states, one 2WAY state
- C. three FULL states
- D. three 2WAY states

Answer: B

NEW QUESTION 435

What is true regarding Cisco Network Registrar in Cable networks?

- A. It provides comprehensive Domain Name system
- B. It provides DHCP administrative functionality
- C. It provides TFTP server functionality.
- D. All of the above are true.

Answer: D

NEW QUESTION 440

How many bits are expressed by "::" in the address 2001:DB8::9C0:876A:0:130B?

- A. 32 bits
- B. 28 bits
- C. 44 bits
- D. 64 bits

E. 0 bits

Answer: A

NEW QUESTION 441

DRAG DROP

Drag and drop the SONET alert types on the left onto the correct severities on the right Not all options are used

Remote defect Indication-line (LRDI)	Critical
Alarm Indicate Signal-Path (PAIS)	
Section Loss of Signal (SLOS)	Major
Alarm indicates signal-line (LAIS)	
Remote defect Indication-path (PRDI)	Minor
Section Loss of Frame (SLOF)	

Answer:

Explanation:

Remote defect Indication-line (LRDI)	Critical
Alarm Indicate Signal-Path (PAIS)	
Section Loss of Signal (SLOS)	Major
Alarm indicates signal-line (LAIS)	
Remote defect Indication-path (PRDI)	Minor
Section Loss of Frame (SLOF)	

NEW QUESTION 443

What happens when a broadcast storm is detected?

- A. The traffic threshold reaches 100%.
- B. CPU utilization reaches 100%.
- C. The value of the TotalSuppDiscards counter increments.
- D. The port goes down.
- E. The switch goes down.

Answer: C

NEW QUESTION 447

What is true regarding Autonomous Systems (AS)?

- A. All of the Above
- B. AS numbers are assigned by the IANA
- C. AS numbers are used by BGP (Border Gateway protocol to exchange IP routing information with neighboring AS
- D. In the internet, an Autonomous System (AS) is a collection of IP networks and routers under the control

Answer: A

NEW QUESTION 452

A customer requires to exchange BGP IPv6 prefixes with a service provider. However, the customer is unwilling to propagate its own IPv6 prefixes over the Internet through the service provider. What task engineer take to achieve this objective?

- A. Configure the IPv6 prefixes of the customer with the predefined BGP no-export community attribute
- B. Configure the BGP next-hop for IPv6 prefixes of the customer with the address of the ISP BGP route server
- C. Define a route-map or RPL that blackholes all customer IPv6 prefixes
- D. Configure the IPv6 prefixes of the customer with the predefined BGP no-advertise community attribute

Answer: A

NEW QUESTION 457

Which carrier-grade IPv6 technology helps with IPv4 address depletion?

- A. dual stack and NAT444
- B. NAT444 and 6RD
- C. NAT444 and DS-Lite
- D. 6RD and DS-Lite

Answer: C

NEW QUESTION 460

IS-IS is deployed in a service provider network with more than 500 routers using the default IS-IS metric-style. The service provider must implement MPLS TE support with lesser service impact during the migration period. Which Cisco IOS command meets this requirements?

- A. Metric-style narrow wide
- B. Metric-style wide
- C. Metric-style wide transition
- D. Metric-style narrow transition

Answer: C

NEW QUESTION 462

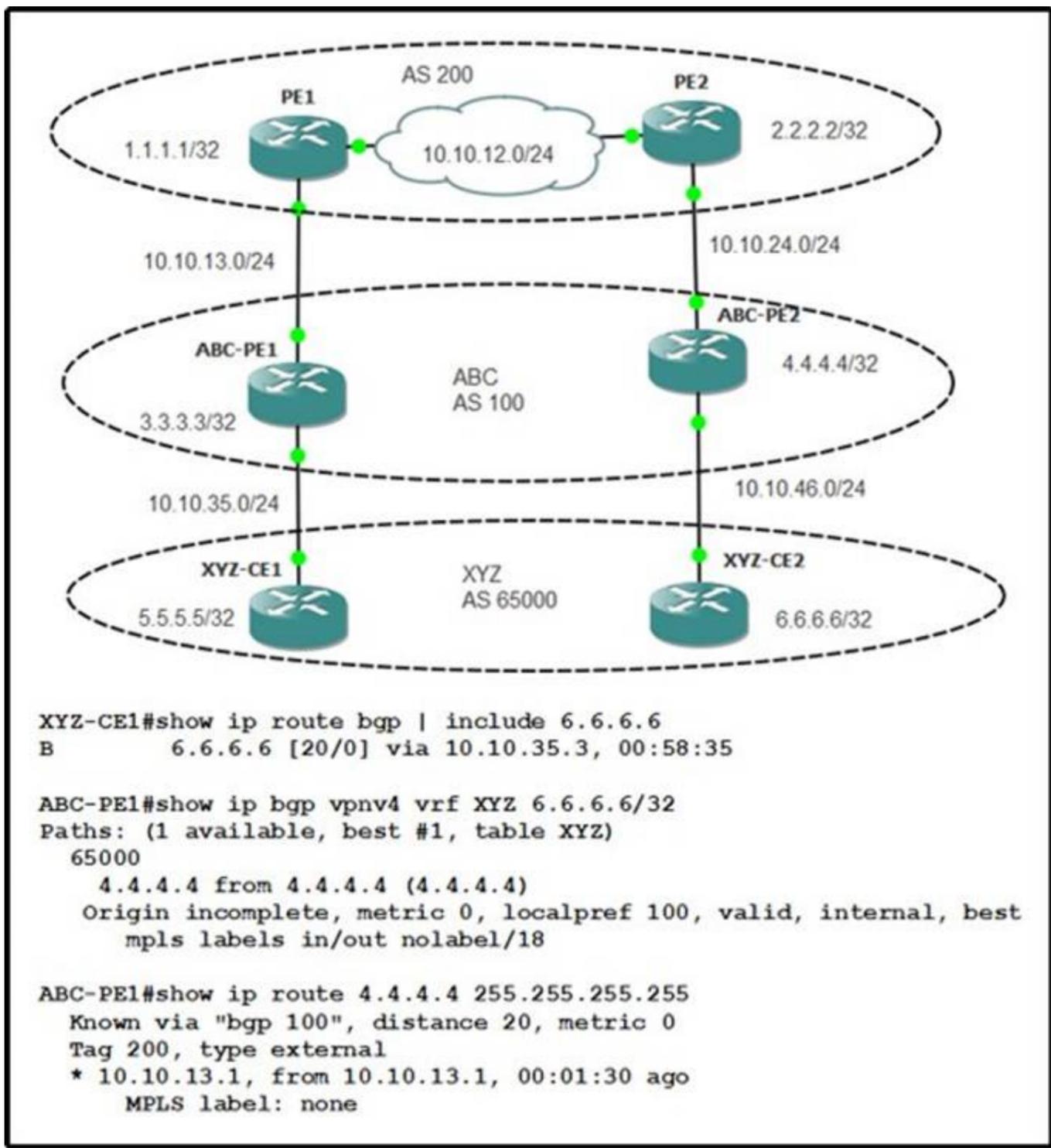
An engineer deploys a new Cisco IOS XR router and connects a Gigabit Ethernet port to an existing Cisco Catalyst 3650 Series Switch. The engineer uses known good optics and fiber, but the link has not come up and it is stuck in the down/down state. What is the root cause of this issue?

- A. Cisco IOS XR devices must use copper connections to Catalyst 3650 Series Switches
- B. UDLD must be enabled on the Catalyst 3650 Series switch
- C. CDP is not enabled on the Cisco IOS XR device
- D. Auto negotiation must be disabled on the Catalyst 3650 Series Switch

Answer: D

NEW QUESTION 464

Refer to the exhibit.



AS 100 for ABC sites is used to carry XYZ customer traffic over ISP network. All routing between CEs to PEs are BGP-based. XYZ site 1 reports that it cannot reach XYZ site 2, although the destination network is installed in its routing table. Which statement describes the cause of the problem?

- A. LDP is not running between XYZ-CE1 and ABC-PE1.
- B. LDP is not running between ABC-PE1 and PE1.
- C. ABC-PE1 does not have an inbound label for subnet 6.6.6.6/32.
- D. send-label command is missing from PE1 to ABC-PE1.

Answer: D

NEW QUESTION 466

Refer to the exhibit.

```

R2#show running-config | section router bgp
router bgp 23
 redistribute ospf 1
 neighbor 10.10.23.3 remote-as 23
 neighbor 2001:10:10:23::3 remote-as 23
!
 address-family ipv6
 redistribute ospf 1
 neighbor 2001:10:10:23::3 activate

R3#show bgp ipv6 unicast
Network          Next Hop          Metric LocPrf Weight Path
*>i2001:DB8::1/128 2001:10:10:23::2    1    100    0    ?
    
```

A company is deploying IPv6 using a dual-stack approach. OSPFv2 is used for IPv4 routing and is redistributed into the BGP IPv4 address family. The network engineer also needs to enable OSPFv3 for IPv6 routing using the same design that is used for OSPFv2. All prefixes in the OSPFv3 database must be redistributed into the BGP IPv6 address family at router R2, but R3 does not receive the loopback 0 IPv6 address of R2 via BGP. Which action will fix this problem?

- A. redistribution of BGP routes into OSPFv3
- B. redistribution of OSPFv3 routes into BGP with include-connected
- C. mutual redistribution of OSPFv3 and BGP routes
- D. redistribution of connected OSPFv3 routes

Answer: B

NEW QUESTION 469

DRAG DROP

Drag the MPS label format on the left onto the correct target on right.

DLCI	Ethernet
NLPID	ATM
Label	Frame Relay
VPI	
VCI	
VPI and VCI	
VLAN ID	

Answer:

Explanation:

Drag the MPS label format on the left onto the correct target on right.

DLCI	Label
NLPID	VPI and VCI
Label	DLCI
VPI	
VCI	
VPI and VCI	
VLAN ID	

NEW QUESTION 471

Which statement about 6PE is true?

- A. An additional address family was added to MP-BGP for the support of 6PE.
- B. MP-iBGP is needed to support 6PE.
- C. LDP is needed to support 6PE.
- D. P routers need to be dual stack.
- E. MP-eBGP is needed to support 6PE.

Answer: B

NEW QUESTION 475

A client has a Layer 2 handoff with a service provider using HSRP. This client has a requirement to optimize the HSRP configuration in it reacts when an indirect failure occurs. Which feature interacts with HSRP to achieve this goal?

- A. IP SLA
- B. MPLS node protection
- C. IP Fast Reroute
- D. Anycast

Answer: AC

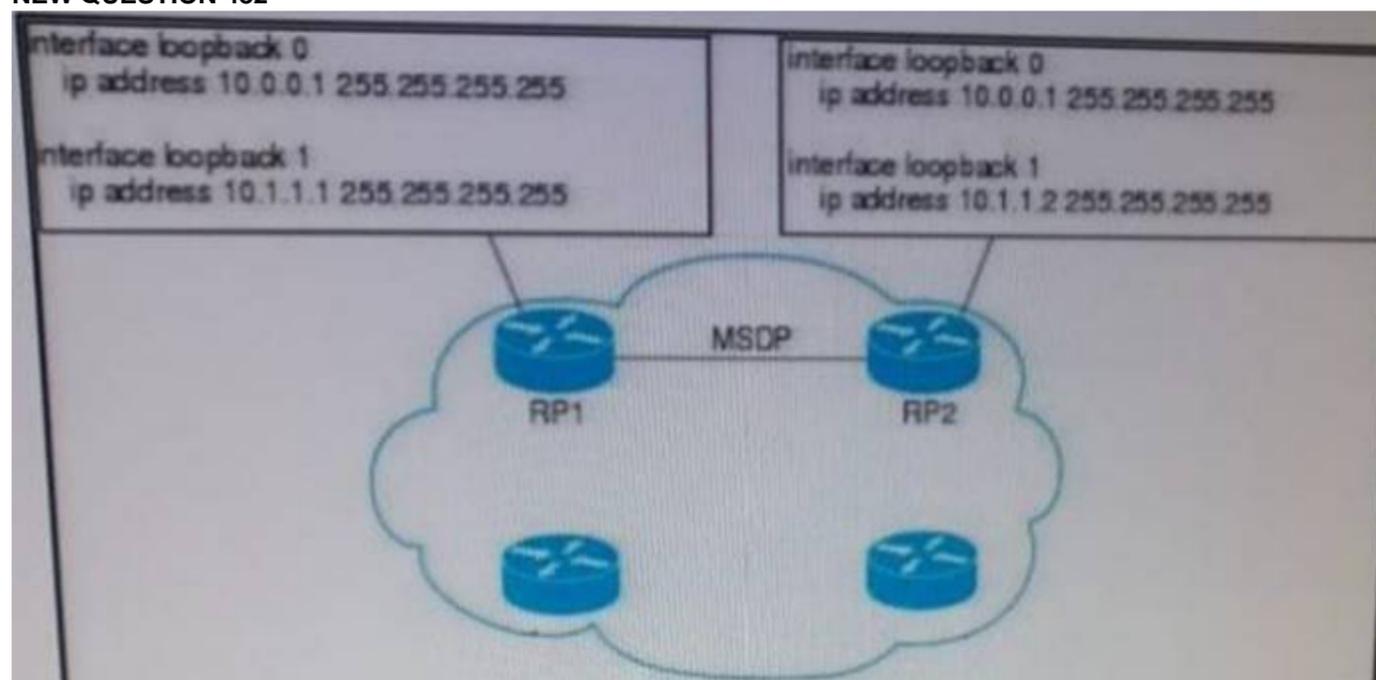
NEW QUESTION 479

What will significantly degrade DSL performance, regardless of DSL rate or line length? Select all that apply

- A. Micro liters installed between a telephone and shared line.
- B. POTS splitters at the subscriber's end of the DSL line
- C. POTS splitters at the telco CO.
- D. None of the other alternatives apply.

Answer: D

NEW QUESTION 482



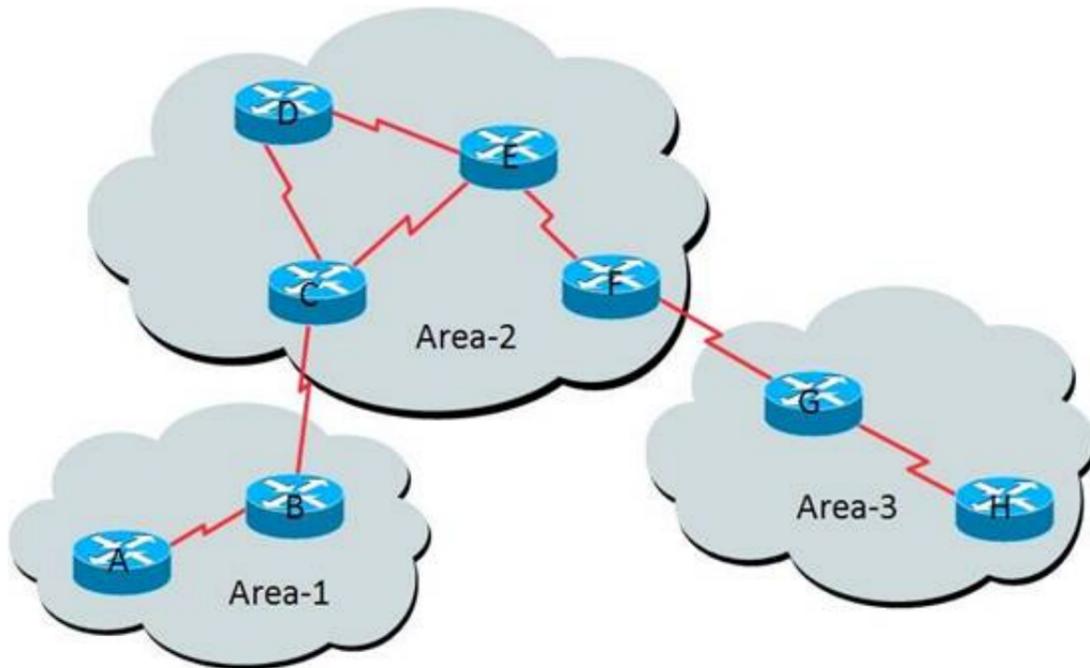
Refer to the exhibit. All routers are running Cisco IOS software. Which configuration enables PIM Anycast RP on RP1?

- A.
Ip msdp peer 10.1.1.2 anycast loopback1 Ip pim rp-address loopback0
- B.
ip msdp peer 10.1.1.2
Ip pim rp-address loopback0
!
Router bgp 10
Neighbor 10.1.1.2 remote-as 10
Neighbor 10.1.1.2 update-source loopback1
!
- C.
ip msdp peer 10.1.1.2 connect-source loopback1
Ip msdp originator-id loopback 1 Ip pim rp-address loopback0

Answer:

NEW QUESTION 487

Refer to the exhibit.



All routers are running IS-IS. Which three routers can be Level 1 Only routers? (Choose three.)

- A. A
- B. B
- C. C
- D. D
- E. E
- F. F
- G. G
- H. H

Answer: ADH

NEW QUESTION 492

DRAG DROP

Drag the command on the left to the correct step on the right to perform Frame Relay interworking with Ethernet over MPLS on a Cisco IOS router.

encapsulation mpls	Step 1
connect name serial-interface DLCI I2transport	Step 2
frame-relay switching	Step 3
xconnect IP address circuit-id pw-class name	Step 4
pseudowire-class name	Step 5
interworking	Step 6

Answer:

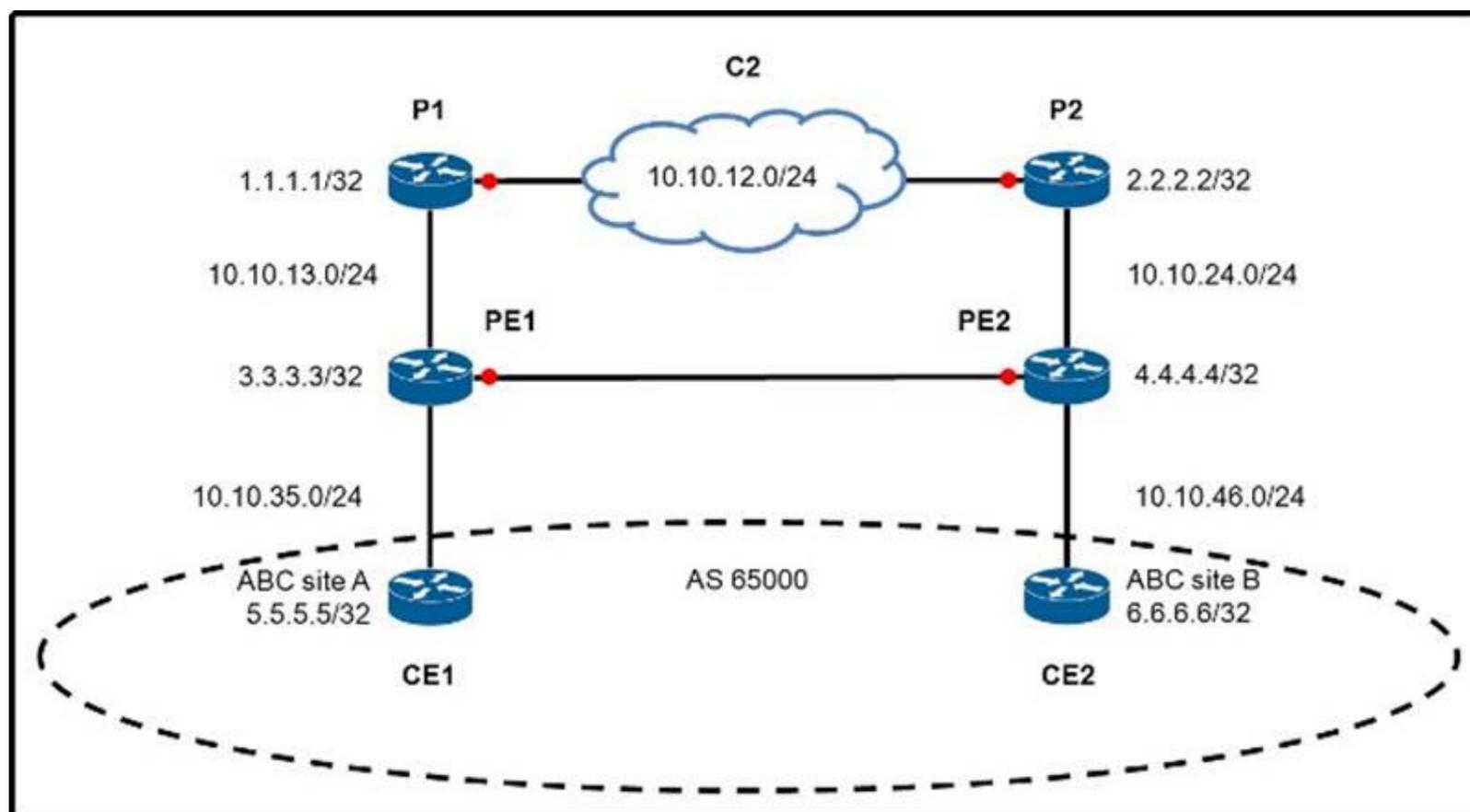
Explanation:

Drag the command on the left to the correct step on the right to perform Frame Relay interworking with Ethernet over MPLS on a Cisco IOS router.

encapsulation mpls	frame-relay switching
connect name serial-interface DLCI I2transport	pseudowire-class name
frame-relay switching	encapsulation mpls
xconnect IP address circuit-id pw-class name	interworking
pseudowire-class name	connect name serial-interface DLCI I2transport
interworking	xconnect IP address circuit-id pw-class name

NEW QUESTION 495

Refer to the exhibit.



An engineer is viewing the CE1 routing table for CE2 Loopback 0. Each CE runs OSPF with its PE. Which statement describes why the CE2 Loopback address is installed as an external OSPF route at the CE1 routing table?

- A. PE1 and PE2 have mutual redistribution between OSPF and BGP.
- B. CE2 is configured under OSPF with the command redistribute connected.
- C. CE1 and CE2 are in different areas.
- D. CE1 and CE2 have different OSPF processes.
- E. PE1 and PE2 have different OSPF VRF processes.

Answer: E

NEW QUESTION 497

In which two ways does the BGP graceful restart capability preserve prefix information during a restart? (Choose two.)

- A. The peer router sends an end-of-RIB message to the restarting router
- B. The peer router immediately removes the BGP routes that it learned from the restarting router from its BGP routing table
- C. The restarting router waits to receive updates from the neighboring routers.
- D. The restarting router does not remove any stale prefixes after the timer for stale entries expires.
- E. The restarting router removes any stale prefixes after the timer for stale entries expires

Answer: CE

NEW QUESTION 502

```

route-policy FILTER
  if tag eq 66 then
    set local-preference 200
    set origin igp
    set community (65444:222, no-export)
    set next-hop 2001:db8:0:ff::abcf
  else
    drop
  endif
end-policy
!
route static
  address-family ipv6
    2001:db8:0:ff::abcf/128 null 0

```

Refer to the exhibit. A network engineer is deploying the this RTBH filtering configuration template on 100 Cisco IOS XR router. What is missing from this configuration?

- A. The BGP well-known community no-advertised in the set community command
- B. A static route with tag 66 on the trigger router
- C. A route policy that matches community 6544422
- D. A tag 66 on the static route that is applied to all 100 routers

Answer: D

NEW QUESTION 505

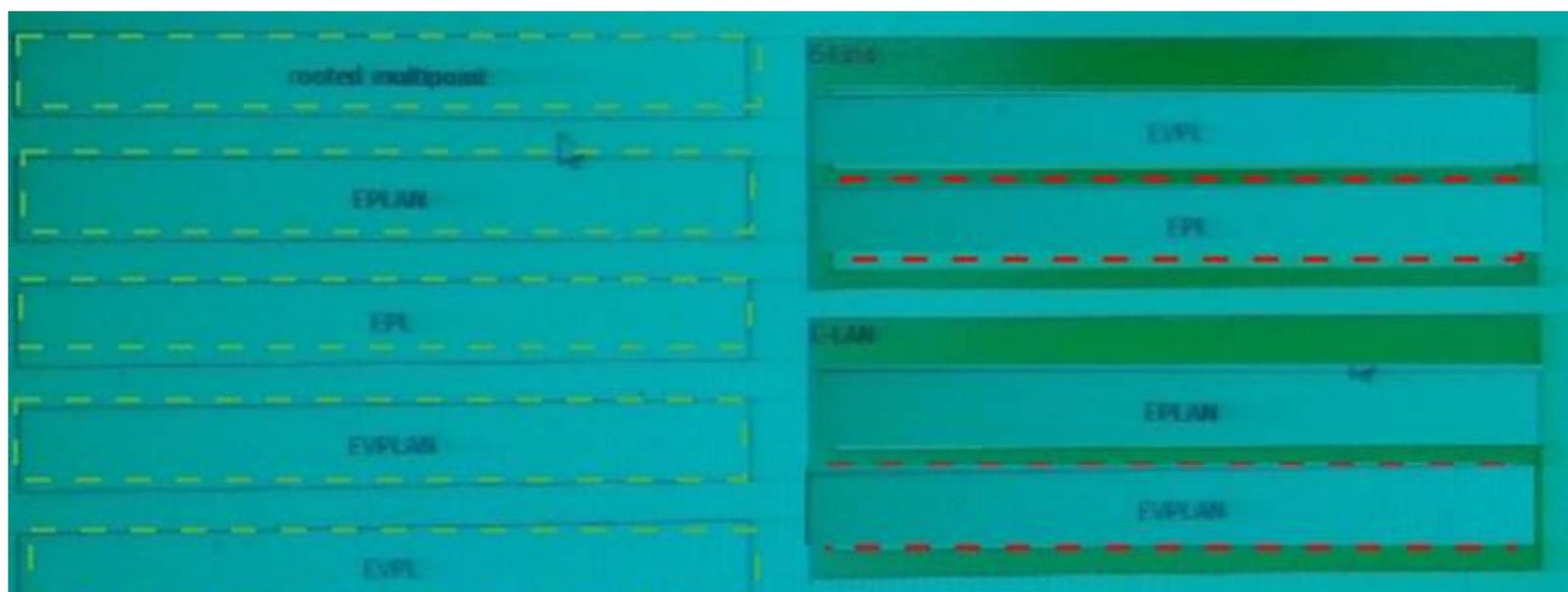
DRAG DROP

According to MEF definition, drag and drop the EVP types on the left onto the correct EVC services. Not all options are used



Answer:

Explanation:



NEW QUESTION 510

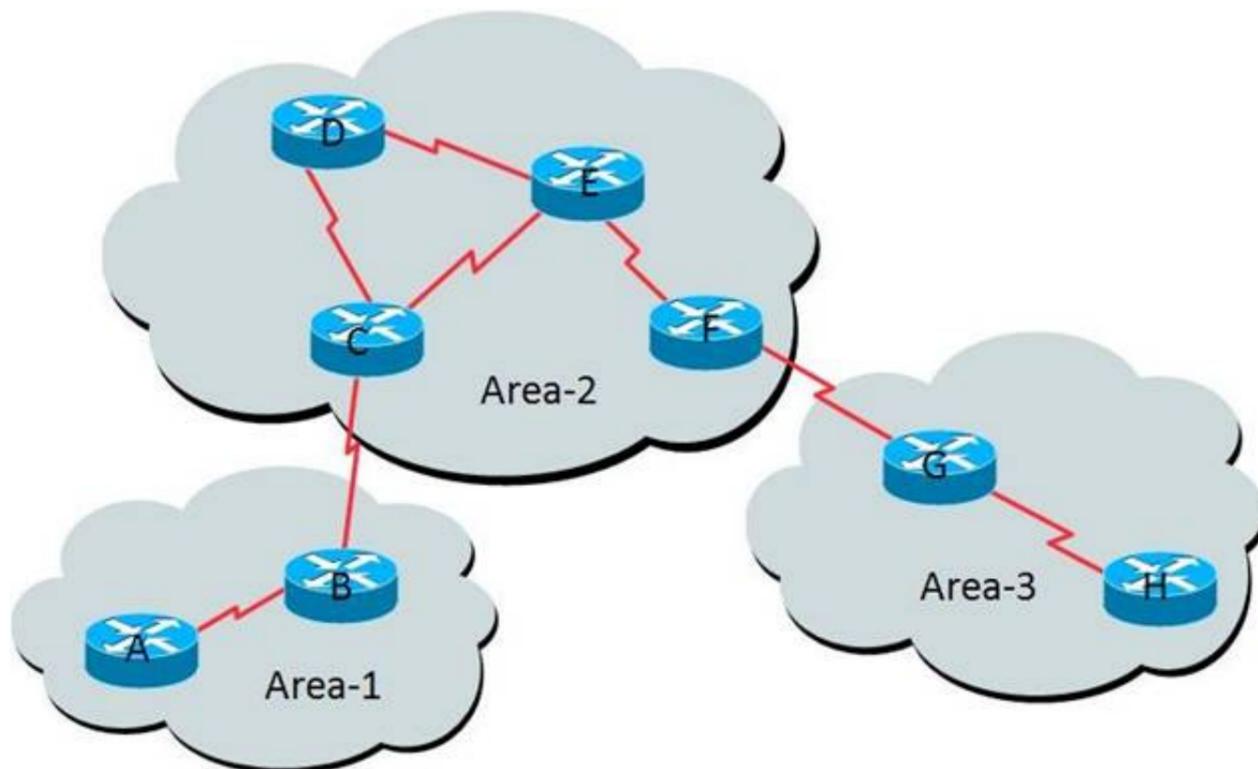
GMPLS is based upon Non-Packet-based devices

- A. True
- B. False

Answer: A

NEW QUESTION 511

Refer to the exhibit.



All routers are running IS-IS. Which routers must be Level 2 routers?

- A. B, D, E and G
- B. A, D, E, and H
- C. B, C, F, and G
- D. B, C, E, F, and G
- E. A, B, C, D, F, G, and H

Answer: D

NEW QUESTION 515

Which type of IPv6 address does OSPFv3 use to communicate with OSPFv3 neighbors?

- A. link-local
- B. site-local
- C. global
- D. unique local
- E. anycast

Answer: A

NEW QUESTION 516

A security agency wants to use the services of the service provider to interconnect the remote sites. However, they do not want to share the IP addresses of their sites and they want end-to-end security.

Which three services meet the design requirements? (Choose three.)

- A. client mode VPN
- B. tunnel mode VPN
- C. L2VPN
- D. L3VPN
- E. PPTP
- F. SSL VPN

Answer: ABC

NEW QUESTION 518

Which of the following processes are likely to be found in a microkernel?

- A. Memory management
- B. Lightweight messaging
- C. Process scheduling
- D. Hardware abstraction
- E. Host stack
- F. All of the above

Answer: F

NEW QUESTION 519

```

PE1
-----

router bgp 65000
 address-family ipv4 vrf A
  redistribute rip

router rip
 address-family ipv4 vrf A
  redistribute bgp 65000 metric 2
    
```

Refer to the exhibit RIP is used as a PE -CE routing protocol A customer engineer from the remote side notices that the RIP metric changed to an unexpected value Which is the correct configuration that must be applied on PE1 that prevents this behavior?

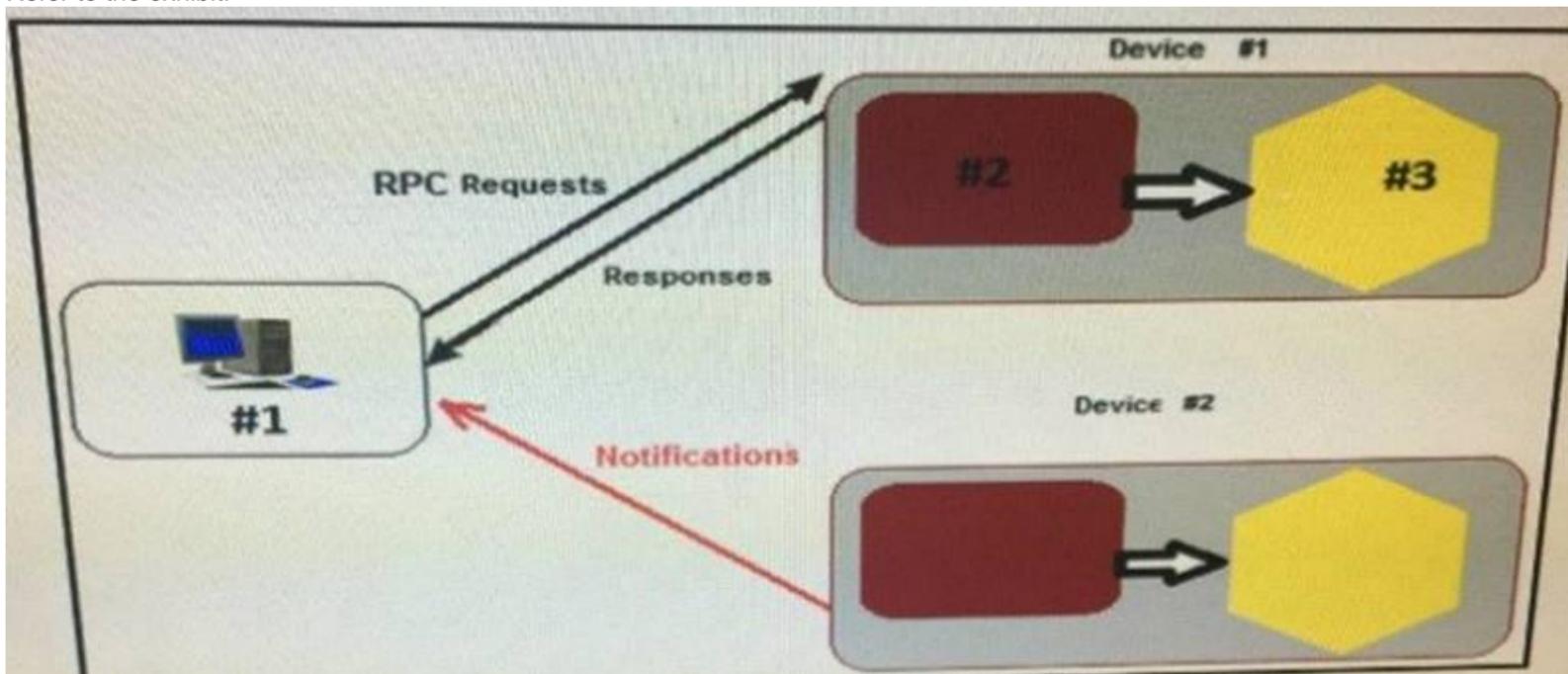
- A.
router rip
address -family ipv4 vrf A
redistribute bgp 65000 metric transparent
- B.
router bgp 65000 address -family ipv4 vrf A redistribute rip metric 0
- C.
router rip
address -family ipv4 vrf A redistribute bgp 65000 metric 0
- D.
router bgp 65000 address -family ipv4 vrf A
redistribute rip metric transparent

Answer:

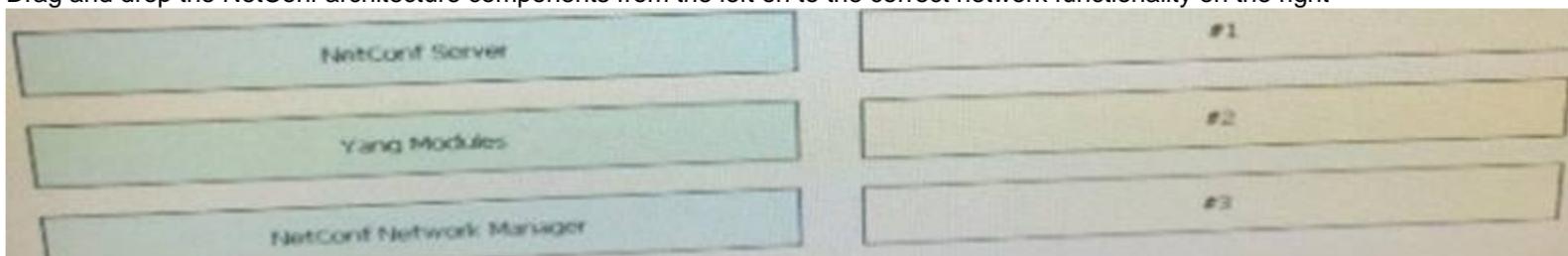
NEW QUESTION 521

DRAG DROP

Refer to the exhibit.

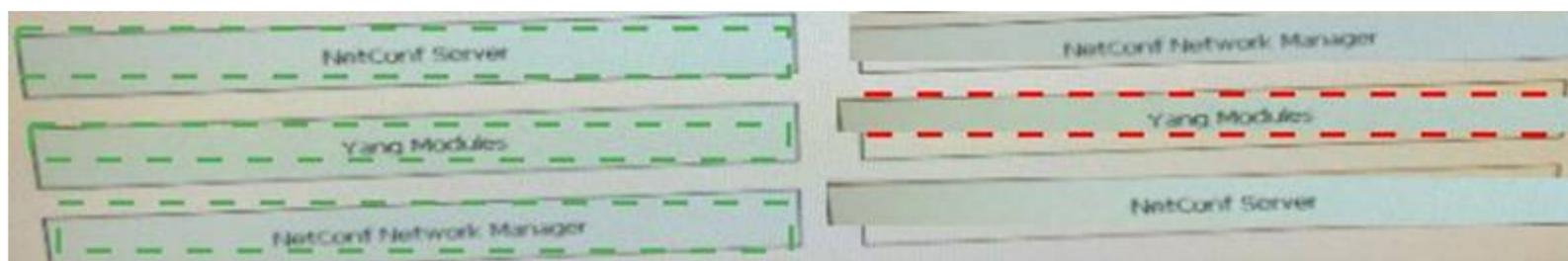


Drag and drop the NetConf architecture components from the left on to the correct network functionality on the right



Answer:

Explanation:



NEW QUESTION 525

A network engineer is using IS-IS IGP protocol to design a network. Which three design elements should be used to divide the network into a hierarchy of areas? (Choose three.)

- A. Core routers will be only level-2.
- B. Routers on the edge of the network will be only level-1.
- C. Router between core and edge routers will be level-1-2.
- D. Routers on the edge of the network will be only level-2.
- E. Router between core and edge routers will be only level-2.
- F. Router between core and edge routers will be only level-1.

Answer: ABC

NEW QUESTION 529

DRAG DROP

Drag the protocol on left to the correct function on right to perform MPLS traffic engineering configuration with OSPF.

CSPF	path setup
OSPF	link information distribution
RSVP	forwarding traffic down tunnel
static route	path calculation

Answer:

Explanation:

Drag the protocol on left to the correct function on right to perform MPLS traffic engineering configuration with OSPF.

CSPF	RSVP
OSPF	OSPF
RSVP	static route
static route	CSPF

NEW QUESTION 534

When the default MDT is configured, a multicast tunnel interface is created dynamically. Which statement about MTI is true?

- A. The MTI takes on the interface characteristics of same interface.
- B. The MTI is the interface that connects the PE multicast environment to the service provider global environment.
- C. The MTI is the interface that connects the customer multicast environment to the service provider global environment.
- D. Unicast packets are forwarded over the MTI because this interface does not appear in the unicast routing table of the associated VRF.

Answer: C

NEW QUESTION 536

Which command will display the MPLS label binding for IP prefix 1.1.1.0 on the router?

- A. All of the above.
- B. show tag-switching tdp binding 1.1.1.0/24
- C. show tag-switching tdp bindings neighbor 1.1.1.0
- D. A and B both will show the binding.
- E. show tag-switching interface e0/0

Answer: B

NEW QUESTION 540

Which of the below protocols can be used to secure CoAP?

- A. MACsec
- B. DTLS
- C. IPsec
- D. TLS

Answer: B

NEW QUESTION 545

DRAG DROP

Drag the OSPFv2 LSA type number on the left to the correct LSA name on the right.

1	NSSA External LSA
2	AS External LSA
3	Network LSA
4	Network Summary LSA
5	ASBR Summary LSA
6	Router LSA
7	Group Membership LSA

Answer:

Explanation:

Drag the OSPFv2 LSA type number on the left to the correct LSA name on the right.

1	7
2	5
3	2
4	3
5	4
6	1
7	6

NEW QUESTION 548

When gateways are registering with a gatekeeper, the gatekeeper can be

- A. On the same subnet
- B. On a remote LAN
- C. In a different subnet
- D. Any of the above

Answer: D

NEW QUESTION 550

Which are the three characteristics of Cisco IOS Embedded Packet Capture? (Choose three)

- A. It has the facility to the export the packet capture in pcap format
- B. It uses EXEC-level commands to start and stop the capture
- C. The Cisco IOS output is displayed in a human-readable format
- D. It has the ability to preserve Ethernet encapsulation information when exported
- E. It has the ability to capture packets in the Cisco Express Forwarding path
- F. The capture can be performed only on physical interfaces and subinterfaces

Answer: ABE

NEW QUESTION 555

Which statement about OSPFv3 is true?

- A. OSPFv3 runs on per subnet basis instead of per-link.
- B. OSPFv3 instance ID is only locally significant.
- C. OSPFv3 authentication is performed using the authentication field in the OSPFv3 packet header.
- D. OSPFv3 neighbor discovery messages can be sourced only from link-local addresses.

Answer: D

NEW QUESTION 558

What protocol is used for Path Setup in MPLS traffic engineering?

- A. BGP
- B. PIM
- C. ISIS
- D. OSPF
- E. RSVP

Answer: E

NEW QUESTION 561

One benefit of MPLS Layer 3 VPN is that migration for the end customer is simplified. Which statement is true?

- A. There is no requirement to support MPLS on the PE router and modifications are required for a customer intranet.
- B. There is no requirement to support MPLS on the PE router and no modifications are required for a customer intranet.
- C. There is no requirement to support MPLS on the CE router and no modifications are required for a customer intranet.
- D. There is requirement to support MPLS on the CE router and no modifications are required for a customer intranet.

Answer: C

NEW QUESTION 566

DRAG DROP

Drag and drop the MPLS Inter-AS VPN options on the left onto the correct description on the right

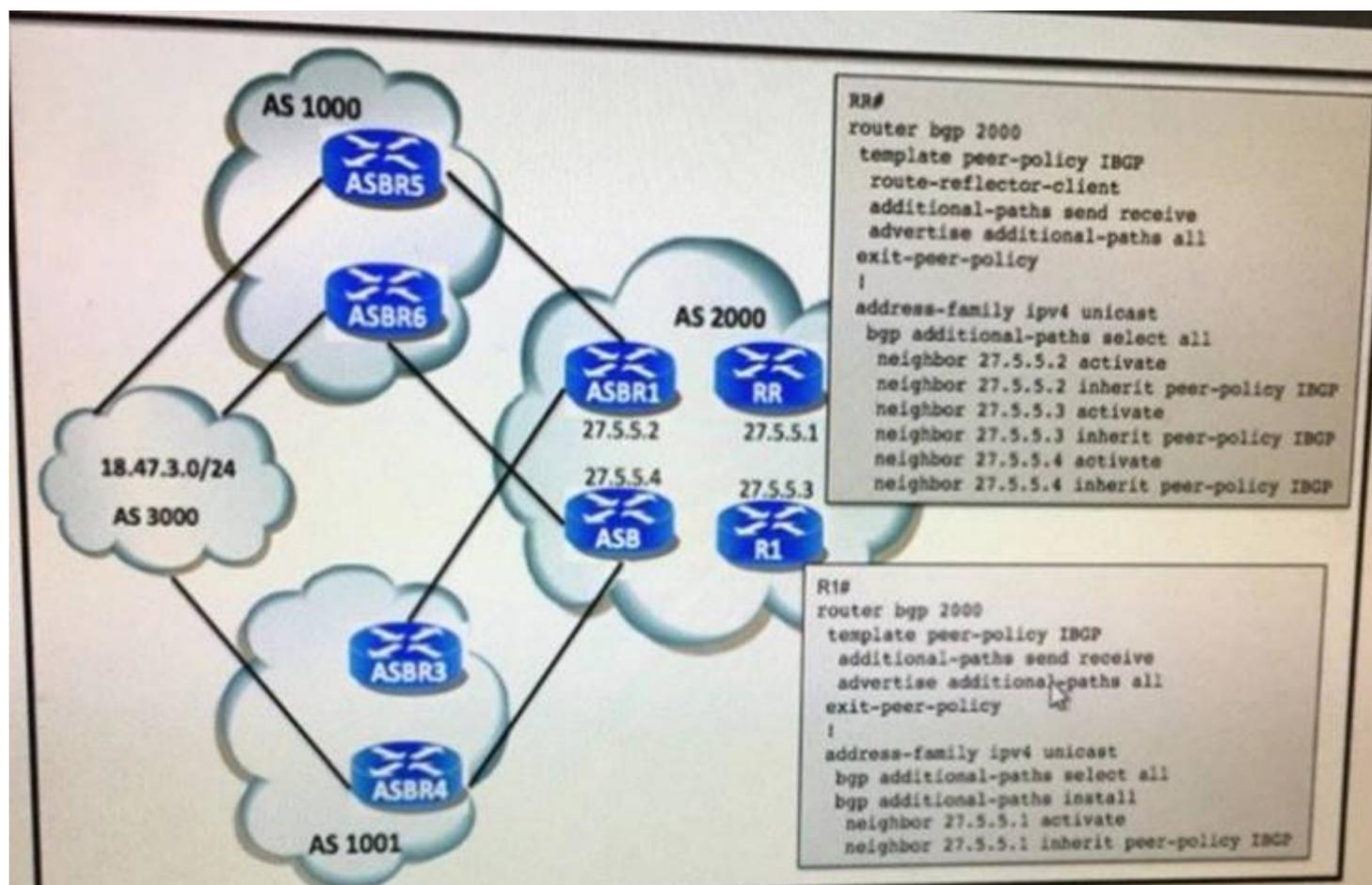
Option A	MP-BGP is used to distributed labeled VPN prefixes between the ASBRs.
Option B	RRs peering between ASs are used to distribute VPN prefixes.
Option C	Single MP-BGP session between ASBRs in the global routing table carry control plane traffic; data plane traffic on VRF table.
Option AB	ASBR peers are connected by multiple subinterfaces with at least one interface linked to a VRF.

Answer:

Explanation:

The screenshot shows the correct matches for the drag-and-drop question. On the left, there are four options: Option A, Option B, Option C, and Option AB. On the right, there are four descriptions. The correct matches are: Option A to the first description (MP-BGP is used to distributed labeled VPN prefixes between the ASBRs.), Option B to the second description (RRs peering between ASs are used to distribute VPN prefixes.), Option C to the third description (Single MP-BGP session between ASBRs in the global routing table carry control plane traffic; data plane traffic on VRF table.), and Option AB to the fourth description (ASBR peers are connected by multiple subinterfaces with at least one interface linked to a VRF.).

NEW QUESTION 569



Refer to the exhibit. AS2000 has deployed the BGP additional path feature. Assuming GP filtering has been deployed in any routers, how many entries does R1 have in the RIB/FFIB table for the 18.47.3.0/24 prefix?

- A. 1
- B. 2
- C. 3

Answer: B

NEW QUESTION 571

Which technology encapsulates customer Ethernet frames with a service provider MAC header?

- A. VPLS
- B. Q-in-Q
- C. MAC-in-MAC
- D. EVPN

Answer: C

NEW QUESTION 573

In the case of 6RD, how does the residential gateway device route the IPv6 packet received from local host?

- A. It looks into the local NAT table to translate the IPv6 address into an IPv4 address.
- B. It looks for the IPv6 destination in the local IPv6 routing table.
- C. It sends all the IPv6 traffic to the Border Relay router.
- D. It derives the IPv4 address from the IPv6 destination address.

Answer: D

NEW QUESTION 578

Which type of AAL does ATM utilize to deliver CBR traffic?

- A. AAL2
- B. AAL4
- C. AAL5
- D. AAL1
- E. AAL3

Answer: D

Explanation: An ATM Adaptation layer 1 or AAL1 is used for transmitting Class A traffic, that is, real-time, constant bit rate, connection oriented traffic (example-uncompressed audio and video). Bits are fed in by the application at constant rate and must be delivered to other end with minimum delay, jitter or overhead. The input is stream of bits without message boundaries. For this traffic, error detection protocols cannot be used since timeouts and retransmission causes delay but the missing cells are reported to the application, that must take its own action to recover from them.

NEW QUESTION 581

Which series of commands allow a port to transition to an up state in Cisco IOS XR when a non-OEM Cisco TenGigabit Ethernet receiver is installed?

- A. RP/0/RSP0/CPU0:ios#conf t RP/0/RSP0/CPU0:ios(config)#int gigabitEthernet 0/5/0/0 RP/0/RSP0/CPU0:ios(config-if)#transceiver permit pid all

RP/0/RSP0/CPU0:ios(config-if)#commit
 B. RP/0/RSP0/CPU0:ios#conf t RP/0/RSP0/CPU0:ios(config)#int tenGigE 0/5/0/0 RP/0/RSP0/CPU0:ios(config-if)#transceiver permit pid all
 RP/0/RSP0/CPU0:ios(config-if)#commit
 C. RP/0/RSP0/CPU0:ios#conf t RP/0/RSP0/CPU0:ios(config)#int tenGigE 0/5/0/0 RP/0/RSP0/CPU0:ios(config-if)#shut RP/0/RSP0/CPU0:ios(config-if)#commit
 RP/0/RSP0/CPU0:ios(config-if)#no shut RP/0/RSP0/CPU0:ios(config-if)#commit
 D. RP/0/RSP0/CPU0:ios#conf t RP/0/RSP0/CPU0:ios(config)#int gigabitEthernet 0/5/0/0 RP/0/RSP0/CPU0:ios(config-if)#speed 10000
 RP/0/RSP0/CPU0:ios(config-if)#commit

Answer: B

NEW QUESTION 586

Refer to the exhibit.

```

router bgp 13
  bgp confederation identifier 123
  bgp confederation peers 2
  bgp suppress-inactive
  network 11.11.11.11 mask 255.255.255.255
  neighbor 10.10.12.2 remote-as 2
  neighbor 10.10.12.2 advertise-map SUBNET_A non-exist-map SUBNET_B
  neighbor 10.10.13.3 remote-as 13

ip prefix-list SUBNET_A seq 5 permit 33.33.33.33/32
ip prefix-list SUBNET_B seq 5 permit 11.11.11.11/32

route-map SUBNET_A permit 10
  match ip address prefix-list SUBNET_A
route-map SUBNET_B permit 10
  match ip address prefix-list SUBNET_B

R1#show ip bgp 33.33.33.33
BGP routing table entry for 33.33.33.33/32, version 6
Paths: (1 available, best #1, table Default-IP-Routing-Table, RIB-
failure(17))
  Not advertised to any peer
  Local
    10.10.13.3 from 10.10.13.3 (33.33.33.33)
      Origin IGP, metric 0, localpref 100, valid, confed-internal, best

R1#show ip route 33.33.33.33
Routing entry for 33.33.33.33/32
  Known via "ospf 1", distance 110, metric 11, type intra area
  * 10.10.13.3, from 10.10.13.3, 00:02:42 ago, via FastEthernet0/1

R1#show ip route 11.11.11.11
Routing entry for 11.11.11.11/32
  Known via "connected", distance 0, metric 0 (connected, via interface)

R2#show ip bgp 33.33.33.33
* Network not in table
  
```

Based on the topology, the BGP configuration in R1, and the outputs from R1 and R2; identify why was subnet 33.33.33.33/32 not received on the R2 BGP table?

- A. R2 is not a route reflector client for R1.
- B. R1 is configured to suppress all inactive (RIB failure) routes.
- C. The 33.33.33.33/32 subnet must be learned through BGP.
- D. The 11.11.11.11/32 subnet exists in the routing table.

Answer: D

NEW QUESTION 589

Which two statements about spanning tree path cost are true? (Choose two.)

- A. The path cost can be changed for an interface using the spanning-tree cost command.
- B. The path cost can be changed for an interface using the stp path-cost command.
- C. The STP default path cost depends on the interface speed.
- D. The STP default path cost is similar for all interface.

Answer: AC

NEW QUESTION 590

What are three advantages of PPPoA implementation? (Choose three.)

- A. NAP and NSP provide secure access to corporate gateways without managing end-to-end PVC
- B. NAP and NSP use Layer 3 routing, Layer 2 Forwarding, or Layer 2 Tunneling Protocol tunnel
- C. Hence, they can scale their business models for selling wholesale service.
- D. Only a single session per CPE on one virtual channel (VC). The username and password are configured on the CPE, so all users behind the CPE for that particular VC can access only one set of service
- E. Users cannot select different sets of services, although using multiple VCs and establishing different PPP sessions on different VCs is possible.
- F. The NSP can oversubscribe by deploying idle and session timeouts using an industry standard RADIUS server for each subscriber.
- G. If a single IP address is provided to the CPE, and NAT or PAT is implemented, certain applications such as IPTV, which embed IP information in the payload, will not work
- H. Additionally, if an IP subnet feature is used, an IP address also has to be reserved for the CPE.
- I. PPPoA can use the features on the SSG.
- J. Cisco Service Selection Gateway is not compatible with PPPoA.

Answer: ACE

NEW QUESTION 591

Router 1 is a PE router within the MPLS core network. The router is designed to provide multicast VPN services for VRF A. A requirement of the core network prevents RP configuration and focuses on SSM for all multicast traffic. Consider this configuration:

```
Router 1
!
vrf definition A rd 1001:1001
!
address-family ipv4
route-target export 1001:1001
route-target import 1001:1001
mdt default 235.1.1.1
```

Which configuration is needed to support MDT?

- A. access-list 110 permit 235.1.1.1 0.0.0.0 ip pim ssm range 110
- B. access-list 110 permit 235.1.1.1 0.0.0.0 ip pim ssm default access-list 110
- C. access-list 10 permit 235.1.1.0 0.0.0.255 ip pim ssm range 10
- D. access-list 10 permit 235.1.1.0 0.0.0.255 ip pim ssm default access-list 10

Answer: C

NEW QUESTION 593

From the show interface output, which two options describe the two fields that are indicated as "unknown protocol drops"? (Choose two.)

- A. packet drops for protocols that are not configured on the interface
- B. packet drops for protocols that are not recognized by the interface
- C. packet drops for protocols that are not destined for the interface
- D. packet drops for protocols that are not sourced by the interface
- E. packet drops for protocols that are denied in the ACL attached on the interface

Answer: AB

NEW QUESTION 598

Refer to the exhibit.

```
Rack1SW1#show etherchannel summary
Flags:  D - down          P - bundled in port-channel
        I - stand-alone  s - suspended
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator

Group  Port-channel  Protocol  Ports
-----+-----+-----+-----
12     Po12(SU)         -         Fa0/13(s) Fa0/14(P)

interface FastEthernet0/13
description -- TO_R1 --
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 200,300,400,500
switchport mode trunk
load-interval 30
channel-group 12 mode on

interface FastEthernet0/14
description -- R1 --
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 100,200,300,400,500
switchport mode trunk
duplex auto
channel-group 12 mode on
```

Which action can fix the problem with the port channel?

- A. Unify interface descriptions on both interfaces.
- B. Unify load-interval on both interfaces.
- C. Add duplex full on interface F0/13.
- D. Add VLAN 100 to VLAN allowed list on Fa0/13.

Answer: D

NEW QUESTION 599

What is the function of the AJB bits on DS1 using Extended Super Frame (ESF)?

- A. It is used for signaling on-hook and off-hook status.
- B. It carries CRC information for error detection.
- C. It is used for a control and performance information.
- D. It is used for a frame's synchronization and alignment.

Answer: A

Explanation: DS1 frame synchronization[edit source | edit]

See also: Synchronization in telecommunications

Frame synchronization is necessary to identify the timeslots within each 24-channel frame. Synchronization takes place by allocating a framing, or 193rd, bit. This results in 8 kbit/s of framing data, for each DS1.

Because this 8-kbit/s channel is used by the transmitting equipment as overhead, only

1.536 Mbit/s is actually passed on to the user. Two types of framing schemes are Super Frame (SF) and Extended Super Frame (ESF). A Super Frame consists of twelve consecutive 193-bit frames, whereas an Extended Super Frame consists of twenty-four consecutive 193-bit frames of data. Due to the unique bit sequences exchanged, the framing schemes are not compatible with each other. These two types of framing (SF, and ESF) use their 8 kbit/s framing channel in different ways.

NEW QUESTION 604

Select the 3 best answers describing operation and configuration of Frame-Relay Inverse ARP.

- A. Dynamic address mapping uses Frame Relay Inverse ARP to request the next-hop protocol address for a specific connection on its known DLCI.
- B. Responses to Inverse ARP requests are entered in an address-to-DLCI mapping table on the router or access server which is used to supply the next-hop protocol address or the DLCI for outgoing traffic.
- C. Inverse ARP is enabled by default for all protocols enabled on the physical interface.
- D. Inverse ARP is configured using the following command under the Interface configuration 'frame-relay mapdlci (dcli number) protocol protocol-address'.
- E. Inverse ARP in Frame-Relay is synonymous of ARP in Ethernet.

Answer: ABC

NEW QUESTION 608

Which E3 alarm indicates that there could be an issue with the transmit signal with the local equipment?

- A. rxLoS
- B. rxLoF

- C. rxRAI
- D. txRAI
- E. txLoF
- F. txLoS

Answer: C

NEW QUESTION 613

Which three of these are types of Ethernet Virtual Connections (EVCs) in the MEF concept? (Choose three)

- A. rooted multipoint EVC (E-Tree)
- B. point-to-point EVC (E-Line)
- C. point-to-multipoint EVC (E-Tree)
- D. hub spoke EVC (E-Tree)
- E. multipoint-to-multipoint EVC (E-LAN)

Answer: ABE

Explanation: MEF Service

Ethernet Service Types can be used to create a broad range of Subscriber services. The service types are characterized by their required connectivity [10]. The following service types have been defined to date:

Ethernet Line Service (E-Line Service) uses a Point-to-Point EVC. The Ethernet LAN Service (E-LAN Service) uses a Multipoint-to-Multipoint EVC. The Ethernet Tree Service (E-TREE Service) uses a Rooted-Multipoint EVC.

NEW QUESTION 614

In inter-AS multicast, which two optional nontransitive path attributes were introduced in BGP to carry unicast and multicast routing information for RPF check at the AS borders? (Choose two.)

- A. MP_UNREACH_NLRI
- B. MP_REACH_NLRI
- C. FWDR_PREF Details
- D. MP_PERF_NLRI
- E. ORIGINATOR_ID

Answer: AB

NEW QUESTION 619

Which two statements best describe the functionality of the BGP graceful restart capability? (Choose two.)

- A. The peer router sends an end-of RIB message to the restarting router.
- B. The peer router immediately removes the BGP routes that it learned from the restarting router from its BGP routing table.
- C. The restarting router does not remove any stale prefixes after the timer for stale entries expires.
- D. The router establishes BGP sessions with other routers and relearns the BGP routes from other routers that are also capable of graceful restart.
- E. The restarting router waits to receive updates from the neighboring router.
- F. When the neighboring routers send end-of- RIB messages to indicate that they are done sending updates, the restarting router starts sending its own updates.
- G. The restarting router removes any stale prefixes after the timer for stale entries expires.

Answer: DE

NEW QUESTION 624

ATM carries IP and PPP information with ATM cells. What ATM adaptation Layer is used when an ATM cell carries IP packets and PPP frames?

- A. AAU2
- B. AAL3
- C. AAL4
- D. AAL5

Answer: D

NEW QUESTION 625

A service provider is using QoS to manage customer traffic over the MPLS backbone. Which three statements about the behavior of each MPLS QoS mode based on QoS policy in the service provider core are true? (Choose three.)

- A. Uniform mode does not change the original CE IP packet markings.
- B. Uniform mode changes the original CE IP packet markings.
- C. Pipe mode does not change the original CE IP packet markings.
- D. Pipe mode changes the original CE IP packet markings.
- E. Short-pipe mode does not change the original CE IP packet markings.
- F. Short-pipe mode changes the original CE IP packet markings.

Answer: BCE

NEW QUESTION 629

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