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NEW QUESTION: 1

How do endpoints inside an SD-Access network reach resources outside the fabric?

- A. a VRF fusion router is used to map resources in one VN to another VN
- B. Fabric borders use VRFs to map VNs to VRFs
- C. SD-Access transit links are used to transport encapsulated traffic from one fabric to another
- D. A fabric edge is used to de-encapsulate VXLAN traffic to normal IP traffic then transported over the outside network

Answer: B ([LEAVE A REPLY](#))

Explanation

<https://www.cisco.com/c/en/us/td/docs/solutions/CVD/Campus/cisco-sda-design-guide.html>

"Packets and frames sourced from inside the fabric and destined outside of the fabric are de-encapsulated by the border node"(not the edge node)

NEW QUESTION: 2

Refer to the exhibit. An architect must design a solution to connect the network behind R3 with the EIGRP network. Which mechanism should be included to avoid routing loops?

- A. down bit
- B. split horizon
- C. route tags
- D. summarization

Answer: (SHOW ANSWER)

Section: Advanced Addressing and Routing Solutions

NEW QUESTION: 3

When IPsec VPNs are designed, what is a unique requirement if support for IP Multicast is required?

- A. encapsulation of traffic with GRE or VTI

- B. IPsec forwarding using transport mode
- C. additional bandwidth for headend
- D. IPsec forwarding using tunnel mode

Answer: ([SHOW ANSWER](#))

Section: WAN for Enterprise Networks

Explanation/Reference:

NEW QUESTION: 4

Drag and drop the components in a Cisco SD-Access architecture from the left onto their descriptions on the right.

Answer:

NEW QUESTION: 5

Drag and drop the model driven telemetry characteristics from the left onto the mode they belong to on the right.

Answer:

Explanation

Graphical user interface, diagram Description automatically generated with medium confidence

NEW QUESTION: 6

Which two statements about VRRP object tracking are true? (Choose two)

- A. VRRP supports only interce tracking
- B. The VRRP interface priority must be manually configured by the administrator
- C. VRRP can track the status of interfaces and routes
- D. A VRRP group can track only one object at a time
- E. The priority of a VRRP device can change in accordance with the up or down status of a VRRP object

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 7

When IPsec VPNs are designed, what is a unique requirement if support for IP Multicast is required?

- A. encapsulation of traffic with GRE or VTI
- B. additional bandwidth for headend
- C. IPsec forwarding using transport mode
- D. IPsec forwarding using tunnel mode

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 8

An engineer must design a VPN solution for a company that has multiple branches connecting to a main office. What are two advantages of using DMVPN instead of IPsec tunnels to accomplish this task? (Choose two.)

- A. dynamic spoke-to-spoke tunnels
- B. support for AES 256-bit encryption
- C. lower traffic overhead
- D. support for anycast gateway
- E. greater scalability

Answer: A,E ([**LEAVE A REPLY**](#)**)**

NEW QUESTION: 9

Instructions

The main screen consists of two parts; the Main scenario and the Topology tabs. The main scenario describes TSHOOT.com test bed. The Topology tabs allow you to display the appropriate and select the trouble ticket.

To complete the item, you will first need to familiarize yourself with the TSHOOT.com test bed by clicking on the master scenario first and then the topologies tabs. Once you are familiar with the test bed and the topologies, you should start evaluating the trouble ticket. You will be presented with a Trouble Ticket scenario that will describe the fault condition. You will need to determine on which device the fault condition is located, to which technology the fault condition is related, and the solution to each trouble ticket. This will be done by answering three questions.

Ticket Selection

To begin, click on the Ticket on the Topology tabs.

Please note. Some of the questions will require you to use the scroll bar to see all options.

Fault Isolation

Read the ticket scenario to understand the fault condition.

Open the appropriate topology, based upon the ticket scenario.

Open the console of the desired device by clicking on that device in the topology, based upon your troubleshooting methodology.

Use the supported show, ping and trace commands to begin your fault isolation process.

Move to other devices as need by clicking on those devices within the topology.

Fault Identification

The trouble ticket will include three questions that you will need to answer:

1. Which device contains the fault
2. Which technology the fault condition is related to
3. What is the solution to the issue

To advance to the next question within the ticket click on "Next Question".

When you click "DONE", the trouble ticket will turn RED and will no longer be accessible.

You may also use the "Previous Question" button to review questions within that specific ticket.

To complete a trouble ticket, answer all three questions and click "DONE". This will store your response to the questions. Do not click on "DONE" unless you have answered all questions within the ticket.

Item Completion

Click the NEXT button on the bottom of the screen once a ticket is RED. This action moves you to the next item.

Scenario

The company has created the test bed network shown in the layer 2 and layer 3 topology exhibits. This network consists of four routers, two layer 3 switches and two layer 2 switches.

In the IPv4 layer 3 topology, R1, R2, R3, and R4 are running OSPF with an OSPF process number 1.

DSW1, DSW2 and R4 are running EIGRP with an AS of 10. Redistribution is enabled where necessary.

R1 is running a BGP AS with a number of 65001. This AS has an eBGP connection to AS 65002 in the ISP's network. Because the company's address space is in the private range, R1 is also providing NAT translations between the inside (10.1.0.0/16 & 10.2.0.0/16) networks and the outside (209.65.200.0/24) network.

ASW1 and ASW2 are layer 2 switches.

NTP is enabled on all devices with 209.65.200.226 serving as the master clock source.

The client workstations receive their IP address and default gateway via R4's DHCP server. The default gateway address of 10.2.1.254 is the IP address of HSRP group 10 which is running on DSW1 and DSW2.

In the IPv6 layer 3 topology R1, R2, and R3 are running OSPFv3 with an OSPF process number 6. DSW1, DSW2 and R4 are running RIPng process name RIP_ZONE. The two IPv6 routing domains, OSPF 6 and RIPng are connected via GRE tunnel running over the underlying IPv4 OSPF domain. Redistribution is enabled where necessary.

Recently the implementation group has been using the test bed to do a 'proof-of-concept' on several implementations. This involved changing the configuration on one or more of the devices. You will be presented with a series of trouble tickets related to issues introduced during these configurations.

The implementation group has been using the test bed to do a 'proof-of-concept' that requires both Client 1 and Client 2 to access the WEB Server at 209.65.200.241. After several changes to the network addressing, routing scheme, DHCP services, NTP services, and FHRP services, a trouble ticket has been opened indicating that Client 1 cannot ping the 209.65.200.241 address. Use the supported commands to isolate the cause of this fault and answer the following questions.

What is the solution to the fault condition?

A. In configuration mode, using the interface range port-channel 23, port-channel 24, then configure switchport trunk allowed vlan none followed by switchport trunk allowed vlan 10,20,200 commands.

B. In configuration mode, using the interface range port-channel 13, port-channel 23, then configure switchport trunk allowed vlan none followed by switchport trunk allowed vlan 10,200 commands.

C. In configuration mode, using the interface range port-channel 23, port-channel 24, then configure switchport trunk allowed vlan none followed by switchport trunk allowed vlan 10,20, commands.

D. In configuration mode, using the interface range port-channel 13, port-channel 23, then configure switchport trunk allowed vlan 10,200 followed by interface FastEthernet 1/0/1, then no shutdown commands.

Answer: B ([LEAVE A REPLY](#))

Solution

Steps need to follow as below:-1.When we check on client 1 & Client 2 desktop we are not receiving DHCP address from R4Ipconfig ----- Client will be getting 169.X.X.X2.On ASW1 port Fa1/0/ 1 & Fa1/0/2 access port VLAN 10 was assigned which is using IPaddress 10.2.1.0/24Sh run ----- & check for running config of int fa1/0/1 &

fa1/0/2=====interface

FastEthernet1/0/1switchport mode accessswitchport access vlan 10interface

FastEthernet1/0/2switchport mode accessswitchport access vlan 10

3.We need to check on ASW 1 trunk port the trunk Po13 & Po23 were receiving VLAN 20 &200 but not VLAN

10 so that switch could not get DHCP IP address and was failing to reach IPaddress of Internet4.

Change required:

On ASW1 below change is required for switch-to-switch connectivity..int range

portchannel13,portchannel23switchport trunk allowed vlan noneswitchport trunk allowed vlan 10,200

NEW QUESTION: 10

Refer to the exhibit. Which two solutions maximize the use of the links between the core and distribution layers? (Choose two.)

A. use multiple equal-cost links

B. use an IGP

C. use HSRP

D. use RPVSTP+

E. use multiple unequal-cost links

Answer: (SHOW ANSWER)

Section: Advanced Enterprise Campus Networks

NEW QUESTION: 11

An engineer is designing a multicast network for a company specializing in VoD content.

Receivers are across the Internet, and for performance reasons, the multicast framework close to the receivers within each AS. For high availability, if the sources in one AS are no longer

available, the receivers of that AS must be able to receive the VoD content from sources in another AS. Which feature must the design include?

- A. Bidirectional PIM
- B. SSM
- C. Anycast RP
- D. MSDP

Answer: (SHOW ANSWER)

<https://learningnetwork.cisco.com/s/question/0D53i00000KsrGrCAJ/rendezvous-point-high-availability-mechanisms>

NEW QUESTION: 12

A customer's current Layer 2 infrastructure is running Spanning Tree 802.1d, and all configuration changes are manually implemented on each switch. An architect must redesign the Layer 2 domain to achieve these goals:

- reduce the impact of topology changes
- reduce the time spent on network administration
- reduce manual configuration errors

Which two solutions should the architect include in the new design? (Choose two.)

- A. Implement MST instead of STP.
- B. Use VTP to propagate VLAN information and to prune unused VLANs.
- C. Implement Rapid PVST+ instead of STP.
- D. Configure broadcast and multicast storm control on all switches.
- E. Configure dynamic trunking protocol to propagate VLAN information.

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 13

Refer to the exhibit.

A customer is running HSRP on the core routers. Over time the company has grown and requires more network capacity. In the current environment, some of the downstream interfaces are almost fully utilized, but others are not. Which solution improves the situation?

- A. Add more interfaces to R1 and R2.
- B. Make router R2 active for half of the VLANs.
- C. Enable RSTP on the downstream switches.
- D. Configure port channel toward downstream switches.

Answer: B (LEAVE A REPLY)

NEW QUESTION: 14

Refer to the exhibit.

An engineer must optimize the traffic flow of the network. Which change provides a more efficient design between the access and the distribution layer?

- A. Change the link between distribution switch A and distribution switch B to be a routed link

- B. Add a link between access switch A and access switch B
- C. Create an EtherChannel link between distribution switch A and distribution switch B
- D. Reconfigure the distribution switch A to become the HSRP Active

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 15

An organization plans to deploy multicast across two different autonomous systems. Their solution must allow RPs to:

- *discover active sources outside their domain
- *use the underlying routing information for connectivity with other RPs
- *announce sources joining the group

Which solution supports these requirements?

- A. MSDP
- B. SSM
- C. PIM-SM
- D. PIM-DM

Answer: A ([LEAVE A REPLY](#))

Explanation

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xe-3s/asr903/imc-pim-xe-3s-asr90

NEW QUESTION: 16

Refer to the exhibit.

An architect must design an IP addressing scheme for a multisite network connected via a WAN transit. The campus site must accommodate 12,000 devices and the branch sites must accommodate 1,000 devices. Which address scheme optimizes network device resources, contains convergence events to the different blocks of the network, and ensures future growth of the network?

- A. * Campus: 10.0.0.0/10
 - * Branch1: 10.64.0.0/10
 - * Branch2: 10.128.0.0/10
- B. * Campus: 10.0.0.0/18
 - * Branch1: 10.0.192.0/21
 - * Branch2: 10.0.200.0/21
- C. * Campus: 10.0.0.0/16
 - * Branch1: 10.255.0.0/20
 - * Branch2: 10.255.16.0/20
- D. * Campus: 10.0.0.0/20
 - * Branch1: 10.0.64.0/21
 - * Branch2: 10.0.128.0/21

Answer: B ([LEAVE A REPLY](#))

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<https://www.braindumpsPASS.com/Cisco/300-420-practice-exam-dumps.html> (341 Q&As Dumps, **40%OFF** Special Discount: **Exam-Tests**)

NEW QUESTION: 17

An engineer must design a QoS solution for a customer that is connected to an ISP over a 1Gbps link with a 100Mbps CIR. The ISP aggressively drops all traffic received over which is causing numerous TCP retransmissions. The customer is not using any RTP applications but wants to maximize bandwidth usage up to the CIR. Which QoS solution engineer choose?

- A. Policing
- B. Traffic shaping
- C. Policer with markdown
- D. Queuing

Answer: A ([LEAVE A REPLY](#))

<https://www.cisco.com/c/en/us/support/docs/quality-of-service-qos/qos-policing/19645-policevsshape.html>

NEW QUESTION: 18

An engineer must design a VPN solution for a company that has multiple branches connecting to a main office.

What are two advantages of using DMVPN instead of IPsec tunnels to accomplish this task? (Choosetwo.)

- A. dynamic spoke-to-spoke tunnels
- B. support for anycast gateway
- C. greater scalability
- D. support for AES 256-bit encryption
- E. lower traffic overhead

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 19

Which feature is required for graceful restart to recover from a processor failure?

- A. Cisco Express Forwarding
- B. Virtual Switch System
- C. Stateful Switchover
- D. Bidirectional Forwarding Detection

Answer: C ([LEAVE A REPLY](#))

Explanation

https://archive.nanog.org/meetings/nanog42/presentations/Weissner_SSO.pdf The Stateful Switchover (SSO) feature works with Nonstop Forwarding (NSF) in Cisco software to minimize the amount of time a network is unavailable to its users following a switchover. The primary objective of SSO is to improve the availability of networks constructed with Cisco routers.

NEW QUESTION: 20

Which feature is required for graceful restart to recover from a processor failure?

- A. Cisco Express Forwarding
- B. Virtual Switch System
- C. Stateful Switchover
- D. Bidirectional Forwarding Detection

Answer: C ([LEAVE A REPLY](#))

https://archive.nanog.org/meetings/nanog42/presentations/Weissner_SSO.pdf

NEW QUESTION: 21

Refer to the exhibit. PC-2 failed to establish a Telnet connection to the Terminal Server. Which solution allows PC-2 to establish the Telnet connection?

- A. Gateway-Router(config)#ipv6 access-list Default_Access
Gateway-Router(config-ipv6-acl)#sequence 15 permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet
- B. Gateway-Router(config)#ipv6 access-list Default_Access
Gateway-Router(config-ipv6-acl)#permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet
- C. Gateway-Router(config)#ipv6 access-list Default_Access
Gateway-Router(config-ipv6-acl)#no sequence 20
Gateway-Router(config-ipv6-acl)#sequence 5 permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet
- D. Gateway-Router(config)#ipv6 access-list Default_Access
Gateway-Router(config-ipv6-acl)#sequence 25 permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 22

An architect is designing a network that will utilize the spanning tree protocol to ensure a loop-free topology.

The network will support an engineering environment where it is necessary for end users to connect their own network switches for testing purposes. Which feature should the architect include in the design to ensure the spanning tree topology is not affected by these rogue switches?

- A. BPDU Skew Detection
- B. BPDU guard
- C. loop guard
- D. root guard

Answer: D ([LEAVE A REPLY](#))

Section: Advanced Enterprise Campus Networks

NEW QUESTION: 23

See the solution below

Explanation/Reference:

There are two ways to configure interVLAN routing in this case:

- + Use RouterC as a "router on a stick" and SwitchC as a pure Layer2 switch. Trunking must be established between RouterC and SwitchC.

- + Only use SwitchC for interVLAN routing without using RouterC, SwitchC should be configured as a Layer 3 switch (which supports ip routing function as a router). No trunking requires.

The question clearly states "No trunking has been configured on RouterC" so RouterC does not contribute to interVLAN routing of hosts H1 & H2 -> SwitchC must be configured as a Layer 3 switch with SVIs for interVLAN routing.

We should check the default gateways on H1 & H2. Click on H1 and H2 and type the "ipconfig" command to get their default gateways.

Answer:

```
\>ipconfig
```

We will get the default gateways as follows:

Host1:

- + Default gateway: 190.200.250.33

Host2:

- + Default gateway: 190.200.250.65

Now we have enough information to configure SwitchC (notice the EIGRP AS in this case is 650)

Note: VLAN2 and VLAN3 were created and gi0/10, gi0/11 interfaces were configured as access ports so we don't need to configure them in this sim.

```
SwitchC# configure terminal
```

```
SwitchC(config)# int gi0/1
```

```
SwitchC(config-if)#no switchport -> without using this command, the simulator does not let you assign IP address on Gi0/1 interface.
```

```
SwitchC(config-if)# ip address 10.10.10.2 255.255.255.0 ->RouterC has used IP 10.10.10.1 so this is the lowest usable IP address.
```

```
SwitchC(config-if)# no shutdown
```

```
SwitchC(config-if)# exit
```

```
SwitchC(config)# int vlan 2
```

```
SwitchC(config-if)# ip address 190.200.250.33 255.255.255.224
```

```
SwitchC(config-if)# no shutdown
```

```
SwitchC(config-if)# int vlan 3
SwitchC(config-if)# ip address 190.200.250.65 255.255.255.224
SwitchC(config-if)# no shutdown
SwitchC(config-if)#exit
SwitchC(config)# ip routing (Notice: MLS will not work without this command) SwitchC(config)#
router eigrp 65010 SwitchC(config-router)# network 10.10.10.0 0.0.0.255 SwitchC(config-router)#
network 190.200.250.32 0.0.0.31 SwitchC(config-router)# network 190.200.250.64 0.0.0.31
```

NOTE: THE ROUTER IS CORRECTLY CONFIGURED, so you will not miss within it in the exam, also don't modify/delete any port just do the above configuration. Also some reports said the "no auto-summary" command can't be used in the simulator, in fact it is not necessary because the network 190.200.0.0/16 is not used anywhere else in this topology.

In order to complete the lab, you should expect the ping to SERVER to succeed from the MLS, and from the PCs as well.

Also make sure you use the correct EIGRP AS number (in the configuration above it is 650 but it will change when you take the exam) but we are not allowed to access RouterC so the only way to find out the EIGRP AS is to look at the exhibit above. If you use wrong AS number, no neighbor relationship is formed between RouterC and SwitchC.

In fact, we are pretty sure instead of using two commands "network 190.200.250.32 0.0.0.31" and "network

190.200.250.64 0.0.0.31" we can use one simple command "network 190.200.0.0" because it is the nature of distance vector routing protocol like EIGRP: only major networks need to be advertised; even without "no auto-summary" command the network still works correctly. But in the exam the sim is just a flash based simulator so we should use two above commands, just for sure. But after finishing the configuration, we can use "show run" command to verify, only the summarized network 190.200.0.0 is shown.

NEW QUESTION: 24

How is end-to-end microsegmentation enforced in a Cisco SD-Access architecture?

- A. SGTs and SGTACLs are used to control access to various resources.
- B. 5-tuples and ACLs are used to permit or deny traffic.
- C. VRFs are used to segment traffic at Layer 3.
- D. VLANs are used to segment traffic at Layer 2.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 25

Which method will filter routes between EIGRP neighbors within the same autonomous system?

- A. policy-based routing
- B. route tagging
- C. distribute-list
- D. leak-map

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 26

When designing interdomain multicast, which two protocols are deployed to achieve communication between multicast sources and receivers? (Choose two.)

- A. IGMPv2
- B. MSDP
- C. MP-BGP
- D. MLD
- E. BIDIR-PIM

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 27

Which solution allows overlay VNs to communicate with each other in an SD-WAN Architecture?

- A. External fusion routers can be used to map VNs to VRFs and selectively route traffic between VRFs.
- B. GRE tunneling can be configured between fabric edges to connect one VN to another.
- C. SGTs can be used to permit traffic from one VN to another.
- D. Route leaking can be used on the fabric border nodes to inject routes from one VN to another.

Answer: ([SHOW ANSWER](#)**)**

Section: WAN for Enterprise Networks

NEW QUESTION: 28

Refer to the exhibit. Where must an architect plan for route summarization for the topology?

- A. from the aggregation toward the access and the access toward the aggregation
- B. from the core toward the aggregation and the access toward the aggregation
- C. from the core toward the aggregation and the aggregation toward the core
- D. from the aggregation toward the core and the aggregation toward the access

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 29

Which two steps can be taken to improve convergence in an OSPF network? (Choose two.)

- A. Span the same IP network across multiple areas.
- B. Make all non-backbone areas stub areas
- C. Merge all the areas into one backbone area
- D. Tune OSPF parameters
- E. Use Bidirectional Forwarding Detection

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 30

A customer with an IPv4 only network topology wants to enable IPv6 connectivity while preserving the IPv4 topology services. The customer plans to migrate IPv4 services to the IPv6 topology, then decommission the IPv4 topology. Which topology supports these requirements?

- A. dual stack
- B. 6VPE
- C. 6to4
- D. NAT64

Answer: A ([LEAVE A REPLY](#))

Section: Advanced Addressing and Routing Solutions

NEW QUESTION: 31

An engineer must design a multicast network for a financial application. Most of the multicast sources also receive multicast traffic (many-to-many deployment model). To better scale routing tables, the design must not use source trees. Which multicast protocol satisfies these requirements?

- A. PIM-SM
- B. PIM-SSM
- C. MSDP
- D. BIDIR-PIM

Answer: D ([LEAVE A REPLY](#))

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<https://www.braindumpsPASS.com/Cisco/300-420-practice-exam-dumps.html> (341 Q&As Dumps, **40%OFF** Special Discount: **Exam-Tests**)

NEW QUESTION: 32

Drag and drop the descriptions from the left onto the corresponding VPN types on the rights.

Answer:

NEW QUESTION: 33

An infrastructure team is concerned about the shared memory utilization of a device, and for this reason, they need to monitor the device state. Which solution limits impact on the device and provides the required data?

- A. IPFIX
- B. static telemetry
- C. on-change subscription

D. periodic subscription

Answer: C ([LEAVE A REPLY](#))

Explanation

There are two types of subscriptions: periodic and on-change. With periodic subscription, data is streamed out to the destination at the configured interval. It continuously sends data for the lifetime of that subscription.

With on-change, data is published only when a change in the data occurs such as when an interface or OSPF neighbor goes down.

<https://developer.cisco.com/docs/ios-xe/#!streaming-telemetry-quick-start-guide/streaming-telemetry>

NEW QUESTION: 34

Drag and drop the characteristics from the left onto the telemetry mode they apply to on the right.

Answer:

NEW QUESTION: 35

Which design consideration must be made when dual WAN Edge routers are deployed at a branch site?

- A. Use BGP AS-path prepending to influence egress traffic and use MED to influence ingress traffic from the branch.
- B. HSRP priorities must match the OMP routing policy to prefer one WAN Edge over the other.
- C. Traffic must be symmetrical as it egresses the WAN Edges and returns from remote sites for DPI to function properly.
- D. Configure BFD between WAN Edge routers to detect sub-second link failures.

Answer: A ([LEAVE A REPLY](#))

Section: WAN for Enterprise Networks

NEW QUESTION: 36

How are wireless endpoints registered in the HTDB in a Cisco SD-Access architecture?

- A. Border nodes first register endpoints and then update the HTDB
- B. Fabric WLCs update the HTDB as new clients connect to the wireless network
- C. Fabric edge nodes update the HTDB based on CAPPWAP messaging from the AP
- D. Fabric APs update the HTDB with the clients' EID and RLOC

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 37

Refer to the exhibit.

EIGRP has been configured on all links. The spoke nodes have been configured as EIGRP stubs, and the WAN links to R3 have higher bandwidth and lower delay than the links to R4. When a link failure occurs at the R1-R2 link, what happens to traffic on R1 that is destined for a subnet attached to R2?

- A. R1 forwards the traffic to R3, but R3 drops the traffic
- B. R1 load-balances across the paths through R3 and R4 to reach R2
- C. R1 forwards the traffic to R3 in order to reach R2
- D. R1 has no route to R2 and drops the traffic

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 38

An infrastructure team is concerned about the shared memory utilization of a device, and for this reason, they need to monitor the device state. Which solution limits impact on the device and provides the required data?

- A. IPFIX
- B. on-change subscription
- C. periodic subscription
- D. static telemetry

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 39

An engineer is designing a Layer 3 campus network running EIGRP between the core, aggregation, and access layers. The access layer switches will be connected to the aggregation layer using Layer 3 copper connections. The engineer wants to improve convergence time for access layer switch failures. Which technique must the design include?

- A. enabling BFD for EIGRP on the access layer uplinks
- B. reducing the EIGRP Hello / Hold timer values
- C. EIGRP summarization from core to aggregation layer
- D. EIGRP summarization from access to aggregation layer

Answer: A ([LEAVE A REPLY](#))

Section: Advanced Enterprise Campus Networks

NEW QUESTION: 40

An engineer must design an addressing plan for a small business using a single /24 network. Each department must have its own subnet. Drag and drop the subnets from the left onto the departments requirements that they fulfill on the right. Not all options are used.

Answer:

NEW QUESTION: 41

An engineer must design a scalable QoS architecture that allows the separation of the traffic into classes on predefined business requirements. The design must also utilize the differentiated services code points as the QoS priority descriptor value and support at least 10 levels of classification. Which QoS technology should the engineer include in the design?

- A. Interserv
- B. Best effort

- C. RSVP
- D. Diffserv

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 42

Drag and drop the characteristics from the left onto the Yang model they describe on the right.

Answer:

NEW QUESTION: 43

A client is moving to Model-Driven Telemetry and requires periodic updates. What must the network architect consider with this design?

- A. Empty data subscriptions do not generate empty update notifications.
- B. Updates that contain changes within the data are sent only when changes occur.
- C. Periodic updates include a full copy of the data that is subscribed to.
- D. The primary push update is sent immediately and cannot be delayed.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 44

Refer to the exhibit.

An architect must design an IGP solution for an enterprise customer. The design must support: Physical link flaps should have minimal impact.

Access routers should converge quickly after a link failure.

Which two ISIS solutions should the architect include in the design? (Choose two.)

- A. Use BGP to IS-IS redistribution to advertise all Internet routes in the Level 1 area.
- B. Configure access routers to establish a Level 1 adjacency and aggregate routers to establish a Level 1 / Level 2 adjacency.
- C. Configure all access and aggregate routers to establish Level 1 / Level 2 adjacencies across the network.
- D. Reduce SPF and PRC intervals to improve convergence time.
- E. Advertise the IS-IS interface and loopback IP address toward the Internet and data center.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 45

What is the purpose of a control plane node in a Cisco SD-Access network fabric?

- A. to maintain the endpoint database and mapping between endpoints and edge nodes
- B. to detect endpoints in the fabric and inform the host tracking database of EID-to-fabric-edge node bindings
- C. to identify and authenticate endpoints within the network fabric
- D. to act as the network gateway between the network fabric and outside networks

Answer: B ([LEAVE A REPLY](#))

<https://www.cisco.com/c/en/us/td/docs/solutions/CVD/Campus/cisco-sda-design-guide.html>

NEW QUESTION: 46

An engineer is working for a large cable TV provider that requires multiple sources streaming video on different channels using multicast with no rendezvous point. Which multicast protocol meets these requirements?

- A. BIDIR-PIM
- B. PIM-SM
- C. any-source multicast
- D. PIM-SSM

Answer: D ([LEAVE A REPLY](#))

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<https://www.braindumpsPASS.com/Cisco/300-420-practice-exam-dumps.html> (341 Q&As Dumps, **40%OFF** Special Discount: **Exam-Tests**)

NEW QUESTION: 47

Which control-plane technology allows the same subnet to exist across multiple network locations?

- A. LISP
- B. VXLAN
- C. FabricPath
- D. ISE mobility services

Answer: B ([LEAVE A REPLY](#))

Section: WAN for Enterprise Networks

NEW QUESTION: 48

Instructions

The main screen consists of two parts; the Main scenario and the Topology tabs. The main scenario describes TSHOOT.com test bed. The Topology tabs allow you to display the appropriate and select the trouble ticket.

To complete the item, you will first need to familiarize yourself with the TSHOOT.com test bed by clicking on the master scenario first and then the topologies tabs. Once you are familiar with the test bed and the topologies, you should start evaluating the trouble ticket. You will be presented with a Trouble Ticket scenario that will describe the fault condition. You will need to determine on which device the fault condition is located, to which technology the fault condition is related, and the solution to each trouble ticket. This will be done by answering three questions.

Ticket Selection

To begin, click on the Ticket on the Topology tabs.

Please note. Some of the questions will require you to use the scroll bar to see all options.

Fault Isolation

Read the ticket scenario to understand the fault condition.

Open the appropriate topology, based upon the ticket scenario.

Open the console of the desired device by clicking on that device in the topology, based upon your troubleshooting methodology.

Use the supported show, ping and trace commands to begin your fault isolation process.

Move to other devices as need by clicking on those devices within the topology.

Fault Identification

The trouble ticket will include three questions that you will need to answer:

1. Which device contains the fault
2. Which technology the fault condition is related to
3. What is the solution to the issue

To advance to the next question within the ticket click on "Next Question".

When you click "DONE", the trouble ticket will turn RED and will no longer be accessible.

You may also use the "Previous Question" button to review questions within that specific ticket.

To complete a trouble ticket, answer all three questions and click "DONE". This will store your response to the questions. Do not click on "DONE" unless you have answered all questions within the ticket.

Item Completion

Click the NEXT button on the bottom of the screen once a ticket is RED. This action moves you to the next item.

Scenario

The company has created the test bed network shown in the layer 2 and layer 3 topology exhibits.

This network consists of four routers, two layer 3 switches and two layer 2 switches.

In the IPv4 layer 3 topology, R1, R2, R3, and R4 are running OSPF with an OSPF process number 1.

DSW1, DSW2 and R4 are running EIGRP with an AS of 10. Redistribution is enabled where necessary.

R1 is running a BGP AS with a number of 65001. This AS has an eBGP connection to AS 65002 in the ISP's network. Because the company's address space is in the private range, R1 is also providing NAT translations between the inside (10.1.0.0/16 & 10.2.0.0/16) networks and the outside (209.65.200.0/24) network.

ASW1 and ASW2 are layer 2 switches.

NTP is enabled on all devices with 209.65.200.226 serving as the master clock source.

The client workstations receive their IP address and default gateway via R4's DHCP server. The default gateway address of 10.2.1.254 is the IP address of HSRP group 10 which is running on DSW1 and DSW2.

In the IPv6 layer 3 topology R1, R2, and R3 are running OSPFv3 with an OSPF process number 6. DSW1, DSW2 and R4 are running RIPng process name RIP_ZONE. The two IPv6 routing domains, OSPF 6 and RIPng are connected via GRE tunnel running over the underlying IPv4 OSPF domain. Redistribution is enabled where necessary.

Recently the implementation group has been using the test bed to do a 'proof-of-concept' on several implementations. This involved changing the configuration on one or more of the devices. You will be presented with a series of trouble tickets related to issues introduced during these configurations.

The implementation group has been using the test bed to do a 'proof-of-concept' that requires both Client 1 and Client 2 to access the WEB Server at 209.65.200.241. After several changes to the network addressing, routing schemes, DHCP services, NTP services, and FHRP services, a trouble ticket has been opened indicating that Client 1 cannot ping the 209.65.200.241 address. Use the supported commands to isolate the cause of this fault and answer the following questions.

On which device is the fault condition located?

- A. R1
- B. R2
- C. R3
- D. R4
- E. DSW1
- F. DSW2
- G. ASW1
- H. ASW2

Answer: G (LEAVE A REPLY)

Steps need to follow as below:-1. When we check on client 1 & Client 2 desktop we are not receiving DHCP address from R4. Ipconfig ----- Client will be getting 169.X.X.X. On ASW1 port Fa1/0/1 & Fa1/0/2 access port VLAN 10 was assigned which is using IP address 10.2.1.0/24. Sh run ----- & check for running config of int fa1/0/1 &

fa1/0/2=====interface

FastEthernet1/0/1 switchport mode access switchport access vlan 10 interface

FastEthernet1/0/2 switchport mode access switchport access vlan 10

3. We need to check on ASW 1 trunk port the trunk Po13 & Po23 were receiving VLAN 20 & 200 but not VLAN

10 so that switch could not get DHCP IP address and was failing to reach IP address of Internet 4.

Change required:

On ASW1 below change is required for switch-to-switch connectivity..int range

port-channel13, port-channel23 switchport trunk allowed vlan none switchport trunk allowed vlan 10,200

NEW QUESTION: 49

Refer to the exhibit. An architect reviews the low-level design of a company's enterprise network and advises optimizing the STP convergence time. Which functionality must be to Gi1/0/1-10 to follow the architect's recommendation?

- A. BPDU guard
- B. UplinkFast
- C. PortFast
- D. root guard

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 50

A customer has several remote sites connected with their headquarters through microwave links. An engineer must propose a backup WAN solution based on these conditions:
Which backup WAN link type the engineer recommend?

- A. Laser link
- B. 802.16 WiMAX
- C. LTE
- D. 802.15.1 Bluetooth

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 51

An architect is working on a design to connect a company's main site to several small to medium-sized remote branches. The solution must include redundant WAN links, but the customer has a limited budget and wants the ability to increase the link speed easily in the future. QoS will not on the branch routers so there is no need for consistent end-to-end QoS. Which solution does the architect propose?

- A. dual-homed Internet with a single edge router running a site-to-site VPN topology
- B. dual-homed Internet with dual edge routers running a hub-and-spoke VPN topology
- C. dual-homed WAN MPLS with single edge router
- D. dual-homed WAN MPLS and Internet links via dual edge routers

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 52

Which consideration must be taken into account when using the DHCP relay feature in a Cisco SD-Access Architecture?

- A. DHCP-relay must be enabled on fabric edge nodes to provide the correct mapping of DHCP scope to the local anycast gateway.
- B. A DHCP server must be enabled on the border nodes to allow subnets to span multiple fabric edges.
- C. DHCP servers must support Cisco SD-Access extensions to correctly assign IPs to endpoints in an SD-Access fabric with anycast gateway.

D. DHCP Option-82 must be enabled to map the circuit IP option to the access fabric node where the DHCP discover originated.

Answer: D ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/network-automation-and-management/dna-center/tech_notes/sda_dhcp/b_cisco_sda_dhcp.html

NEW QUESTION: 53

Refer to the exhibit. An IPv6 network was just deployed in the environment and the help desk has reported that R3 is not able to SSH to R2's Loopback interface. Which sequence number of the filter is preventing access?

- A.** 70
- B.** 20
- C.** 10
- D.** 30

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 54

Refer to the exhibit. An engineer is designing an OSPF network for a client. Requirements dictate that the routers in Area 1 should receive all routes belonging to the network, including EIGRP, except the ones originated in the RIP domain. Which action should the engineer take?

- A.** Make area 1 a NSSA.
- B.** Make area 1 a stub.
- C.** Make area 1 a standard OSPF area.
- D.** Make the area 1 routers part of area 0.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 55

An existing network solution is using BFD in echo mode. Several of the network devices are experiencing high CPU utilization which an engineer has determined is related to the BFD feature. Which solution should the engineer leverage to reduce the CPU load?

- A.** Implement slow timers between peers with low CPU resources.
- B.** Implement BED asynchronous mode between peers with low CPU resources.
- C.** Utilize carrier delay on all routers in the network.
- D.** Enable BFD multi-hop on the devices with low CPU resources.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 56

A customer with an IPv4 only network topology wants to enable IPv6 connectivity while preserving the IPv4 topology services. The customer plans to migrate IPv4 services to the IPv6 topology, then decommission the IPv4 topology. Which topology supports these requirements?

- A.** NAT64

- B. 6VPE
- C. dual stack
- D. 6to4

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 57

An engineer must propose a solution for a campus network that includes the capability to create multiple Layer 3 virtual networks. Each network must have its own addressing structure and routing table for data forwarding. The solution must be scalable to support hundreds of virtual networks and allow simple configuration and management with minimal administrative overhead. Which solution does the engineer recommend?

- A. multihop IPsec tunneling
- B. hop-by-hop EVN
- C. multihop MPLS core
- D. hop-by-hop VRF-Lite

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 58

Refer to the exhibit. The distribution switches serve as the layer 3 boundary. HSRP preemption is enabled. When the primary switch comes back after a failure, traffic is initially dropped. Which solution must be implemented to improve the design?

- A. Configure a higher mac-refresh interval on both HSRP devices
- B. Increase the hello timers on both HSRP devices
- C. Use the preempt delay feature on the primary HSRP device.
- D. Use the preempt delay feature on the backup HSRP device

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 59

A customer's current Layer 2 infrastructure is running Spanning Tree 802.1d, and all configuration changes are manually implemented on each switch. An architect must redesign the Layer 2 domain to achieve these goals:

- * reduce the impact of topology changes
- * reduce the time spent on network administration
- * reduce manual configuration errors

Which two solutions should the architect include in the new design? (Choose two.)

- A. Implement Rapid PVST+ instead of STP.
- B. Configure broadcast and multicast storm control on all switches.
- C. Use VTP to propagate VLAN information and to prune unused VLANs.
- D. Configure dynamic trunking protocol to propagate VLAN information.
- E. Implement MST instead of STP.

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 60

An engineer must propose a QoS architecture model that allows an application to inform the network of its traffic profile and to request a particular type of service to support its bandwidth and delay requirements. The application requires consistent and dedicated bandwidth end to end. Which QoS architecture model meets these requirements?

- A. WRED
- B. DiffServ
- C. LLQ
- D. IntServ

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 61

The customer solution requires QoS to support streaming multimedia over a WAN. An architect chooses to use Per-Hop Behavior. Which solution should the engineer use to mark traffic traveling between branch sites?

- A. LLQ with DSCP AF4
- B. CBWFQ with DSCP AF3
- C. LLQ with DSCP EF
- D. CBWFQ with DSCP AF2

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 62

A global organization with several branches hired a network architect to design an overlay VPN solution. The branches communicate with each other frequently. The customer expects to add more branches in the future.

To meet the customer's security requirements, the architect plans to provide traffic protection using dynamic IPsec tunnels. Which solution should the architect choose?

- A. DMVPN
- B. GETVPN
- C. L2TP
- D. EasyVPN

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 63

Refer to the exhibit. The connection between SW2 and SW3 is fiber and occasionally experiences unidirectional link failure. An architect must optimize the network to reduce the change of layer2 forwarding loops when the link fails. Which solution should the architect include?

- A. Utilize BPDU guard on SW1
- B. Utilize root guard on SW1.
- C. Utilize 8PDU filter on SW3.
- D. Utilize loop guard on SW2

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 64

You have executed the following commands on switchA:

What is the result of executing the given commands? (Choose two.)

- A. Only the listed RADIUS server is used for authentication
- B. 802.1X authentication is enabled on the Fa0/1 interface only
- C. The key for the RADIUS server is firstKey111
- D. AAA is not enabled on the switch

Answer: ([SHOW ANSWER](#))

A default list is used for the RADIUS server for authentication and the key for the RADIUS server is firstKey111. A RADIUS server combines the authentication and authorization processes.

Before you configure the RADIUS server, you should enable AAA by using the `aaa new-model` command in the global configuration mode. Then, you can specify the location of the RADIUS server and the key using the `radius-server host` command. In this case, the RADIUS server is located at the IP address 192.168.105.67 and requires the key firstKey111 as the encryption key. This key must be mutually agreed upon by the server and the clients.

The `aaa authentication dot1x default group radius` command creates a method list for 802.1X authentication.

The default group radius keywords specify that the default method will be to use all listed RADIUS servers to authenticate clients. Since only one is listed, it will be the only one used.

It is incorrect to state that 802.1X authentication is enabled on the Fa0/1 interface only. The interface range Fa

0/1 - 11 and the `dot1x port-control auto` commands specify that 802.1X authentication is enabled on the interfaces Fa0/1 to Fa0/11.

It is incorrect to stat that AAA is not enabled on the switch. The `aaa new-model` command enables AAA globally on the switch.

Objective:

Infrastructure Security

Sub-Objective:

Describe device security using Cisco IOS AAA with TACACS+ and RADIUS

References:

Catalyst 4500 Series Switch Cisco IOS Software Configuration Guide, 12.2(31)SG > Configuring 802.1X Port- Based Authentication Cisco IOS LAN Switching Command Reference (PDF)

NEW QUESTION: 65

An organization plans to deploy multicast across two different autonomous systems. Their solution must allow RPs to:

- * discover active sources outside their domain
- * use the underlying routing information for connectivity with other RPs
- * announce sources joining the group

Which solution supports these requirements?

- A. MSDP
- B. SSM
- C. PIM-SM
- D. PIM-DM

Answer: ([SHOW ANSWER](#))

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xr-3s/asr903/imc-pim-xr-3s-asr903-book/imc_msdp.pdf

NEW QUESTION: 66

Which type of rendezvous point deployment is standards-based and supports dynamic RP discovery?

- A. Anycast-RP
- B. bootstrap router
- C. static RP
- D. Auto-RP

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 67

When a network is designed using IS-IS protocol, which two circuit types are supported? (Choose two.)

- A. nonbroadcast multiaccess
- B. multiaccess
- C. point-to-multipoint
- D. nonbroadcast
- E. point-to-point

Answer: B,E ([LEAVE A REPLY](#))

Section: Advanced Addressing and Routing Solutions

NEW QUESTION: 68

Which two techniques improve the application experience in a Cisco SD-WAN design? (Choose two.) utilizing forward error correction

- A. utilizing quality of service
- B. implementing AMP
- C. implementing Cisco Umbrella
- D. implementing a stateful application firewall

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 69

A branch office has a primary L3VPN MPLS connection back to the main office and an IPSEC VPN tunnel that serves as backup. Which design ensures that data is sent over the backup connection only if the primary MPLS circuit is down?

- A. Use EIGRP to establish a neighbor relationship with the main office via L3VPN MPLS and the IPSEC VPN tunnel.
- B. Use OSPF with a passive-interface
- C. Use static routes tied to an IP SLA to prefer the primary path while a floating static route points to the backup connection.
- D. Use BGP with the multipath feature enabled to force traffic via the primary path when available.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 70

A network engineer is redesigning a company's QoS solution. The company is currently using IP Precedence, but the engineer plans to move to DiffServ. It is important that the new solution provide backward compatibility with the current solution. Which technology should the design include?

- A. expedited forwarding
- B. assured forwarding
- C. class selector code points
- D. default per hop behavior

Answer: C ([LEAVE A REPLY](#))

Section: Network Services

NEW QUESTION: 71

Refer to the exhibit. Which two solutions maximize the use of the links between the core and distribution layers? (Choose two.)

- A. use multiple equal-cost links
- B. use multiple unequal-cost links
- C. use RPVSTP+
- D. use HSRP
- E. use an IGP

Answer: A,E ([LEAVE A REPLY](#))

NEW QUESTION: 72

Refer to the exhibit. All routers currently reside in OSPF area 0. The network manager recently used R1 and R2 as aggregation routers for remote branch locations and R3 and R4 for aggregation routers for remote office locations. The network has since been suffering from outages, which are causing frequent SPF runs. To enhance stability and introduce areas to the OSPF network with the minimal number of ABRs possible, which two solutions should the network manager recommend? (Choose two.)

- A.** a new OSPF area for R3 and R4 connections, with R5 and R6 as ABRs
- B.** a new OSPF area for R3 and R4 connections, with R3 and R4 as ABRs
- C.** a new OSPF area for R1, R2, R3, and R4 connections, with R1, R2, R3, and R4 as ABRs
- D.** a new OSPF area for R1 and R2 connections, with R5 and R6 as ABRs
- E.** a new OSPF area for R1 and R2 connections, with R1 and R2 as ABRs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 73

Drag and drop the characteristics from the left onto the configuration protocols they describe on the right.

Answer:

NEW QUESTION: 74

Drag and drop the elements from the left onto the YANG models where they are used on the right.

Answer:

Explanation

Diagram Description automatically generated

NEW QUESTION: 75

An engineer must design a QoS solution for a customer that is connected to an ISP over a 1Gbps link with a 100Mbps CIR. The ISP aggressively drops all traffic received over which is causing numerous TCP retransmissions. The customer is not using any RTP applications but wants to maximize bandwidth usage up to the CIR. Which QoS solution engineer choose?

- A.** Policing
- B.** Traffic shaping
- C.** Policer with markdown
- D.** Queuing

Answer: A ([LEAVE A REPLY](#))

Explanation

<https://www.cisco.com/c/en/us/support/docs/quality-of-service-qos/qos-policing/19645-policevsshape.html>

NEW QUESTION: 76

Which type of rendezvous point deployment is standards-based and support dynamic RP discovery?

- A. static RP
- B. Auto-RP
- C. bootstrap router
- D. Anycast-RP

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 77

Refer to the exhibit. An architect is designing a BGP solution to connect a remote branch to a service provider.

There are several prefixes within the branch that the company does not want to be advertised to the internet.

Which solution should the architect use to accomplish this?

- A. Implement the NOPEER community.
- B. Use the BGP No-Advertise community for the prefixes to exclude.
- C. Attach the No-Export community with the prefixes to exclude
- D. Set the BGP Internet community for all prefixes.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 78

Which two border nodes are available in the Cisco SD-Access architecture? (Choose two.)

- A. edge border
- B. anywhere border
- C. internal border
- D. extended border
- E. intermediate border

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 79

An engineer must design a scalable QoS architecture that allows the separation of the traffic into classes on predefined business requirements. The design must also utilize the differentiated services code points as the QoS priority descriptor value and support at least 10 levels of classification. Which QoS technology should the engineer include in the design?

- A. RSVP
- B. DiffSery
- C. Best Effort
- D. InterServ

Answer: ([SHOW ANSWER](#))

Section: Network Services

NEW QUESTION: 80

What is the purpose of a control plane node in a Cisco SD-Access network fabric?

- A. to maintain the endpoint database and mapping between endpoints and edge nodes
- B. to act as the network gateway between the network fabric and outside networks
- C. to detect endpoints in the fabric and inform the host tracking database of EID-to-fabric-edge node bindings
- D. to identify and authenticate endpoints within the network fabric

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 81

What is the function of the multicast Reverse Path Forwarding check?

- A. It prevents bootstrap messages from reaching all routers.
- B. It is used to discover and announce RP-set information.
- C. It allows for a loop-free distribution tree from the source to receivers.
- D. It serves as an Auto RP Mapping agent.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 82

Refer to the exhibit. An engineer is designing an OSPF network for a client. Requirements dictate that the routers in Area 1 should receive all routes belonging to the network, including EIGRP, except the ones originated in the RIP domain. Which action should the engineer take?

- A. Make area 1 a NSSA.
- B. Make area 1 a stub.
- C. Make area 1 a standard OSPF area.
- D. Make the area 1 routers part of area 0.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 83

Refer to the exhibit. Area 10 is a regular OSPF area and networks 10.1.1.0/24 and 172.16.1.0/24 are internal.

Which design provides optimal routing between both networks when the link between routers C and E fails?

- A. Move the link between routers C and D to area 10.
- B. Create an OSPF virtual link between routers E and F.
- C. Create a tunnel between routers E and F in area 10.
- D. Make area 10 a not-so-stubby area.

Answer: A ([LEAVE A REPLY](#))

Section: Advanced Addressing and Routing Solutions

Explanation/Reference:

NEW QUESTION: 84

A company's security policy requires that all connections between sites be encrypted in a manner that does not require maintenance of permanent tunnels. The sites are connected through a private MPLS-based service that uses a dynamically changing key and spoke-to-spoke communication. Which type of transport encryption must be used in this environment?

- A. GETVPN
- B. GRE VPN
- C. standard IPsec VPN
- D. DMVPN

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 85

A customer's environment includes hosts that support IPv6-only. Several of these hosts must communicate with a public web server that has only IPv4 domain name resolution. Which solution should the customer use in this environment?

- A. utilize NAT64 to translate the addresses
- B. implement 6PE to resolve hostname resolution
- C. use 6to4 and a tunnel to translate the addresses
- D. Implement NAT44 at the edge of the customer network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 86

Drag and drop the description from the left onto the corresponding WAN connectivity types and categories on the right.

Answer:

Explanation

Diagram Description automatically generated

NEW QUESTION: 87

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

Answer:

Explanation

In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dialin mode is supported over gRPC in only 64-bit platforms In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

NEW QUESTION: 88

Drag and drop the properties from the left onto the Cisco SD-WAN components that perform them on the right.

Answer:

Explanation

Graphical user interface, application Description automatically generated

NEW QUESTION: 89

Refer to the exhibit. An engineer is designing a BGP solution for a client that peers with ISP1 for full Internet connectivity and with ISP2 for direct exchange of routes for several third parties. Which action, when implemented on the edge routers, enables the client network to reach the Internet through ISP1?

- A. Run an eBGP session within different VRFs for each ISP.
- B. Advertise a default route for downstream routers within the client network.
- C. Apply the AS-path prepend feature for ISP2.
- D. Apply route filtering such that the client advertises only routes originated from its own AS.

Answer: B ([LEAVE A REPLY](#))

Section: WAN for Enterprise Networks

NEW QUESTION: 90

Refer to the exhibit.

An engineer is designing a routing solution for a customer. The design must ensure that a failure of network

10.1.0.0/24, 10.1.2.0/24, 10.2.1.0/24, or 10.2.3.0/24 does not impact the core. It also requires fast convergence time during any link failover in the core or access networks. Which solution must the engineer select?

- A. Enable FRR for the connected networks of routers A and C.
- B. Add aggregation layer between core and access networks.
- C. Enable graceful restart on routers A and C.
- D. Enable summarization on routers A and C.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 91

A company is using OSPF between its HQ location and a branch office. HQ is assigned area 0 and the branch office is assigned area 1. The company purchases a second branch office, but due to circuit delays to HQ, it decides to connect the new branch office to the existing branch office as a temporary measure. The new branch office is assigned to area 2. Which OSPF configuration enables all three locations to exchange routes?

- A. The existing branch office must be configured as a stub area
- B. A virtual link must be configured between the new branch office and HQ
- C. A sham link must be configured between the new branch office and HQ
- D. The new branch office must be configured as a stub area

Answer: B ([LEAVE A REPLY](#))

Section: Advanced Addressing and Routing Solutions

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NEW QUESTION: 92

Drag and drop the properties from the left onto the protocols they describe on the right.

Answer:

NEW QUESTION: 93

Which two statements about VRRP advertisements are true? (Choose two.)

- A. They include priority information.
- B. They are sent every three seconds by default.
- C. They are sent only from the master router.
- D. They include VRRP timer information.
- E. They are sent from the master router and standby routers.

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 94

Which feature must be incorporated into the campus LAN design to enable Wake on LAN?

- A. directed broadcasts on layer 3 devices
- B. dynamic ARP Inspection Snooping on layer 2 devices
- C. DHCP Snooping on layer 2 devices

D. proxy ARP on layer 3 devices

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 95

The implementations group has been using the test bed to do a 'proof-of-concept' that requires both Client 1 and Client 2 to access the WEB Server at 209.65.200.241. After several changes to the network addressing, routing scheme, DHCP services, NTP services, layer 2 connectivity, FHRP services, and device security, a trouble ticket has been opened indicating that Client 1 cannot ping the 209.65.200.241 address.

Use the supported commands to isolated the cause of this fault and answer the following questions.

What is the solution to the fault condition?

- A. Enable OSPF authentication on the s0/0/0 interface using the ip ospf authentication message-digest command
- B. Enable OSPF routing on the s0/0/0 interface using the network 10.1.1.0 0.0.0.255 area 12 command.
- C. Enable OSPF routing on the s0/0/0 interface using the network 209.65.200.0 0.0.0.255 area 12 command.
- D. Redistribute the BGP route into OSPF using the redistribute BGP 65001 subnet command.

Answer: ([SHOW ANSWER](#))

On R1, for IPV4 authentication of OSPF the command is missing and required to configure----- ip ospf authentication message-digest

NEW QUESTION: 96

Refer to the exhibit.

C0FD9 F48C9ACDC725EA850EC2476EE1E

An architect must design a solution that uses the direct link between R1 and R2 for traffic from 10.10.10.0/24 toward network 10.10.20.0/24. Which solution should the architect include in the design?

- A. Lower the Administrative Distance for OSPF area 0.
- B. Place the link into area 2 and install a new link between R1 and R2 in area 0.
- C. Configure the link to provide multiarea adjacency.
- D. Configure the OSPF cost of the link to a value lower than 30.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 97

Which function are fabric intermediate nodes responsible for in an SD-Access Architecture?

- A. mapping EIDs to RLOCs
- B. encapsulating user traffic in a VXLAN header including the SGT
- C. registering new endpoints in the HTDB
- D. transporting IP packets between edge nodes and border nodes

Answer: D ([LEAVE A REPLY](#))

Section: Advanced Enterprise Campus Networks

NEW QUESTION: 98

A company is running BGP on a single router, which has two connections to the same ISP. Which BGP feature ensures traffic is load balanced across the two links to the ISP?

- A. AS-Path Prepending
- B. Multihop
- C. Multipath Load Sharing
- D. Next-Hop Address Tracking

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 99

An engineer is working for a large cable TV provider that requires multiple sources streaming video on different channels using multicast with no rendezvous point. Which multicast protocol meets these requirements?

- A. any-source multicast
- B. BIDIR-PIM
- C. PIM-SSM
- D. PIM-SM

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 100

Refer to the exhibit. An engineer is designing an OSPF network for a client. Requirements dictate that the routers in Area 1 should receive all routes belonging to the network, including EIGRP, except the ones originated in the RIP domain. Which action should the engineer take?

- A. Make the area 1 routers part of area 0.
- B. Make area 1 a stub.
- C. Make area 1 a standard OSPF area.
- D. Make area 1 a NSSA.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 101

A global organization with several branches hired a network architect to design an overlay VPN solution. The branches communicate with each other frequently. The customer expects to add more branches in the future. To meet the customer's security requirements, the architect plans to provide traffic protection using dynamic IPsec tunnels. Which solution should the architect choose?

- A. DMVPN
- B. EasyVPN
- C. GETVPN

D. L2TP

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 102

An ISP provides Layer 3 VPN service over MPLS to a customer with four branches and multiple CE routers at each branch. To exchange the routes that are learned from the CE routers, which BGP address family should the ISP activate among the PE routers?

- A.** address-family multicast
- B.** L2VPN EVPN
- C.** VPNv4 unicast
- D.** IPv4 unicast

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 103

Drag and drop the elements from the left onto the functions they perform in the Cisco SD-WAN architecture on the right.

Answer:

Explanation

Table Description automatically generated

NEW QUESTION: 104

Refer to the exhibit. The full EIGRP routing table is advertised throughout the network. Currently, users experience data loss when any one link in the network fails. An architect optimizes the network to reduce the impact when a link fails. Which solution should the architect include in the design?

- A.** Summarize the access layer networks from each access layer switch toward the aggregation layer
- B.** Reduce the default EIGRP hello interval and hold time
- C.** Run BFD on the inter links between EIGRP neighbors.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 105

An engineer must design an in-band management solution for a customer with branch sites. The solution must allow remote management of the branch sites using management protocols over an MPLS WAN. Queueing is implemented at the remote sites using these classes:

How must the solution prioritize the management traffic over the WAN?

- A.** Mark the traffic with DSCP EF and map into Class1 with a minimum bandwidth assigned by reducing the bandwidth available to Class2.
- B.** Mark the traffic with DSCP CS1 and map into Class2 with a minimum bandwidth assigned by reducing the bandwidth available to Class3.

C. Mark the traffic with DSCP CS2 and map into Class2 with a minimum bandwidth assigned by reducing the bandwidth available to Class3

D. Mark the traffic with DSCP CS6 and map into Class1 with a minimum bandwidth assigned by reducing the bandwidth available to Class2

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 106

An architect is designing a network that will utilize the spanning tree protocol to ensure a loop-free topology.

The network will support an engineering environment where it is necessary for end users to connect their own network switches for testing purposes. Which feature should the architect include in the design to ensure the spanning tree topology is not affected by these rogue switches?

A. root guard

B. loop guard

C. BPDU guard

D. BPDU Skew Detection

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 107

Which design element should an engineer consider when multicast is included in a Cisco SD-Access architecture?

PIM SSM must run in the underlay.

Multicast clients reside in the underlay, and the multicast source is outside the fabric or in the overlay.

A. Rendezvous points must be used in a PIM SSM deployment.

B. Multicast traffic is transported in the overlay and the EID space for wired and wireless clients.

C. Section: Network Services

Answer: **B** ([LEAVE A REPLY](#))

Explanation

Explanation/Reference:

Reference:

NEW QUESTION: 108

Drag and drop the descriptions from the left onto the Cisco SD-WAN component they describe on the right.

Answer:

Explanation

Answer Area

is responsible for traffic forwarding, security, encryption, QoS, and routing protocols distributes routes and policy information via OMP enables centralized provisioning and simplifies network changes enables the communication of devices that sit behind NAT

NEW QUESTION: 109

How is internet access provided to a WAN edge router that is connected to a MPLS transport link?

- A.** Internet access must be provided at the WAN Edge router through either a 4G/5G link or local Internet circuit
- B.** An extranet must be provided in the MPLS transport network to allow private traffic to reach the public internet
- C.** OMP advertises a default route from a WAN Edge router that is connected to the MPLS and internet transport networks
- D.** TLOC extensions are used to route traffic to a WAN Edge router that is connected to the Internet transport network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 110

Refer to the exhibit. All routers currently reside in OSPF area 0. The network manager recently used R1 and R2 as aggregation routers for remote branch locations and R3 and R4 for aggregation routers for remote office locations. The network has since been suffering from outages, which are causing frequent SPF runs. To enhance stability and introduce areas to the OSPF network with the minimal number of ABRs possible, which two solutions should the network manager recommend? (Choose two.)

- A.** a new OSPF area for R1, R2, R3, and R4 connections, with R1, R2, R3, and R4 as ABRs
- B.** a new OSPF area for R1 and R2 connections, with R5 and R6 as ABRs
- C.** a new OSPF area for R3 and R4 connections, with R3 and R4 as ABRs
- D.** a new OSPF area for R3 and R4 connections, with R5 and R6 as ABRs
- E.** a new OSPF area for R1 and R2 connections, with R1 and R2 as ABRs

Answer: B,D ([LEAVE A REPLY](#))

NEW QUESTION: 111

An engineer is designing an EIGRP network for a small branch site where there is only one Layer 3 router. The engineer wants the router to advertise the local LAN network to remote EIGRP neighbors without sending any unnecessary multicast messages on the local LAN. Which action should the engineer take?

- A. Redistribute the local LAN network using the redistribute connected command
- B. Advertise the local LAN subnet as a stub network
- C. Use a static default route for this site instead of EIGRP
- D. Advertise the local LAN using the network command and the passive-interface feature

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 112

Refer to the exhibit. MTU has been configured as shown, and no MTU command has been configured on the tunnel interfaces. It has been found that fragmentation is occurring when tunneled packets are placed onto the IPv6 underlay network. Which configuration change will resolve this problem?

- A. Set the MTU to 1476 on the tunnel interfaces
- B. Increase the MTU on the IPv4 networks
- C. Increase the MTU on the IPv6 network
- D. Set the MTU to 1500 on the tunnel interfaces

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 113

Which solution allows overlay VNs to communicate with each other in an SD-WAN Architecture?

- A. SGTs can be used to permit traffic from one VN to another.
- B. External fusion routers can be used to map VNs to VRFs and selectively route traffic between VRFs.
- C. Route leaking can be used on the fabric border nodes to inject routes from one VN to another.
- D. GRE tunneling can be configured between fabric edges to connect one VN to another.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 114

Drag and drop the characteristics from the left onto the telemetry mode they apply to on the right.

Answer:

NEW QUESTION: 115

Which control-plane technology allows the same subnet to exist across multiple network locations?

- A. ISE mobility services
- B. FabricPath
- C. LISP
- D. VXLAN

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 116

Refer to the exhibit. Area 10 is a regular OSPF area and networks 10.1.1.0/24 and 172.16.1.0/24 are internal. Which design provides optimal routing between both networks when the link between routers C and E fails?

- A.** Create an OSPF virtual link between routers E and F.
- B.** Move the link between routers C and D to area 10.
- C.** Create a tunnel between routers E and F in area 10.
- D.** Make area 10 a not-so-stubby area.

Answer: **B** ([LEAVE A REPLY](#))

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