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Cisco 300-410 Exam is a certification test that is designed to validate the knowledge and skills of IT professionals who are involved in implementing advanced routing and services in enterprise-level networks. 300-410 exam is part of the Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation certification track and is intended for network engineers, system engineers, and other IT professionals who are responsible for designing, implementing, and maintaining complex enterprise networks.

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Cisco Implementing Cisco Enterprise Advanced Routing and Services Sample Questions (Q463-Q468):

NEW QUESTION # 463

Drag and drop the LDP features from the left onto the descriptions on the right

implicit null label	provides ways of improving load balancing by eliminating the need for DPI at transit LSRs
explicit null label	LSR receives an MPLS header with the label set to 3
inbound label binding filtering	packet is encapsulated in MPLS with the option of copying the IP precedence to EXP bits
entropy label	controls the amount of memory used to store LDP label bindings advertised by other devices

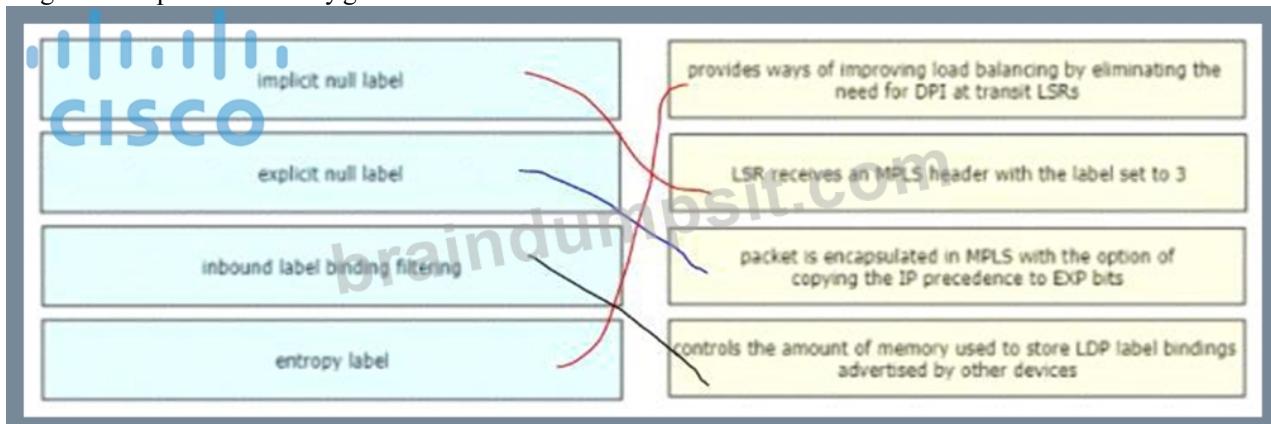
Answer:

Explanation:

implicit null label	entropy label
explicit null label	implicit null label
inbound label binding filtering	explicit null label
entropy label	inbound label binding filtering

Explanation

Diagram Description automatically generated



The MPLS LDP Inbound Label Binding Filtering feature can be used to control the amount of memory used to store Label Distribution Protocol (LDP) label bindings advertised by other devices. For example, in a simple Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) environment, the VPN provider edge (PE) devices might require label switched paths (LSPs) only to their peer PE devices (that is, they do not need LSPs to core devices). Inbound label binding filtering enables a PE device to accept labels only from other PE devices.

Reference:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_ldp/configuration/15-sy/mp-ldp-15-sy-boo-k/mp-ldp-inbound-filtr.html

NEW QUESTION # 464

Drag and Drop the IPv6 First-Hop Security features from the left onto the definitions on the right.

IPv6 DHCPv6 Guard	Block a malicious host and permit the router from a legitimate route.
IPv6 Binding Table	Block reply and advertisement messages from unauthorized DHCP servers and relay agents.
IPv6 Source Guard	Create a binding table that is based on NS and NA messages.
IPv6 RA Guard	Filter inbound traffic on Layer 2 switch ports that are not in the IPv6 binding table.
IPv6 ND Inspection	Create IPv6 neighbors connected to the device from information sources such as NDP snooping.

Answer:

Explanation:



Explanation

Graphical user interface, chart Description automatically generated



NEW QUESTION # 465

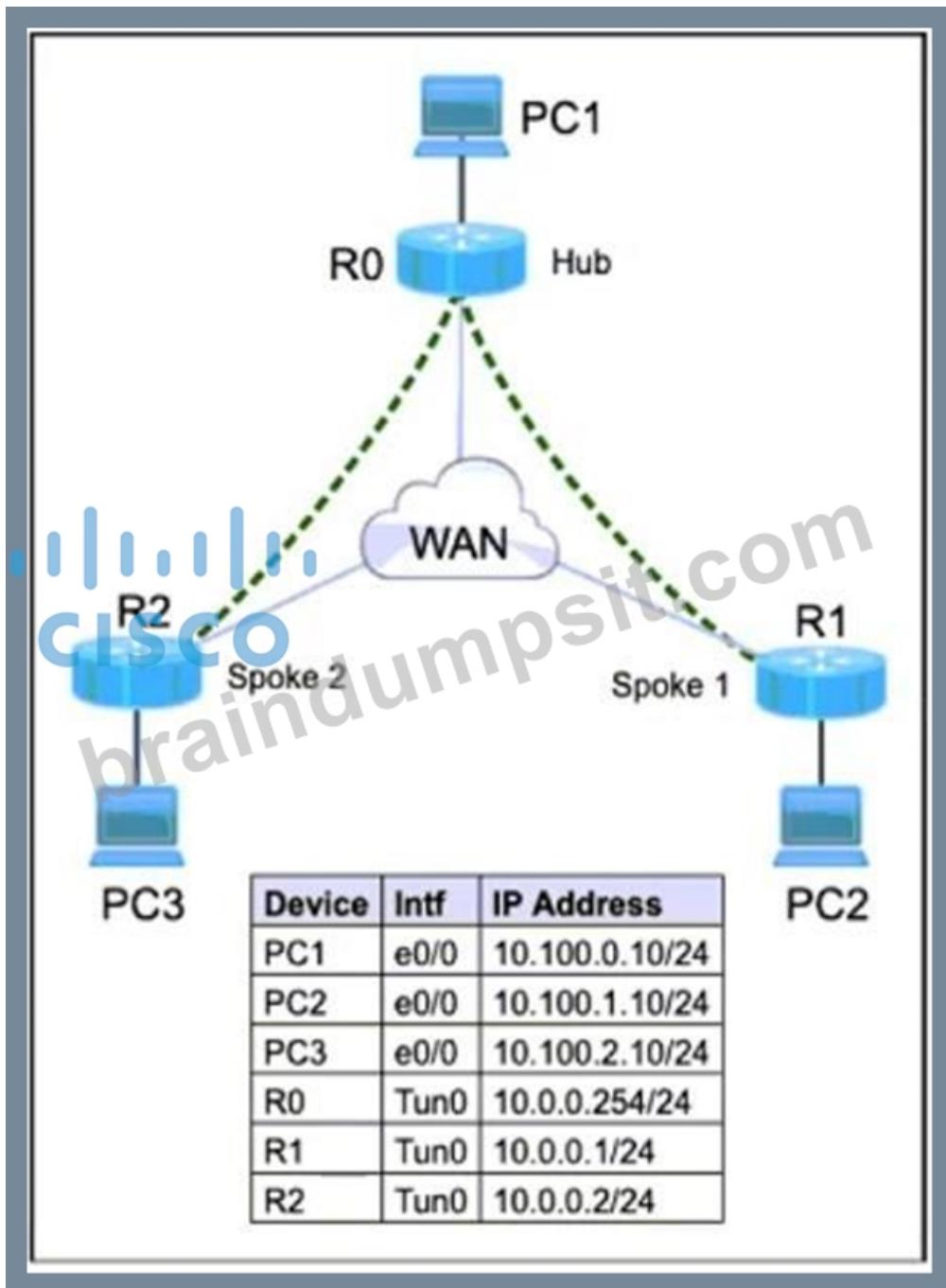
LAB SIMULATION 10

Guidelines

This is a lab item in which tasks will be performed on virtual devices.

- Refer to the Tasks tab to view the tasks for this lab item.
- Refer to the Topology tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- Save your configurations to NVRAM before moving to the next item.
- Click Next at the bottom of the screen to submit this lab and move to the next question.
- When Next is clicked, the lab closes and cannot be reopened.

Topology



Tasks

Configure IPSec security policy on tunnel interfaces to ensure data confidentiality and integrity where mGRE tunnels are up and running between HUB and SPOKE routers.

1. Configure the ISAKMP policy parameters with the following attributes:

- AES256
- SHA256
- Group2
- lifetime 86400

2. Ensure that GRE IP Header should be encrypted inside the IPSec packet. Verify IPSec security association and ISAKMP encrypted key. Use ISAKMP key "abc123".

3. Configure a flexible ISAKMP Policy on the HUB to add peers that have the dynamic IP addresses where SPOKES must add HUB IP static entry using an encrypted key. Use a single command to configure it. Use IPSec phase-2 transform-set name as T-SET and IPSec Profile name as 'IPSEC-PROFILE'.

Answer:

Explanation:

Routers R0, R1, R2:

```
crypto isakmp policy 10
  encr AES256
  hash SHA256
  group 2
  lifetime 8640
```

```
crypto ipsec transform-set T-SET esp-aes 256 esp-sha-hmac
crypto ipsec profile IPSEC-PROFILE
  set transform-set T-SET
```

R0:

```
crypto isakmp key abc123 address 0.0.0.0 0.0.0.0
```

```
interface Tunnel0
```

```
  ip address 10.0.0.254 255.255.255.0
```

```
  tunnel source HUB IP ADDRESS – Get this from the CLI on the SIM
```

```
  tunnel mode gre multipoint
```

```
  tunnel protection ipsec profile IPSEC-PROFILE
```

R1, R2:

```
crypto isakmp key abc123 address HUB IP ADDRESS – Get this from the CLI on the SIM.
```

R1 only:

```
interface Tunnel0
```

```
  ip address 10.0.0.1 255.255.255.0
```

```
  tunnel source SPOKE1_IP_ADDRESS - Get from CLI
```

```
  tunnel destination HUB_IP_ADDRESS – Get from CLI
```

```
  tunnel mode gre multipoint
```

```
  tunnel protection ipsec profile IPSEC-PROFILE
```

R2 only:

```
interface Tunnel0
```

```
  ip address 10.0.0.2 255.255.255.0
```



tunnel source SPOKE2_IP_ADDRESS – Get from CLI

tunnel destination HUB_IP_ADDRESS – Get from CLI

tunnel mode gre multipoint

tunnel protection ipsec profile IPSEC-PROFILE

Verification:

show crypto isakmp sa

show crypto ipsec sa

NEW QUESTION # 466

Refer to the exhibit. An engineer examines the BGP update for the IPv6 prefix 2001:db8::1/128.

which should have been summarized into a /64 prefix. Which sequence of actions achieves the summarization?

```
R1#show bgp ipv6 unicast 2001:db8::1/128
BGP routing table entry for 2001:db8::1/128, version 3
Paths: (1 available, best #1, table Global-IPv6-Table)
  Not advertised to any peer
  Local
    2001:db8:33:33::33 (metric 128) from 2001:db8:11:11::11 (1.1.1.1)
      Origin IGP, metric 0, localpref 100, valid, internal, best
      Originator: 3.3.3.3, Cluster list: 1.1.1.1
```

- A. R1 is a route reflector with a router ID of 3.3.3.3, and the originator of the prefix is a route reflector client, which has a router ID of 3.3.3.3. Both routers belong to the same AS Configure an aggregate address on the router with ID 1.1.1.1 for the prefix
- B. R1 is a route reflector client of a RR with a router ID of 1.1.1.1, and the originator of the prefix has a router ID of 3.3.3.3. Both routers belong to different ASs. The prefix is not advertised to any peer and must be advertised using the network statement on R3.
- C. R1 is a route reflector client of a RR with a router ID of 1.1.1.1, and the originator of the prefix has a router ID of 3.3.3.3. Both routers belong to the same AS. Configure an aggregate address on the router with ID 3.3.3.3 for the prefix.
- D. R1 is a route reflector with a router ID of 1.1.1.1, and the originator of the prefix is a route reflector client, which has a router ID of 3.3.3.3. Both routers belong to the same AS Configure an aggregate address on the router with ID 1.1.1.1 for the prefix

Answer: C

NEW QUESTION # 467

Refer to the exhibit. An engineer configures two ASBRs, 10.4.17.6 and 10.4.15.5, in an OSPF network to redistribute routes from EIGRP. However, both ASBRs show the EIGRP routes as equal costs even though the next-hop router 10.4.17.6 is closer to R1. How should the network traffic to the EIGRP prefixes be sent via 10.4.17.6?

```
R1#show ip route ospf
```

```
10.0.0.0/24 is subnetted, 7 subnets
```

```
O E2 10.4.9.0 [110/200] via 10.4.17.6, 00:06:43,  
FastEthernet0/0
```

```
          [110/200] via 10.4.15.5, 00:06:43,  
FastEthernet0/1
```

```
O IA 10.4.27.0 [110/2] via 10.4.15.5, 00:06:44,  
FastEthernet0/1
```

```
O E2 10.4.49.0 [110/200] via 10.4.17.6, 00:06:43,  
FastEthernet0/0
```

- A. The ASBR 10.4.17.6 should assign a tag to match and assign a lower metric on R1.
- B. The administrative distance should be raised to 120 from the ASBR 10.4.17.6.
- C. The administrative distance should be raised to 120 from the ASBR 10.4.15.5.
- D. The redistributed prefixes should be advertised as Type 1.

Answer: D

NEW QUESTION # 468

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