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Cisco 300-410 Certification Exam is designed for IT professionals who want to validate their skills and knowledge in advanced routing and services for enterprise networks. 300-410 exam is part of the Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation certification track and is intended for professionals who have experience with enterprise network infrastructures.

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Cisco 300-410 exam is a proctored exam that consists of 60-70 multiple-choice questions. Candidates have 90 minutes to complete the exam. 300-410 exam is available in English and Japanese. To pass the exam, candidates must score at least 825 out of 1000. 300-410 Exam Fee is \$400.

Cisco Implementing Cisco Enterprise Advanced Routing and Services Sample Questions (Q172-Q177):

NEW QUESTION # 172

Refer to the exhibit.

```

Router#show ip bgp vpnv4 rd 1100:1001 10.30.116.0/23
BGP routing table entry for 1100:1001/10.30.116.0/23, version 26765275
Paths: (9 available, best #6, no table)
Advertised to update-groups:
  1      2      3
(65001 64955 65003) 65089, (Received from a RR-client)
172.16.254.226 (metric 20645) from 172.16.224.236 (172.16.224.236)
  Origin IGP, metric 0, localpref 100, valid, confed-internal
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
(65008 64955 65003) 65089
172.16.254.226 (metric 20645) from 10.131.123.71 (10.131.123.71)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
(65001 64955 65003) 65089
172.16.254.226 (metric 20645) from 172.16.216.253 (172.16.216.253)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
(65001 64955 65003) 65089
172.16.254.226 (metric 20645) from 172.16.216.252 (172.16.216.252)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
(64955 65003) 65089
172.16.254.226 (metric 20645) from 10.77.255.57 (10.77.255.57)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
(64955 65003) 65089
172.16.254.226 (metric 20645) from 10.57.255.11 (10.57.255.11)
  Origin IGP, metric 0, localpref 100, valid, confed-external, best
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362

```

```

(64955 65003) 65089
172.16.254.226 (metric 20645) from 172.16.224.253 (172.16.224.253)
  Origin IGP, metric 0, localpref 100, valid, confed-internal
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
(65003) 65089
172.16.254.226 (metric 20645) from 172.16.254.234 (172.16.254.234)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/362
65089, (Received from a RR-client)
172.16.228.226 (metric 20645) from 172.16.228.226 (172.16.228.226)
  Origin IGP, metric 0, localpref 100, valid, confed-internal
  Extended Community: RT:1100:1001
  mpls labels in/out no-label/276

```

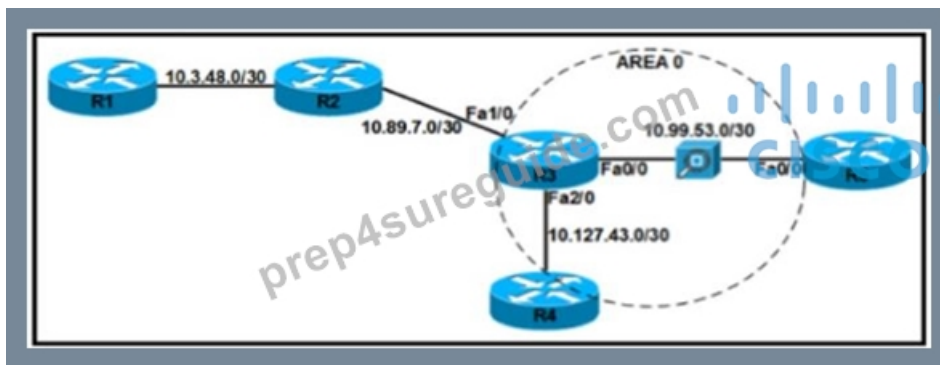
Refer to the exhibit. An engineer configured BGP and wants to select the path from 10.77.255.57 as the best path instead of current best path. Which action resolves the issue?

- A. Configure higher MED to select as the best path.
- B. Configure lower LOCAL_PREF to select as the best path.
- C. Configure AS_PATH prepend for the current best path
- D. Configure AS_PATH prepend for the desired best path

Answer: C

NEW QUESTION # 173

Refer to the exhibit.



The security department recently installed a monitoring device between routers R3 and R5, which a loss of network connectivity for users connected to R5. Troubleshooting revealed that the monitoring device cannot forward multicast packets. The team already updated R5 with the correct configuration. Which configuration must be implemented on R3 to resolve the problem by ensuring R3 as the DR for the R3-R5 segment?

```

interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network point-to-point
ip ospf priority 100
!
router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2
!
access-list 122 permit 89 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 89 any any

```

• A.

```

interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network non-broadcast
ip ospf priority 100
!
router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2
!
access-list 122 permit 89 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 89 any any
access-list 122 permit tcp any any
access-list 122 permit udp any any
access-list 122 permit icmp any any

```

• B.

```

interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network non-broadcast
ip ospf priority 0

router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2

access-list 122 permit 89 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 89 any any
access-list 122 permit tcp any any
access-list 122 permit udp any any
access-list 122 permit icmp any any

```

• C.

```

interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network non-broadcast
ip ospf priority 0

router ospf 10
router-id 10.10.3.255
neighbor 10.99.53.2

access-list 122 permit 88 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 88 any any
access-list 122 permit tcp any any
access-list 122 permit udp any any
access-list 122 permit icmp any any

```

• D.

Answer: B

NEW QUESTION # 174

An engineer configured a Cisco router to send reliable and encrypted notifications for any events to the management server. It was noticed that the notification messages are reliable but not encrypted. Which action resolves the issue?

- A. Configure all devices for SNMPv3 traps with priv.
- B. Configure all devices for SNMPv3 informs with auth.
- C. Configure all devices for SNMPv3 traps with auth.
- D. Configure all devices for SNMPv3 informs with priv.

Answer: D

Explanation:

SNMP notifications can be sent as traps or inform requests. Traps are unreliable because the receiver does not send acknowledgments when this device receives traps. "Send reliable and encrypted notifications for any events" so it is SNMP notifications. For encryption we need to configure "priv".

NEW QUESTION # 175

Refer to the exhibit.


```

access-list 100 deny tcp any any eq 465
access-list 100 deny tcp any eq 465 any
access-list 100 permit tcp any any eq 80
access-list 100 permit tcp any eq 80 any
access-list 100 permit udp any any eq 443
access-list 100 permit udp any eq 443 any

```

During troubleshooting it was discovered that the device is not reachable using a secure web browser. What is needed to fix the problem?

- A. permit udp port 465
- **B. permit tcp port 443**
- C. permit tcp port 22
- D. permit tcp port 465

Answer: B

NEW QUESTION # 176

A network administrator is troubleshooting a high utilization issue on the route processor of a router that was reported by NMS. The administrator logged into the router to check the control plane policing and observed that the BGP process is dropping a high number of routing packets and causing thousands of routes to recalculate frequently. Which solution resolves this issue?

- **A. Police the pir for BGP, conform-action set-prec-transmit, and exceed action set-clp-transmit.**
- B. Shape the cir for BGP, conform-action transmit, and exceed action transmit.
- C. Shape the pir for BGP, conform-action set-prec-transmit, and exceed action set-frde-transmit.
- D. Police the cir for BGP, conform-action transmit, and exceed action transmit.

Answer: A

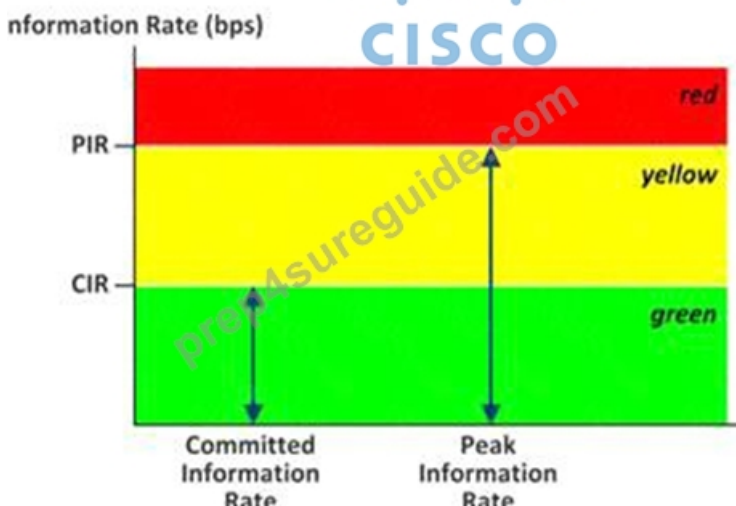
Explanation:

Explanation

CIR (Committed Information Rate) is the minimum guaranteed traffic delivered in the network.

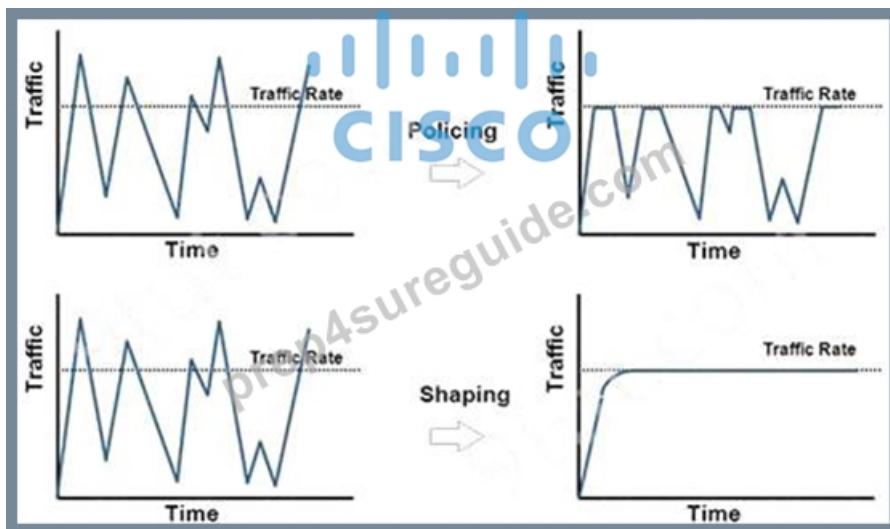
PIR (Peak Information Rate) is the top bandwidth point of allowed traffic in a non busy times without any guarantee.

Two Rates & Three Colors



+ Policing: is used to control the rate of traffic flowing across an interface. During a bandwidth exceed (crossed the maximum configured rate), the excess traffic is generally dropped or remarked. The result of traffic policing is an output rate that appears as a saw-tooth with crests and troughs. Traffic policing can be applied to inbound and outbound interfaces. Unlike traffic shaping, QoS policing avoids delays due to queuing. Policing is configured in bytes.

+ Shaping: retains excess packets in a queue and then schedules the excess for later transmission over increments of time. When traffic reaches the maximum configured rate, additional packets are queued instead of being dropped to proceed later. Traffic shaping is applicable only on outbound interfaces as buffering and queuing happens only on outbound interfaces. Shaping is configured in bits per second.



Therefore in this case we can only policing, not shaping as traffic shaping is applicable only on outbound interfaces as buffering and queuing happens only on outbound interfaces. Moreover, BGP traffic is not important so we can drop the excess packets without any problems.

And we only policing the PIR traffic so that the route processor is not overwhelmed by BGP calculation.

Note: The "set-prec-transmit" is the same as "transmit" command except it sets the IP Precedence level as well. The "set-clp-transmit" sets the ATM Cell Loss Priority (CLP) bit from 0 to 1 on the ATM cell and transmits the packet.

NEW QUESTION # 177

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