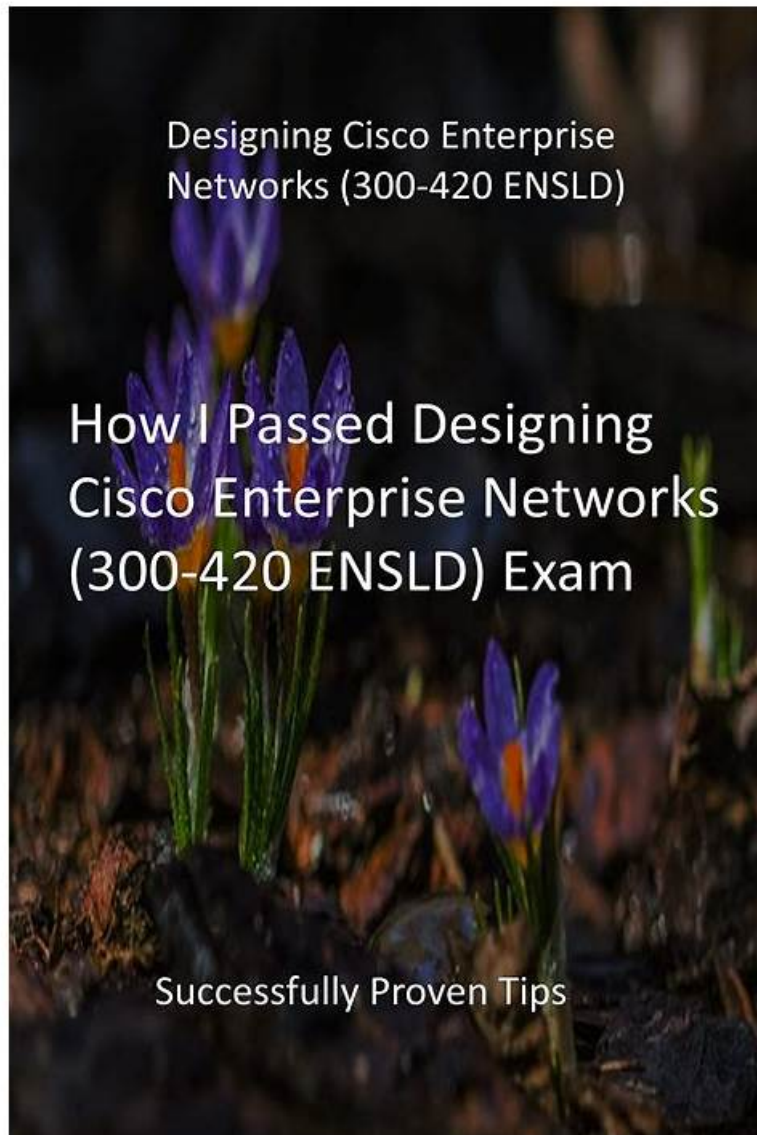


# 100% Pass Quiz 2026 300-420: Designing Cisco Enterprise Networks Useful Valid Exam Guide



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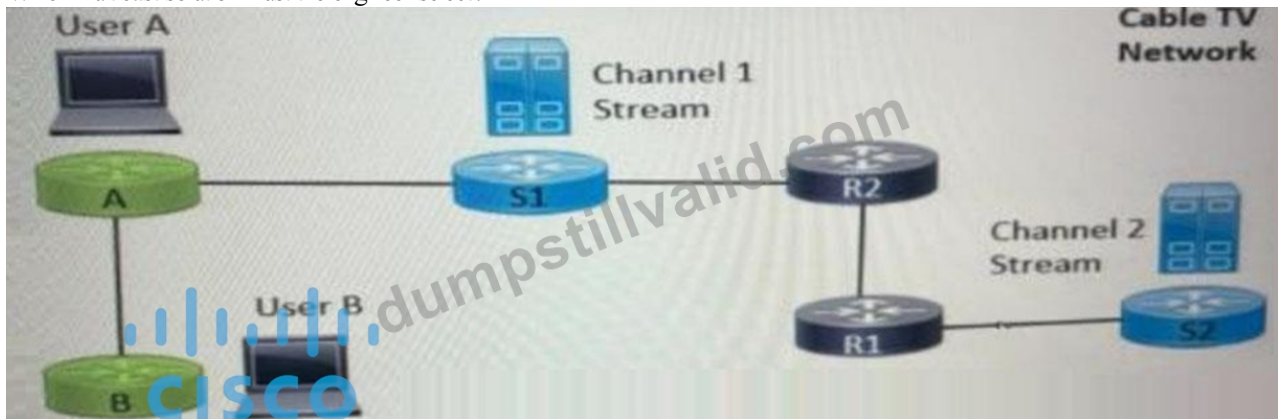
### Cisco Designing Cisco Enterprise Networks Sample Questions (Q154-Q159):

#### NEW QUESTION # 154

Refer to the exhibit. A network engineer must design a multicast solution based on:

- Many-to-many communications between the users and sources
- Support of up to 50 multicast sources
- Users that must register for streams

Which multicast solution must the engineer select?



- A. Bidirectional PIM
- B. Any Source Multicast
- C. Multicast VPN
- D. Source-Specific Multicast

Answer: A

Explanation:

PIM-BIDIR is specifically used for many-many and allows for easy scaling. The downside is since it doesn't use SPT and as such can be sub-optimal from a routing standpoint, but as you can see in the diagram that is not an issue here due to the lack of complexity.

#### NEW QUESTION # 155

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. Diffserv
- B. Interserv
- C. RSVP
- D. Best effort

Answer: A

Explanation:

DiffServ is the correct scalable QoS architecture for classifying traffic according to business requirements and using DSCP values as the priority descriptor. Cisco QoS design distinguishes DiffServ from IntServ. IntServ uses per-flow signaling with RSVP and can reserve resources, but that model is not operationally scalable across large enterprise networks. DiffServ is class-based. Traffic is classified and marked at the network edge, then each device applies per-hop behavior to those classes using local QoS policy. DSCP provides a six-bit field in the IP header, which supports more than ten classification values and allows standardized treatment classes such as EF, AF, class selector, and default. Best effort provides no differentiated treatment, and RSVP is a signaling mechanism associated with IntServ rather than the requested scalable class-based architecture.

"Interserv" is not the correct Cisco QoS model term. Therefore, the engineer should design around DiffServ, with a clear trust boundary, marking policy, queuing model, and consistent treatment across WAN and campus boundaries. Reference topics: DiffServ, DSCP, per-hop behavior, class-based QoS, scalable QoS architecture.

#### NEW QUESTION # 156

Which three basic types of SD-WAN deployments are out on the market? (Choose three.)

- A. secure SD-WAN service
- B. policy-based SD-WAN
- C. managed service SD-WAN
- D. SD-WAN as-a-Service
- E. internet-based SD-WAN
- F. MPLS-based

Answer: C,D,E

#### NEW QUESTION # 157

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

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

Answer: C

Explanation:

Native policy-based IPsec protects unicast IP traffic between defined proxy identities, but it does not inherently provide a multiprotocol tunnel interface that supports multicast routing protocol packets. Many enterprise VPN designs require multicast for applications, routing protocols, or service discovery. To support multicast across an encrypted VPN, the design commonly uses GRE over IPsec or a tunnel interface such as VTI where the tunnel provides a logical point-to-point or multipoint interface and IPsec secures the encapsulated traffic. GRE can encapsulate multicast and broadcast traffic, allowing dynamic routing protocols and multicast packets to traverse the VPN. IPsec then encrypts the GRE or tunnel traffic for confidentiality and integrity. Transport mode by itself does not solve multicast forwarding, and tunnel mode still requires suitable encapsulation or tunnel-interface behavior for multicast support. Additional headend bandwidth may be required in large VPN designs, but it is not the unique technical requirement for multicast. Therefore, when IPsec VPNs must support IP multicast, the design must include GRE or VTI-style encapsulation.

#### NEW QUESTION # 158

A network engineer prepares a script to configure a loopback interface with IP address 172.16.15.12/32. To comply with the company security policies, 'Content-type':

'application/yang-data+json' is added to the script. Connection to the network devices must be secured.

Which code snippet must the network engineer use to meet this requirement?

```
{
  "ietf-interfaces:interface": {
    "name": "Loopback0",
    "type": "iana-if-type:softwareLoopback",
    "enabled": true,
    "ietf-ip:ipv4": {
      "address": {
        "ip": "172.16.15.12",
        "netmask": "255.255.255.255"
      }
    },
    "ietf-ip:ipv6": {}
  }
}
```

```
"interface": "ietf-loopback" {
  "name": "Loopback0",
  "enabled": true,
  "address": "ipv4"
  {
    "ip": "172.16.15.12",
    "netmask": "255.255.255.255"
  }
},
"address : "ipv6": {}
```

```

{
  "ietf-interfaces:interface": {
    "name": "Loopback0",
    "type": "iana-if-type:softwareLoopback",
    "enabled": true,
    "address_ipv4": {
      {
        "ip": "172.16.15.12",
        "netmask": "255.255.255.255"
      }
    }
  },
  "address_ipv6": {null}
}

```

```

{
  "ietf-interfaces:interface": {
    "name": "Loopback0",
    "type": "iana-if-type:softwareLoopback",
    "enabled": true,
    "address_ipv4": {
      {
        "ip": "172.16.15.12",
        "netmask": "0.0.0.0"
      }
    }
  },
  "address_ipv6": {}
}

```



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

Answer: A

**NEW QUESTION # 159**

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