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Cisco 300-420 Exam Details

As for the exam details, Cisco 300-420 lasts for 90 minutes and it contains many types of questions including fill-in-the-blanks, drag and drop, multiple-choice, and scenario-based. The test is available in English and Japanese. In order to pass the exam, candidates should answer at least 80 to 85% of the items correctly.

How to Pass 300-420 Exam?

The Cisco 300-420 test is a very diligently-designed exam that touches on almost every aspect of Cisco enterprise networking, routing & switching, and designing concepts. Securing the bare minimum passing marks in this exam is not an easy job as it demands more than commitment. All in all, there should be an army of reliable study resources to make a candidate skilled enough to pass the final exam. So, here is a list of some trustworthy resources that have proved beneficial for applicants to have a better hold over exam objectives:

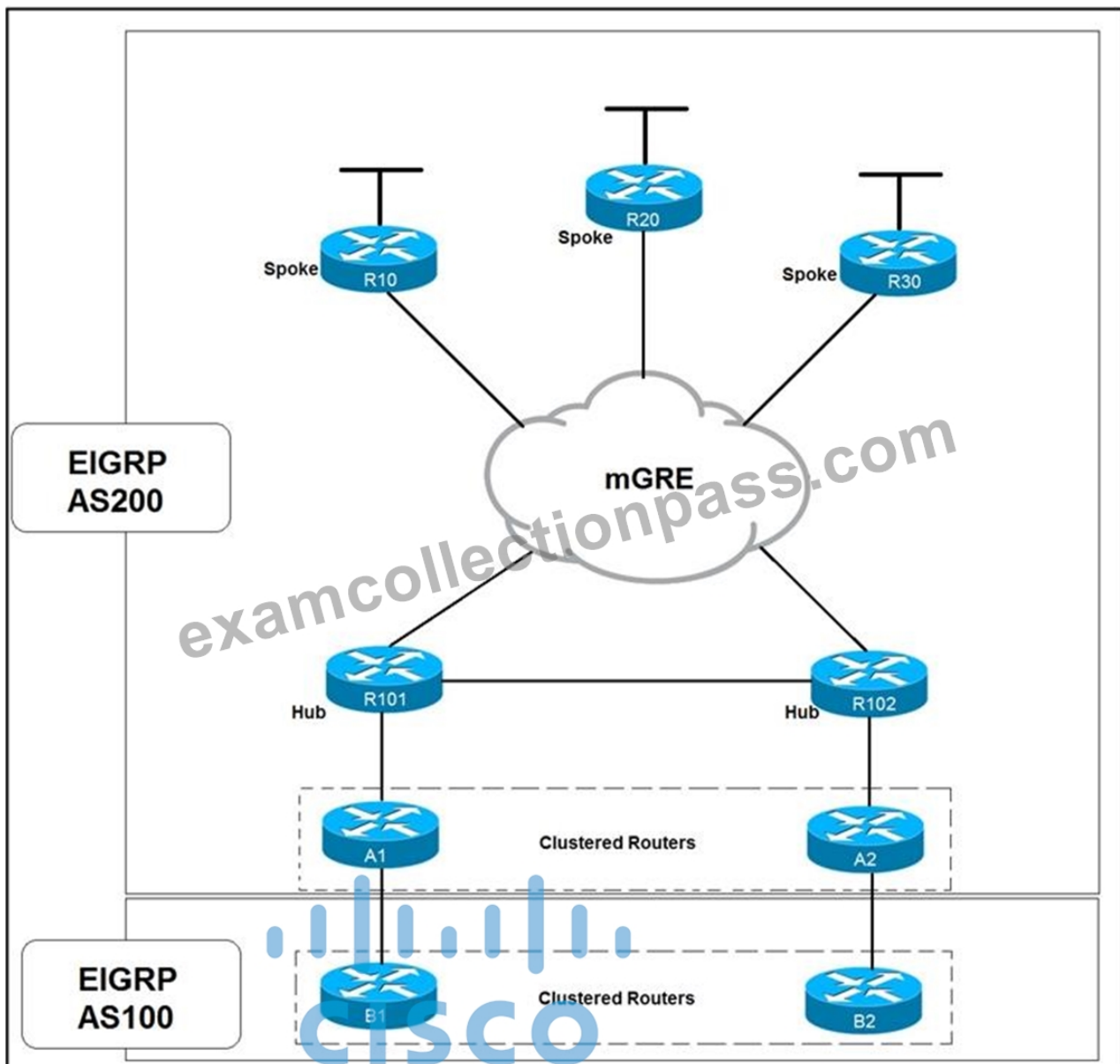
#1 - Designing Cisco Enterprise Networks (ENSLD) v1.0 Course

Managed by Cisco and its associated partners, it is the official training course that the test-takers can join to taste success in the Cisco 300-420 Exam. This course, in particular, has been designed by Cisco experts and helps candidates gain the latest information about enterprise network design and its related concepts. To know more, such a training alternative is delivered via classroom and virtual method and is 5 days long. In each delivery mode, candidates will be able to learn via lectures, self-study, and practical sessions. Additionally, taking up this course not only eases down the Cisco 300-420 exam journey but also helps a candidate earn 40 CE credits toward recertification. This way, it can help you reap dual benefits. And when it comes to its target audience, networking design engineers, network engineers, and system administrators are the ideal candidates for such a training course. While there are no official prerequisites to enroll for such a test, it is suggested that applicants should have basic computing and internet understanding. On top of these, a clear understanding of routing and switching fundamentals along with clarity over basic wireless networking concepts and terminology makes the whole course journey way more simplified.

Cisco Designing Cisco Enterprise Networks Sample Questions (Q61-Q66):

NEW QUESTION # 61

Refer to the exhibit.



Which solution decreases the EIGRP convergence time?

- A. Increase the dead timer value
- B. Enable subsecond timers
- C. Enable stub routing on the spokes
- D. Increase the hold time value

Answer: C

Explanation:

Enabling EIGRP stub routing on the spokes decreases convergence time in a hub-and-spoke design by reducing unnecessary queries and preventing spokes from being treated as transit routers. EIGRP convergence can be delayed when a router loses a route and must query many neighbors to determine whether an alternate path exists. In remote-site or spoke designs, a spoke normally has no useful alternate path for networks beyond itself, so querying it wastes time and can contribute to stuck-in-active conditions. Cisco EIGRP stub routing allows the spoke to advertise only permitted route types and informs upstream routers not to query the spoke for routes outside its scope. This creates a cleaner query boundary and accelerates convergence after link or route failures. Subsecond timers can detect neighbor loss more quickly, but they do not address the broader EIGRP query behavior shown in the design. Increasing hold or dead timers would slow detection, not improve convergence. Therefore, in the displayed hub-and-spoke EIGRP design, enabling stub routing on the spokes is the correct solution to decrease convergence time.

NEW QUESTION # 62

What is one function of the vSmart controller in an SD-WAN deployment?

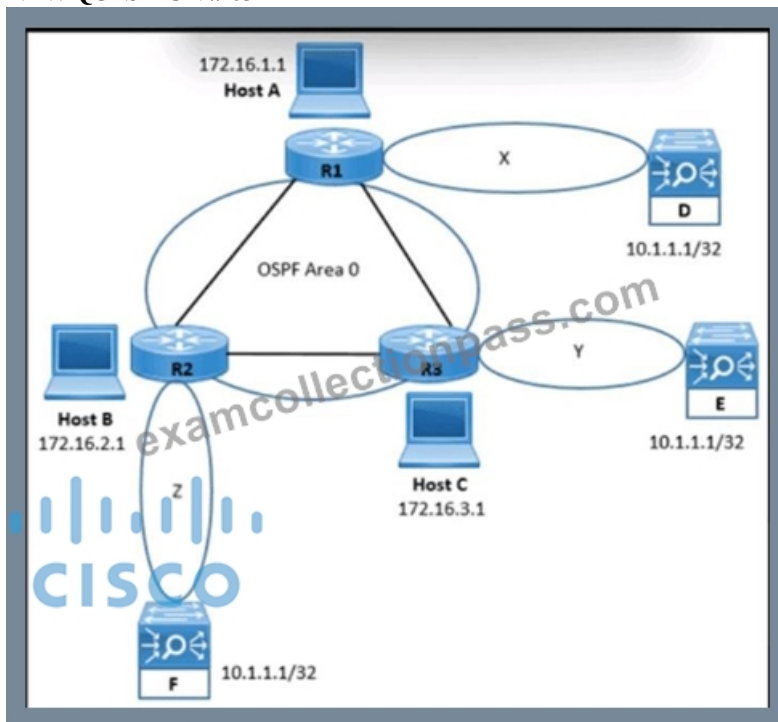
- A. responsible for the centralized control plane of the SD-WAN network
- B. provides centralized network management and a GUI to monitor and operate the SD-WAN overlay
- C. orchestrates vEdge and cEdge connectivity
- D. provides a data-plane at branch offices to pass traffic through the SD-WAN network

Answer: A

Explanation:

The vSmart controller provides the centralized control plane in a Cisco SD-WAN deployment. It establishes secure control connections with WAN Edge routers and exchanges routing, topology, security, and policy information using OMP. The vSmart controller does not forward user data traffic; data-plane forwarding occurs directly between WAN Edge routers over IPsec or other supported encapsulations. Its function is to distribute reachability information, TLOC information, service routes, centralized policies, application-aware routing policies, and segmentation information that determines how the overlay operates. vBond orchestrates onboarding, authentication facilitation, and NAT traversal for control connections. vManage provides centralized management, monitoring, configuration templates, and operational GUI/API functions. vEdge or Cisco IOS XE SD-WAN routers provide the branch or site data plane and local routing functions. Therefore, among the choices, the vSmart controller is responsible for the centralized control plane of the SD-WAN network. Correctly separating orchestration, management, control, and data-plane roles is a core Cisco SD-WAN design principle.

NEW QUESTION # 63



Refer to the exhibit. An engineer is designing an OSPF solution for a customer. The design must take into consideration:

- * Application load balancers D, E, and F are in different geographical locations and are OSPF-enabled.
- * Hosts A, B, and C connect to an application through the load balancers using IP address 10.1.1.1/32.
- * In the event of a failure of one of the load balancers, hosts must still have access to the application.

Which solution must the engineer choose?

- A. All load balancers to be co-located in area 0.
- B. At least one load balancer to be in area 0.
- C. X, Y, and Z to be configured as different areas
- D. X, Y and Z to be configured as the same area

Answer: A

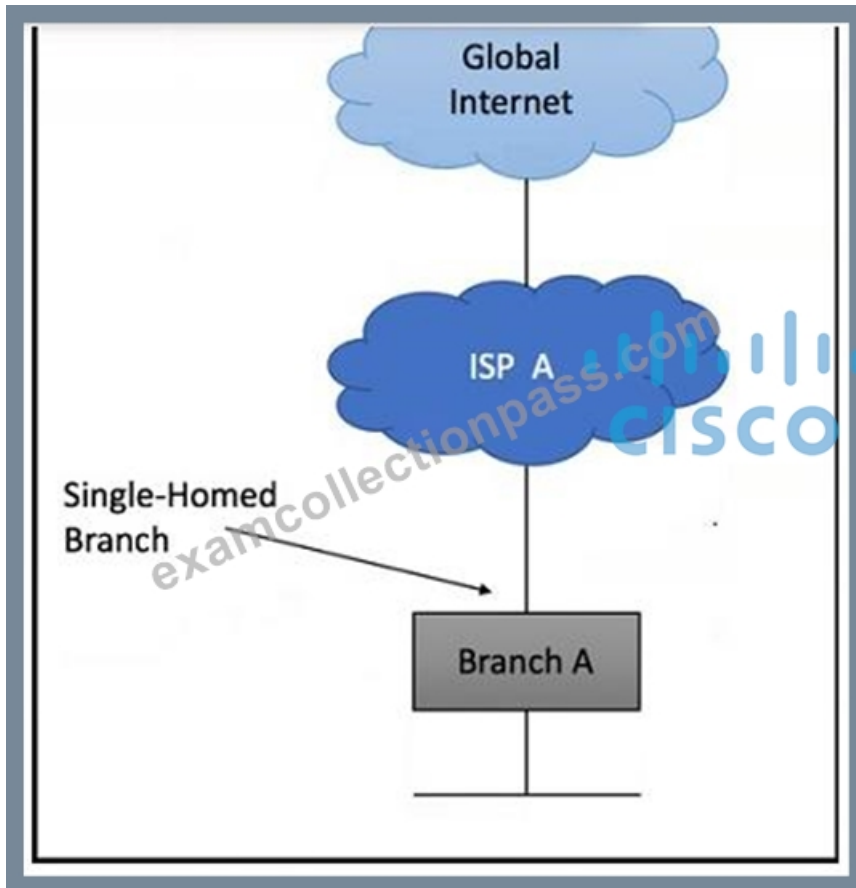
Explanation:

The load balancers should be co-located in area 0 because the design is using the same /32 application address from multiple OSPF-enabled devices. This is an anycast-style design: several load balancers advertise the same host route, and the routing protocol sends clients to the topologically best available instance. In OSPF, route preference is strongly affected by route type. Intra-area routes are preferred over interarea routes, and interarea summarization can also hide useful path details. If identical

anycast host routes are originated from different nonbackbone areas, hosts may not always select the closest or most resilient load balancer, and failure behavior can become inconsistent. Placing the load-balancer anycast advertisements in area 0 keeps the routing decision consistent and avoids unnecessary interarea preference complications. Configuring X, Y, and Z as different areas would make the problem worse, and placing only one load balancer in area 0 does not provide uniform resilience. Reference topics: OSPF area design, anycast host routes, intra-area preference, backbone area, application load-balancer resilience.

NEW QUESTION # 64

Refer to the exhibit.



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

Answer: A

NEW QUESTION # 65

Which information update is earned by OMP and enables the Cisco SD-WAN to build a secure overlay fabric on top of any public or private transport without regard for the actual link IP?

- A. DTLS
- B. RLOC
- C. LISP PITR
- D. TLOC

Answer: D

Explanation:

A TLOC route represents a WAN link that serves as a tunnel endpoint and is uniquely identified by {System-IP, Color, Encapsulation}. Note that the System IP address is used instead of the interface IP address as an identifier for a TLOC route. That's because the interface IP can change at any given moment. Using the fixed System-IP ensures that the TLOC can be uniquely identified at all times irrespective of any interface IP changes. This is very important because an OMP route (vRoute) has a next-hop pointing to a TLOC. This separation of information allows TLOC routes to be updated with new parameters without having to invalidate the dependent vRoutes. If a vEdge router has multiple transport interfaces connected to different WAN providers, as shown in figure 7, a TLOC route is created and advertised for each WAN interface.

DTLS or TLS provides communication privacy between Cisco SD-WAN devices in the network, using the Advanced Encryption Standard (AES-256) encryption algorithm to encrypt all control traffic sent over the connections.

<https://www.networkacademy.io/ccie-enterprise/sdwan/omp-overview>

NEW QUESTION # 66

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