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NEW QUESTION: 1

R1, R2, R3, and R4 run OSPF. The area IDs are shown in the figure. Please match the LSA types and area IDs in each area.



NEW QUESTION: 2

Which of the following descriptions about BGP route aggregation is wrong?

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Topic 13: BGP Fundamentals	17%	- BGP route attributes and selection - BGP configuration and policy application - BGP characteristics and working principles

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Huawei HCIP-Datcom-Core Technology V1.0 Sample Questions (Q230-Q235):

NEW QUESTION # 230

Route attributes are specific descriptions of routes. BGP route attributes can be classified into four types. Which of the following are well-known discretionary attributes?

- A. MED
- B. Community
- C. Atomic_Aggregate
- D. Local-Preference

Answer: C,D

Explanation:

Comprehensive and Detailed Step-by-Step Explanation:

1. BGP Attributes Overview:

BGP uses attributes to describe the properties of routes. These attributes are classified into the following categories:

* Well-Known Mandatory: Attributes that must be recognized and included in every BGP update.

Examples: AS_PATH, ORIGIN, NEXT_HOP.

* Well-Known Discretionary: Attributes that must be recognized but are not required in every BGP update. Examples:

LOCAL_PREF, ATOMIC_AGGREGATE.

* Optional Transitive: Attributes that may or may not be recognized, but must be passed along to other BGP peers. Examples: COMMUNITY.

* Optional Non-Transitive: Attributes that may or may not be recognized, and are not passed along to other BGP peers. Examples: MED (Multi-Exit Discriminator).

2. Analysis of Each Option:

Option A: Atomic_Aggregate

* Correct.

* This is a well-known discretionary attribute. It indicates that the advertised route is an aggregate route that summarizes multiple specific routes.

Option B: Local-Preference

* Correct.

* This is a well-known discretionary attribute. It is used within an AS to prioritize routes, with higher values being preferred.

Option C: Community

* Incorrect.

* The COMMUNITY attribute is an optional transitive attribute. It is used to tag routes with specific labels to apply routing policies.

Option D: MED (Multi-Exit Discriminator)

* Incorrect.

* The MED attribute is an optional non-transitive attribute. It is used to influence the choice of the preferred path when there are multiple entry points into an AS.

3. Summary:

* Well-Known Discretionary Attributes: Atomic_Aggregate and Local-Preference.

NEW QUESTION # 231

On an OSPF network, an algorithm is used to prevent loops within an area, but loops may occur between areas. Therefore, OSPF defines a loop prevention mechanism for inter-area routes. Which of the following statements are true about the loop prevention mechanism?

- A. Inter-area routes cannot be directly transmitted between non-backbone areas.
- B. An ABR cannot inject Type 3 LSAs that describe routes to a network segment in an area back to the same area.
- C. Inter-area routes need to be forwarded through area 0.
- D. All non-backbone areas must be directly connected to area 0.

Answer: A,B,C,D

Explanation:

OSPF Area Design and Loop Prevention:

OSPF uses a hierarchical structure with areas to improve scalability and efficiency. Area 0, the backbone area, plays a crucial role in ensuring loop-free route distribution between areas. The following mechanisms are key to preventing routing loops:

Strict adherence to hierarchical area design.

Prohibition of direct inter-area route exchanges between non-backbone areas.

HCIP-Datcom-Core Technology Training Material (OSPF Basics and Advanced Concepts).

Analysis of Each Statement:

A: Inter-area routes cannot be directly transmitted between non-backbone areas. This statement is TRUE.

OSPF mandates that all inter-area routing must pass through Area 0. Direct inter-area route exchanges between two non-backbone areas are not allowed to prevent loops.

Reference: HCIP-Datcom-Core Technology Training Material (Inter-Area Routing Mechanisms).

B: All non-backbone areas must be directly connected to area 0. This statement is TRUE. OSPF requires every non-backbone area to connect directly to Area 0 to facilitate loop-free inter-area routing. Virtual links may be configured in exceptional cases where direct connection is not possible.

Reference: HCIP-Datcom-Core Technology Training Material (OSPF Backbone and Area Connectivity).

C: Inter-area routes need to be forwarded through area 0. This statement is TRUE. All inter-area traffic must traverse Area 0 to ensure hierarchical routing and loop prevention. This rule is a core design principle of OSPF.

Reference: HCIP-Datcom-Core Technology Training Material (Routing Control and Loop Prevention in OSPF).

D: An ABR cannot inject Type 3 LSAs that describe routes to a network segment in an area back to the same area. This statement is TRUE. OSPF explicitly prohibits an ABR from injecting Type 3 LSAs describing a route into the same area where the route originates. This mechanism prevents routing loops within an area.

Reference:HCIP-Datacom Advanced Routing & Switching Technology (OSPF LSA Types and ABR Behavior).

Conclusion:All options (A, B, C, D) are correct. OSPF enforces a robust loop prevention mechanism through hierarchical routing, mandatory traversal via Area 0, and strict rules on LSA propagation by ABRs. This ensures reliable and loop-free inter-area routing in OSPF networks.

NEW QUESTION # 232

Which of the following attributes cannot be directly referenced in an apply clause of a route-policy?

- A. IP-prefix
- B. community
- C. tag
- D. origin

Answer: A

Explanation:

Attributes such as community, tag, and origin can be directly referenced in the apply clause of a route-policy. However, IP-prefix is not an attribute but a prefix list used for matching, and it cannot be directly applied .

NEW QUESTION # 233

RSTP converges faster than STP because of? (Multiple choice)

- A. If a root port in the network fails, the optimal Alternate port in the network will become the root port and enter the Forwarding state
- B. If a designated port in the network fails, the optimal Alternate port in the network will become the designated port and enter the Forwarding state
- C. The concept of edge port is introduced in RSTP. The edge port does not participate in the RSTP operation, and can be directly transferred from Disable to Forwarding state
- D. In RSTP, after a port is elected as a designated port, it will first enter the Discarding state, and then quickly enter the Forwarding state through the Proposal/ Agreement mechanism

Answer: A,C,D

NEW QUESTION # 234

BFD detection can be linked with which of the following modules to speed up fault detection? (Multiple choice)

- A. OSPF
- B. VRRP
- C. BGP
- D. Static routing

Answer: A,B,C,D

NEW QUESTION # 235

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