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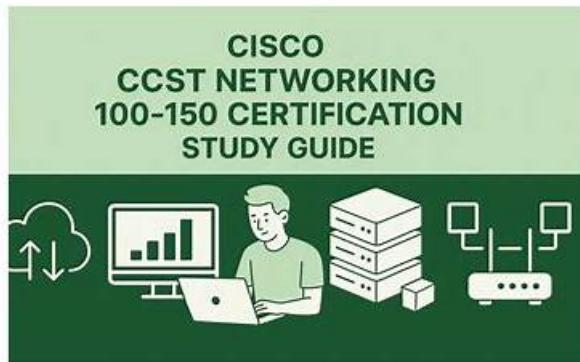
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Cisco CCST Networking 100-150 Certification Study Guide

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100-150 CCST Networking Sample Questions

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Technician (CCST) Networking Exam test torrent, now I would like to introduce some details about our CCST-Networking Guide Torrent for you.

Cisco CCST-Networking Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Diagnosing Problems: In the CCST-Networking exam, Cisco network technicians are tested on their ability to employ troubleshooting methodologies and help desk practices, perform packet captures with Wireshark, run and interpret diagnostic commands. It also tests their skills to differentiate data collection methods for network devices, and execute basic show commands on Cisco devices.
Topic 2	<ul style="list-style-type: none">• Addressing and Subnet Formats: For aspiring Cisco network technicians, the CCST Networking exam evaluates the ability to compare private and public IP addresses, identify IPv4 addresses and subnet formats, and recognize IPv6 addresses and prefix formats. This ensures they can manage and configure network addressing effectively.
Topic 3	<ul style="list-style-type: none">• Infrastructure: The Cisco Certified Support Technician (CCST) Networking exam measures network technicians' skills in identifying Cisco device status lights, using network diagrams to attach cables, recognizing various network ports. It also focuses on explaining basic routing concepts and understanding basic switching concepts.

Cisco Certified Support Technician (CCST) Networking Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

You need to connect a computer's network adapter to a switch using a 1000BASE-T cable.

Which connector should you use?

- A. RJ-45
- B. RJ-11
- C. OS2 LC
- D. Coax

Answer: A

Explanation:

*1000BASE-T Cable: This refers to Gigabit Ethernet over twisted-pair cables (Cat 5e or higher).

*Connector: RJ-45 connectors are used for Ethernet cables, including those used for 1000BASE-T.

*Coax: Used for cable TV and older Ethernet standards like 10BASE2.

*RJ-11: Used for telephone connections.

*OS2 LC: Used for fiber optic connections.

References:

*Ethernet Standards and Cables: Ethernet Cable Guide

NEW QUESTION # 19

What is the purpose of assigning an IP address to the management VLAN interface on a Layer 2 switch?

- A. To enable access to the CLI on the switch through Telnet or SSH
- B. To enable the switch to resolve URLs for the attached devices
- C. To enable the switch to act as a default gateway for the attached devices
- D. To enable the switch to provide DHCP services to other switches in the network

Answer: A

Explanation:

The primary purpose of assigning an IP address to the management VLAN interface on a Layer 2 switch is to facilitate remote management of the switch. By configuring an IP address on the management VLAN, network administrators can access the switch's

Command Line Interface (CLI) remotely using protocols such as Telnet or Secure Shell (SSH). This allows for convenient configuration changes, monitoring, and troubleshooting without needing physical access to the switch1.

References :=

*Understanding the Management VLAN

*Cisco - VLAN Configuration Guide

*Remote Management of Switches

Assigning an IP address to the management VLAN interface (often the VLAN 1 interface by default) on a Layer 2 switch allows network administrators to remotely manage the switch using protocols such as Telnet or SSH. This IP address does not affect the switch's ability to route traffic between VLANs but provides a means to access and configure the switch through its Command Line Interface (CLI).

*A: The switch does not act as a default gateway; this is typically a function of a Layer 3 device like a router.

*B: The switch does not resolve URLs; this is typically a function of DNS servers.

*C: The switch can relay DHCP requests but does not typically provide DHCP services itself; this is usually done by a dedicated DHCP server or router.

Thus, the correct answer is D. To enable access to the CLI on the switch through Telnet or SSH.

References :=

*Cisco VLAN Management Overview

*Cisco Catalyst Switch Management

NEW QUESTION # 20

You want to list the IPv4 addresses associated with the host name www.companypro.net.

Complete the command by selecting the correct option from each drop-down list.



Answer:

Explanation:



Explanation:

To list the IPv4 addresses associated with the host name www.companypro.net, you should use the following command:

nslookup www.companypro.net

This command will query the DNS servers to find the IP address associated with the hostname provided. If you want to ensure that it returns the IPv4 address, you can specify the-type=A option, which stands for Address records that hold IPv4 addresses1.

However, the nslookup command by default should return the IPv4 address if available.

To list the IPv4 addresses associated with the host name www.companypro.net, you should use the nslookup command.

* Command: nslookup

* Target: www.companypro.net

So, the completed command is:

* nslookup www.companypro.net

* nslookup: This command is used to query the Domain Name System (DNS) to obtain domain name or IP address mapping or for

any other specific DNS record.

* www.companypro.net: This is the domain name you want to query to obtain its associated IP addresses.

References:

* Using nslookup: nslookup Command Guide

NEW QUESTION # 21

Move each cloud computing service model from the list on the left to the correct example on the right Note: You will receive partial credit for each correct answer.

Cloud Computing Service Models	Examples
IaaS	Three virtual machines are connected by a virtual network in the cloud. Model
PaaS	Users access a web-based graphics design application in the cloud for a monthly fee. Model
SaaS	A company develops applications using cloud-based resources and tools. Model



Answer:

Explanation:

Cloud Computing Service Models	Examples
IaaS	Three virtual machines are connected by a virtual network in the cloud. IaaS
PaaS	Users access a web-based graphics design application in the cloud for a monthly fee. SaaS
SaaS	A company develops applications using cloud-based resources and tools. PaaS

Explanation:

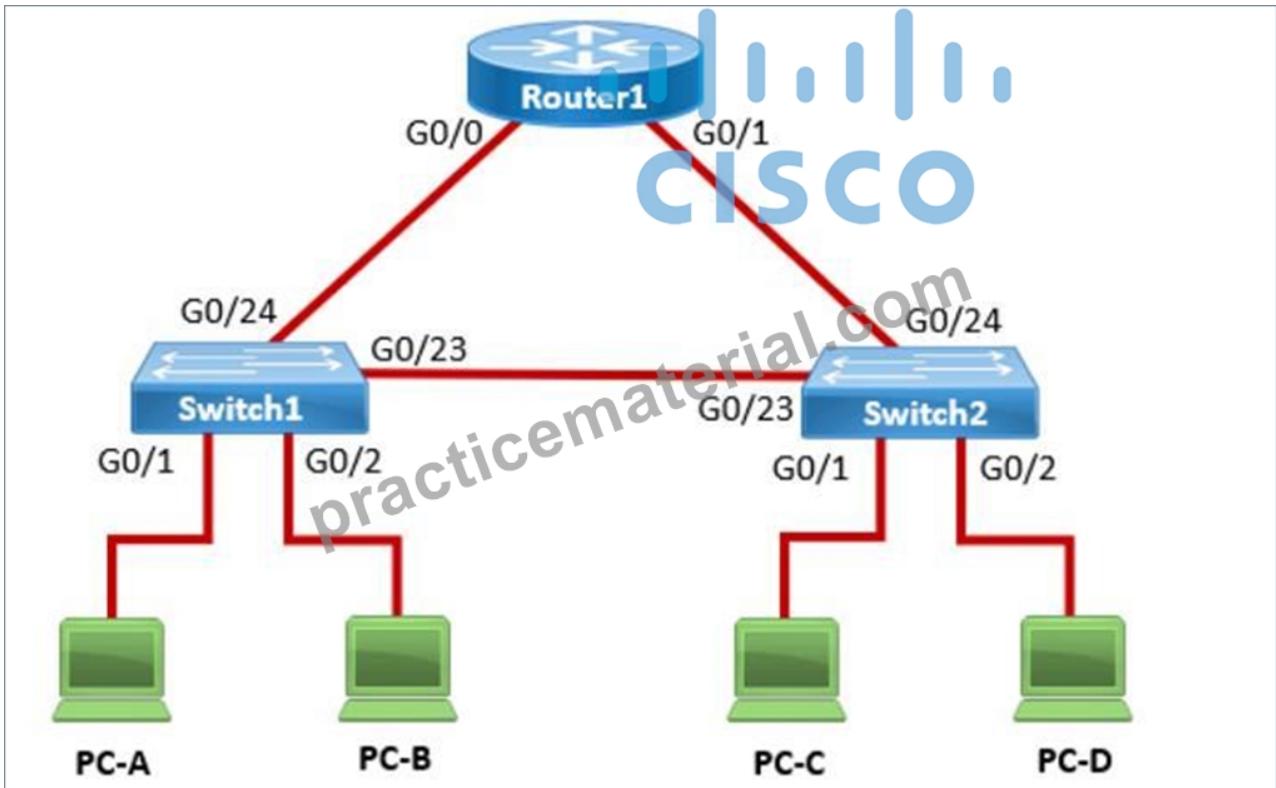
- * Three virtual machines are connected by a virtual network in the cloud.
- * Model: IaaS (Infrastructure as a Service)
 - * Explanation: IaaS provides virtualized computing resources over the internet, including virtual machines, storage, and networks.
 - * Users access a web-based graphics design application in the cloud for a monthly fee.
 - * Model: SaaS (Software as a Service)
 - * Explanation: SaaS delivers software applications over the internet, typically on a subscription basis, accessible via a web browser.
 - * A company develops applications using cloud-based resources and tools.
 - * Model: PaaS (Platform as a Service)
 - * Explanation: PaaS provides a platform allowing customers to develop, run, and manage applications without dealing with the infrastructure.
 - * IaaS (Infrastructure as a Service): Provides virtualized hardware resources that customers can use to build their own computing environments.
 - * PaaS (Platform as a Service): Offers a platform with tools and services to develop, test, and deploy applications.
 - * SaaS (Software as a Service): Delivers fully functional applications over the internet that users can access and use without managing the underlying infrastructure.

References:

- * Cloud Service Models: Understanding IaaS, PaaS, SaaS
- * NIST Definition of Cloud Computing:NIST Cloud Computing

NEW QUESTION # 22

In the network shown in the following graphic, Switch1 is a Layer 2 switch.



PC-A sends a frame to PC-C. Switch1 does not have a mapping entry for the MAC address of PC-C. Which action does Switch1 take?

- A. Switch1 drops the frame and sends an error message back to PC-A.
- B. Switch1 queries Switch2 for the MAC address of PC-C.
- C. **Switch1 floods the frame out all active ports except port G0/1.**
- D. Switch1 sends an ARP request to obtain the MAC address of PC-C.

Answer: C

Explanation:

Understanding How Layer 2 Switches Handle Unknown MAC Addresses

Switches operate at Layer 2 (Data Link Layer) of the OSI model and maintain a MAC address table (CAM table) to forward frames efficiently.

* When a switch receives a frame, it checks its MAC address table to see if it knows the destination MAC address.

* If the destination MAC address is not in the table (meaning the switch does not know which port leads to PC-C), the switch follows the flooding behavior.

What Happens When Switch1 Receives a Frame from PC-A to PC-C?

* Switch1 checks its MAC table:

* The source MAC (PC-A) is recorded in the table on port G0/1.

* The destination MAC (PC-C) is not in the table.

* Switch1 does not know where PC-C is:

* It floods the frame out of all active ports except the port it was received on (G0/1).

* This means the frame is sent to:

* Switch2 (via G0/23)

* PC-B (via G0/2)

* Switch2 receives the frame and follows the same process:

* If Switch2 has PC-C's MAC in its table, it forwards the frame appropriately.

* If not, it floods the frame again until PC-C replies.

* Once PC-C responds, Switch1 and Switch2 learn its MAC address and update their tables.

Why Other Options Are Incorrect:

#A. Switch1 queries Switch2 for the MAC address of PC-C.

* Incorrect: Switches do not query other switches directly for MAC addresses. Instead, they rely on learning MAC addresses dynamically through frame forwarding.

#B. Switch1 drops the frame and sends an error message back to PC-A.

* Incorrect: Switches do not drop frames for unknown MAC addresses. Instead, they flood the frames out all ports except the incoming port.

#D. Switch1 sends an ARP request to obtain the MAC address of PC-C.

* Incorrect:

* ARP (Address Resolution Protocol) is only used to resolve IP addresses to MAC addresses.

* Since PC-A is sending a frame (Layer 2), not an IP packet (Layer 3), ARP is not involved here.

Conclusion

Since Switch1 does not know the destination MAC address, it floods the frame out all active ports except the port it was received on. This is the default behavior of Layer 2 switches when they encounter an unknown MAC address.

Thus, the correct answer is #C. Switch1 floods the frame out all active ports except port G0/1.

References

* Cisco CCNA 200-301 Official Guide - MAC Address Table & Frame Forwarding

* RFC 894 - Standard for Ethernet Frame Forwarding

* Cisco Networking Essentials - Switch Flooding Behavior

NEW QUESTION # 23

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