

# 31 days before your ccna routing and switching exam a day by day review guide

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### 31 Days Before Your CCNA Routing and Switching Exam: A Day-by-Day Review Guide for the ICND2 200-101

#### Day 1: Review Layer 2 Concepts

- Q: What are Ethernet and VLANs?
- A: Ethernet is a Layer 2 technology that connects devices on a LAN. VLANs divide a LAN into multiple logical segments.

#### Day 2: Switch Basics and STP

- Q: Explain how switches learn MAC addresses and build MAC tables.
- A: Switches learn MAC addresses by listening to traffic on their ports. They build MAC tables that map MAC addresses to specific ports.

#### Day 3: Routing Protocols (RIPv2)

- Q: How does RIPv2 discover routes and handle network convergence?
- A: RIPv2 uses broadcast packets to discover and exchange routing information. It prioritizes routes based on hop count and age.

#### Day 4: Routing Protocols (EIGRP)

- Q: What is the difference between distance-vector and link-state routing protocols?

- A: Distance-vector protocols like RIPv2 only consider hop count, while link-state protocols like EIGRP use a more detailed topology map to calculate routes.

### **Day 5: Troubleshooting Layer 2 Connectivity**

- Q: What are common Layer 2 troubleshooting tools?
- A: Ping, traceroute, and show commands can help identify Layer 2 connectivity issues, such as cabling problems or incorrect VLAN configurations.

### **Day 6: VLAN Design and Trunking**

- Q: How do you design and configure a VLAN network?
- A: VLANs are created using VLAN IDs. Trunking allows for the transport of multiple VLANs over a single trunk link.

### **Day 7: Routing Protocols (OSPF)**

- Q: Explain the operation of OSPF, a link-state routing protocol.
- A: OSPF calculates shortest paths based on link costs. It uses Dijkstra's algorithm and maintains a database of network topology information.

### **Day 8: Inter-VLAN Routing**

- Q: How do you enable routing between VLANs?
- A: Inter-VLAN routing can be achieved using trunk ports, Layer 3 switches, or routers.

### **Day 9: IPv6 Fundamentals**

- Q: What are the key differences between IPv4 and IPv6?
- A: IPv6 uses a larger address space, supports autoconfiguration, and utilizes a different header format.

### **Day 10: Troubleshooting Layer 3 Connectivity**

- Q: What tools can you use to troubleshoot Layer 3 connectivity problems?
- A: Traceroute, ping, and show commands can help identify problems with routing, subnet masks, and gateway configurations.

**Continue to the next five paragraphs for the remaining days of review.**

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