

31 days before your ccent certification exam a day by day review for the icnd

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31 Days Before Your CCENT Certification Exam: A Day-by-Day Review for the ICND1 100-101 Certification Exam, 2nd

Day 1:

- Review network fundamentals: OSI model, TCP/IP suite, network protocols
- Q: Describe the function of the transport layer in the OSI model.
- A: Provides reliable data transfer between hosts

Day 2:

- Configuring LANs: Ethernet, VLANs, STP
- Q: What is the purpose of Spanning Tree Protocol (STP)?
- A: To prevent network loops and ensure redundancy

Day 3:

- IP addressing and subnetting: IPv4, IPv6
- Q: Convert the following IPv4 address to binary: 192.168.1.1
- A: 11000000.10101000.00000001.00000001

Day 4:

- Routing fundamentals: static, default, and dynamic routing

- Q: What is the role of the routing table in a router?
- A: Stores the best paths to reach different networks

Day 5:

- Troubleshooting and diagnostic tools: Ping, Traceroute, show commands
- Q: How can you use Traceroute to identify the path taken by a packet?
- A: By analyzing the hops and response times

Day 6:

- Review IPv6 addressing and routing
- Q: What is the default prefix length for an IPv6 link-local address?
- A: 64

Day 7:

- DHCP and DNS configuration
- Q: What is the purpose of the DHCP server?
- A: To dynamically assign IP addresses and other network configuration information to devices

Day 8:

- VLAN implementation and management
- Q: What is the significance of the VLAN trunk port?
- A: Allows traffic from multiple VLANs to pass through

Day 9:

- Troubleshooting LAN connectivity issues
- Q: What is a common cause of VLAN communication problems?
- A: Incorrect VLAN configuration on the switch ports

Day 10:

- Review dynamic routing protocols: RIPv2, EIGRP
- Q: What is the metric used by RIPv2 to determine the best path?
- A: Hop count

Day 11:

- Configuring and verifying static routes
- Q: How can you configure a default gateway on a router using a static route?
- A: Use the "ip default-gateway" command

Day 12:

- WAN technologies: WAN encapsulation, PPP
- Q: What is the purpose of a point-to-point link in a WAN?
- A: To connect two devices over a physical connection

Day 13:

- Understanding WAN connectivity options: leased lines, DSL, cable
- Q: What is the advantage of using a leased line for WAN connectivity?
- A: Dedicated bandwidth and high reliability

Day 14:

- Troubleshooting WAN connectivity issues
- Q: What is a common reason for a PPP connection failure?
- A: Incorrect authentication credentials

Day 15:

- Review network security principles: ACLs, NAT, firewalls
- Q: What is the purpose of an access control list (ACL)?
- A: To filter traffic based on source IP address, destination IP address, and

Day 16:

- Configuring and verifying IPv6 ACLs
- Q: How do you configure an IPv6 extended ACL?
- A: Use the "ipv6 access-list extended" command

Day 17:

- Implementing NAT for IPv4 and IPv6
- Q: What is the significance of the NAT inside global command?
- A: Allows internal IP addresses to be translated into a public IP address

Day 18:

- Troubleshooting security issues
- Q: What is a common symptom of a DNS attack?
- A: Inability to resolve domain names

Day 19:

- Review wireless networking fundamentals: Wi-Fi standards, SSIDs
- Q: What is the difference between a BSSID and an SSID?
- A: BSSID is the MAC address of the wireless access point, while SSID is the name of the wireless network

Day 20:

- Configuring and verifying wireless LANs
- Q: How do you configure a wireless access point to broadcast an SSID?
- A: Use the "ssid broadcast" command

Day 21:

- Troubleshooting wireless connectivity issues

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- Q: What is a possible cause of slow wireless connection speeds?

- A: Interference from other nearby wireless devices

Day 22:

- Review network management: IOS commands, SNMP
- Q: What is the purpose of the "show ip interface brief" command?
- A: Displays a summary of IP interface information

Day 23:

- Monitoring and troubleshooting network devices
- Q: How can you use SNMP to monitor device performance?
- A: By querying MIBs for specific information

Day 24:

- Review IPv6 network management and troubleshooting
- Q: What is a common tool for troubleshooting IPv6 routing?
- A: Ping6

Day 25:

- Practicing configuring and verifying network devices
- Q: How do you verify the configuration of a static route?
- A: Use the "show ip route" command

Day 26:

- Reviewing exam topics and identifying weak areas
- Q: What is a key element to remember when configuring VLANs?
- A: VLAN membership must be consistent across all switches

Day 27:

- Taking practice exams and simulating the exam environment

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- Q: What is a benefit of taking practice exams?

- A: Identifies areas for improvement and builds confidence

Day 28:

- Revising network fundamentals and key concepts
- Q: What is the difference between a subnet mask and a default gateway?
- A: A subnet mask defines the network portion of an IP address, while a default gateway serves as the exit point for packets destined for other networks

Day 29:

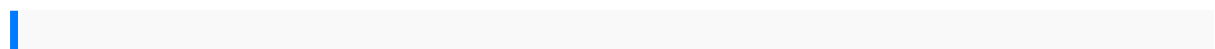
- Troubleshooting common network issues
- Q: What is a possible cause of a DNS server failure?
- A: Incorrect DNS server configuration

Day 30:

- Reviewing exam objectives and ensuring comprehension
- Q: What is the role of a router in a network?
- A: Directs traffic between different networks

Day 31:

- Resting, relaxing, and staying calm
- Q: What is the most important thing to do on the day of the exam?
- A: Stay relaxed and focus on your preparation



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