

📖 EASY LEVEL (10 Questions)

Q1. Which command is used to install a package on an RHEL-based system?

- A. apt install
 - B. yum install
 - C. pkg install
 - D. installer add
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Q2. Which layer of the OSI model does a switch primarily operate on?

- A. Layer 1
 - B. Layer 2
 - C. Layer 3
 - D. Layer 4
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Q3. Which IPv4 class supports the highest number of hosts?

- A. Class A
 - B. Class B
 - C. Class C
 - D. Class D
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Q4. Which command creates a new user in Linux?

- A. newuser
 - B. mkuser
 - C. useradd
 - D. addgroup
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Q5. The default SSH port is:

- A. 20
- B. 22
- C. 23
- D. 25

Q6. Which file stores the encrypted user passwords in Linux (modern systems)?

- A. /etc/passwd
 - B. /etc/group
 - C. /etc/shadow
 - D. /etc/users
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Q7. Which protocol does VNC use by default?

- A. RDP
 - B. SSH
 - C. RFB
 - D. HTTP
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Q8. A Layer 2 switch uses a _____ to forward frames.

- A. IP routing table
 - B. MAC address table
 - C. ARP table
 - D. DHCP table
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Q9. Which command is used to start the SSH service?

- A. systemctl start sshd
 - B. service start ssh
 - C. ssh start
 - D. sshd run
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Q10. Kickstart is used for:

- A. Installing virtual machines
 - B. Automating Linux installations
 - C. Updating repositories
 - D. Configuring firewall rules
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□ MEDIUM LEVEL (15 Questions)

Q11. In a Kickstart file, which section defines network configuration?

- A. %packages
 - B. %post
 - C. network
 - D. netconfig
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Q12. Which command displays the current IPv6 addresses on Linux?

- A. ifconfig -6
 - B. ip addr
 - C. ipv6 show
 - D. show ip6
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Q13. Which switching method checks the destination MAC before forwarding?

- A. Cut-through
 - B. Fragment-free
 - C. Store-and-forward
 - D. Fast-switching
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Q14. Which configuration file contains SSH server settings?

- A. /etc/ssh/ssh_client.conf
 - B. /etc/ssh/sshd_config
 - C. /etc/ssh/ssh_config
 - D. /etc/sshd/settings.conf
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Q15. Which command provides a graphical remote desktop session using VNC?

- A. vncserver
- B. ssh -vnc

- C. xserver run
 - D. rdpclient
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Q16. Which of the following is a valid IPv6 address format?

- A. 192.168.1.1
 - B. FE80::1A2B
 - C. 10.0.0.255
 - D. 300.200.1.1
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Q17. Which option in useradd sets the user's default shell?

- A. -g
 - B. -d
 - C. -s
 - D. -m
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Q18. A switch learns MAC addresses by:

- A. Routing tables
 - B. Examining source MAC of incoming frames
 - C. DHCP discovery
 - D. Admin configuration only
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Q19. What is the purpose of `/etc/group` file?

- A. Define group members
 - B. Store encrypted group passwords
 - C. Manage sudo privileges
 - D. Store user passwords
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Q20. Which configuration file is essential for Kickstart automation?

- A. ks.cfg
- B. start.cfg

- C. auto.cfg
 - D. setup.ks
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Q21. How does SSH ensure secure communication?

- A. Plain text transport
 - B. Telnet-based login
 - C. Encryption and key exchange
 - D. Using SSL only
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Q22. VNC is best suited for which type of remote access?

- A. Command-line only
 - B. GUI desktop access
 - C. Packet routing
 - D. Switching configuration
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Q23. VLANs on a Layer 2 switch provide:

- A. Faster routing
 - B. Network segmentation
 - C. Increased bandwidth
 - D. Better NAT performance
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Q24. A Kickstart %post script is executed:

- A. Before installation
 - B. During package installation
 - C. After installation
 - D. During boot
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Q25. Which tool helps generate a Kickstart file interactively?

- A. kickstart-builder
- B. system-config-kickstart

- C. ks-creator
 - D. ksmanager
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HARD LEVEL (15 Questions)

Q26. A Layer 2 switch suffering from MAC table overflow is vulnerable to which attack?

- A. DHCP starvation
 - B. MAC flooding
 - C. ARP poisoning
 - D. DNS spoofing
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Q27. In IPv6, SLAAC uses which protocol for address autoconfiguration?

- A. ARP
 - B. ICMPv6 Router Advertisement
 - C. DHCPv6 only
 - D. BGP
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Q28. Which Kickstart directive configures interactive installations only if required?

- A. interactive
 - B. install-if-needed
 - C. forceinstall
 - D. autoinstall
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Q29. Which method secures VNC by tunneling traffic?

- A. RFB encryption
- B. SSH tunneling
- C. Telnet port forwarding
- D. HTTP encapsulation

Q30. A user must be forced to change password at next login. Which command applies?

- A. passwd -c user
 - B. passwd -e user
 - C. useradd -x user
 - D. chuser expire user
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Q31. Which part of an IPv6 address identifies the subnet?

- A. Interface ID
 - B. Global prefix
 - C. MAC portion
 - D. Tunnel header
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Q32. To isolate multiple broadcast domains on a switch, which technique is used?

- A. NAT
 - B. Trunking
 - C. VLAN segmentation
 - D. Static routing
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Q33. In OpenSSH, which key type is considered most secure today?

- A. DSA
 - B. RSA (512-bit)
 - C. ED25519
 - D. DES key
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Q34. In VNC, which file stores the encrypted VNC password?

- A. ~/.vnc/passwd
- B. /etc/vnc/pass

- C. /root/vnc.users
 - D. ~/.vncpwd
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Q35. A user must belong to multiple supplementary groups. Which command does this?

- A. groupadd -m
 - B. usermod -aG
 - C. adduser -multi
 - D. sudoers modify
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Q36. In Kickstart, the %packages section must contain:

- A. Only required software names
 - B. All system drivers
 - C. Partition details
 - D. Kernel parameters
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Q37. The IPv6 link-local address always begins with:

- A. FF00::
 - B. FE80::
 - C. FEC0::
 - D. 2001::
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Q38. On a switch, port security can prevent:

- A. Routing loops
 - B. MAC spoofing
 - C. IP conflicts
 - D. VLAN mismatches
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Q39. Which option restricts SSH login to a specific group?

- A. AllowUser
 - B. PermitRootLogin
 - C. AllowGroups
 - D. SshRestrict
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Q40. Which Kickstart command configures the bootloader?

- A. boot
- B. bootinst
- C. bootloader
- D. loader