

## QUESTION 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

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**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

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**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