

📖 EASY (Q1–Q10)

Q1. Which installer is used by RHEL/CentOS/Rocky Linux?

- A. YaST
- B. Preseed
- C. Anaconda
- D. Kickstart

Q2. Which device firmware initializes hardware before OS loading?

- A. Kernel
- B. GRUB
- C. BIOS/UEFI
- D. init

Q3. Which stage loads the Linux kernel?

- A. BIOS
- B. GRUB
- C. initramfs
- D. systemd

Q4. Which file system usually contains the kernel image?

- A. /root
- B. /etc
- C. /boot
- D. /lib

Q5. What is the first process started by the Linux kernel?

- A. bash
- B. systemd
- C. initramfs
- D. grub

Q6. Which file extension represents Linux kernel images?

- A. .bin
- B. .img
- C. vmlinuz
- D. initrd

Q7. UEFI systems commonly use which partition type?

- A. NTFS
- B. FAT32
- C. ext4
- D. swap

Q8. Which bootloader is commonly used in Linux systems?

- A. LILO

- B. NTLDR
- C. GRUB
- D. SYSLINUX

Q9. Kickstart is mainly used for:

- A. Boot repair
- B. Manual installation
- C. Automated installation
- D. Kernel compilation

Q10. Which command reboots the system safely?

- A. poweroff
- B. shutdown -r now
- C. halt
- D. exit

☐ **MEDIUM (Q11–Q25)**

Q11. What is the main role of Anaconda installer?

- A. Package management
- B. System installation
- C. Bootloader repair
- D. User management

Q12. During installation, which component configures disk partitioning?

- A. Kernel
- B. Bootloader
- C. Installer
- D. init

Q13. Which bootloader configuration file is auto-generated and should not be edited directly?

- A. /etc/default/grub
- B. /boot/grub2/grub.cfg
- C. /etc/grub.conf
- D. /etc/fstab

Q14. What does initramfs contain?

- A. User data
- B. Temporary logs
- C. Essential drivers and tools
- D. Network configuration

Q15. Which command regenerates GRUB configuration on RHEL-based systems?

- A. grub-install

- B. update-grub
- C. grub2-mkconfig
- D. grub-reboot

Q16. Which Linux boot phase mounts the root filesystem?

- A. BIOS
- B. GRUB
- C. initramfs
- D. systemd

Q17. Which file specifies default GRUB boot options?

- A. /etc/grub.conf
- B. /etc/default/grub
- C. /boot/grub2/grub.cfg
- D. /etc/init.tab

Q18. Which Kickstart directive defines disk layout?

- A. network
- B. rootpw
- C. clearpart/part
- D. firewall

Q19. Which process replaces SysVinit in modern Linux systems?

- A. upstart
- B. init
- C. systemd
- D. login

Q20. What happens if initramfs is missing or corrupted?

- A. System boots normally
- B. Kernel panic occurs
- C. GRUB loads again
- D. User login fails

Q21. Which GRUB menu entry option edits boot parameters temporarily?

- A. d
- B. e
- C. c
- D. x

Q22. Which installation method requires no user interaction?

- A. Interactive install
- B. Manual install
- C. Hands-free install
- D. Live install

Q23. Which Kickstart file extension is commonly used?

- A. .ks
- B. .cfg
- C. .conf
- D. .xml

Q24. Which command installs GRUB on a disk?

- A. grub-install
- B. grub-mkconfig
- C. grub-update
- D. grub-repair

Q25. Which boot mode supports secure boot?

- A. Legacy BIOS
- B. CSM
- C. UEFI
- D. MBR

HARD (Q26–Q40)

Q26. Which sequence correctly represents the Linux boot process?

- A. BIOS → Kernel → GRUB → init
- B. GRUB → BIOS → Kernel → init
- C. BIOS/UEFI → GRUB → Kernel → initramfs → systemd
- D. Kernel → BIOS → initramfs → systemd

Q27. Why is GRUB considered more flexible than LILO?

- A. GUI support
- B. Dynamic configuration
- C. Faster boot
- D. Smaller size

Q28. Which Kickstart directive disables graphical installation?

- A. text
- B. cmdline
- C. nogui
- D. basic

Q29. In Kickstart, which directive sets the root password?

- A. user
- B. auth
- C. rootpw
- D. passwd

Q30. Which file system is preferred for /boot in legacy BIOS systems?

- A. xfs
- B. ext4
- C. btrfs
- D. ntfs

Q31. Which systemd target replaces runlevel 3?

- A. rescue.target
- B. multi-user.target
- C. graphical.target
- D. emergency.target

Q32. Which GRUB feature allows booting multiple OSes?

- A. Chain loading
- B. Dual kernel
- C. Swap boot
- D. Fast boot

Q33. Why is initramfs loaded into memory?

- A. Faster application load
- B. Temporary filesystem access
- C. Hardware initialization before root FS
- D. User authentication

Q34. Which Kickstart option enables SELinux?

- A. firewall
- B. selinux
- C. security
- D. enforcing

Q35. Which failure would most likely cause a kernel panic at boot?

- A. Missing user account
- B. Incorrect root filesystem
- C. Wrong hostname
- D. Missing cron service

Q36. Which GRUB command lists available drives?

- A. ls
- B. set
- C. root
- D. find

Q37. In UEFI systems, GRUB files are stored in:

- A. /boot/grub2
- B. /efi

- C. /boot/efi
- D. /usr/efi

Q38. Why is automated installation critical in data centers?

- A. Manual control
- B. Faster GUI
- C. Consistency and scalability
- D. Reduced disk usage

Q39. Which initramfs tool is commonly used in RHEL systems?

- A. mkinitrd
- B. dracut
- C. update-initramfs
- D. initgen

Q40. Which component is responsible for starting services after boot?

- A. GRUB
- B. Kernel
- C. initramfs
- D. systemd