⬜ EASY (Q1–Q10)

Q1. Which directory contains Linux system configuration files?
A. /bin
B. /usr
C. /etc
D. /var

Q2. Which command displays current working directory?
A. ls
B. pwd
C. whoami
D. cd

Q3. Which port does SSH use by default?
A. 21
B. 22
C. 23
D. 25

Q4. Which file stores user account information?
A. /etc/shadow
B. /etc/group
C. /etc/passwd
D. /etc/login.defs

Q5. Which service manages system logging in Linux?
A. cron
B. rsyslog
C. sshd
D. ntpd

Q6. Which command checks disk space usage?
A. du
B. df
C. lsblk
D. mount

Q7. Which command lists running processes?
A. top
B. ps
C. uptime
D. free

Q8. Which protocol is used for secure file transfer?
A. FTP

B. Telnet
C. SCP
D. TFTP

Q9. Which hypervisor is integrated into the Linux kernel?
A. VMware Workstation
B. VirtualBox
C. KVM
D. Hyper-V

Q10. Which command schedules recurring jobs?
A. at
B. cron
C. watch
D. nohup

☐ MEDIUM (Q11–Q25)

Q11. Which Linux filesystem supports journaling and online resizing?
A. ext2
B. ext3
C. ext4
D. FAT32

Q12. Which command modifies user group membership?
A. useradd
B. groupadd
C. usermod
D. passwd

Q13. Which file controls static mount points?
A. /etc/mtab
B. /proc/mounts
C. /etc/fstab
D. /etc/filesystems

Q14. Which DNS record specifies mail servers?
A. A
B. PTR
C. NS
D. MX

Q15. Which command reloads systemd services configuration?
A. systemctl restart

B. systemctl reload
C. systemctl enable
D. systemctl mask

Q16. Which NFS file defines exported directories?
A. /etc/nfs.conf
B. /etc/exports
C. /etc/fstab
D. /etc/services

Q17. Which Apache module enables SSL/TLS?
A. mod_proxy
B. mod_rewrite
C. mod_ssl
D. mod_security

Q18. Which Postfix file defines core mail configuration?
A. master.cf
B. aliases
C. main.cf
D. access

Q19. Which command displays system boot performance?
A. top
B. uptime
C. systemd-analyze
D. vmstat

Q20. Which Squid feature reduces bandwidth usage?
A. ACL
B. Authentication
C. Logging
D. Caching

Q21. Which command queries LDAP directories?
A. ldapadd
B. ldapmodify
C. ldapsearch
D. ldappasswd

Q22. Which VM disk format supports snapshots?
A. raw
B. ext4
C. qcow2
D. iso

Q23. Which Bash option enables debugging?
A. -e
B. -n
C. -x
D. -v

Q24. Which cron keyword runs a job at reboot?
A. @daily
B. @hourly
C. @weekly
D. @reboot

Q25. Which logging tool rotates logs automatically?
A. journald
B. rsyslog
C. logrotate
D. logger

⬤ HARD (Q26–Q40)

Q26. Why should DNS recursion be disabled on authoritative servers?
A. Improve caching
B. Reduce disk usage
C. Prevent amplification attacks
D. Speed up queries

Q27. Which LVM feature allows point-in-time recovery?
A. Striping
B. Thin pool
C. Snapshot
D. Mirroring

Q28. Which threat model category targets system availability?
A. Spoofing
B. Tampering
C. Information disclosure
D. Denial of Service

Q29. Which SSH security practice improves protection?
A. Password authentication only
B. Root login enabled
C. Key-based authentication
D. Default configuration

Q30. Which Postfix misconfiguration leads to spam abuse?
A. Missing MX record
B. Open relay
C. TLS enabled
D. Spam filtering

Q31. Which virtualization risk allows guest to affect host?
A. Snapshot overflow
B. VM escape
C. Disk fragmentation
D. Network latency

Q32. Which Apache feature enables load balancing?
A. VirtualHost
B. mod_proxy_balancer
C. mod_ssl
D. mod_alias

Q33. Which LDAP feature ensures secure authentication?
A. Anonymous bind
B. Simple bind
C. SASL/TLS
D. Flat files

Q34. Which Bash practice prevents script failure propagation?
A. set +e
B. set -e
C. set -x
D. set -n

Q35. Which NTP attack abuses open servers for amplification?
A. Replay attack
B. Brute force
C. NTP amplification
D. Man-in-the-middle

Q36. Which monitoring metric best indicates memory pressure?
A. CPU idle
B. Swap usage
C. Disk size
D. Network latency

Q37. Which security control enforces Mandatory Access Control?
A. chmod
B. ACL

C. SELinux
D. chown

Q38. Which patching approach minimizes downtime in production?
A. Manual patching
B. Emergency patching
C. Rolling updates
D. Deferred patching

Q39. Which logging practice best supports forensic investigation?
A. Overwriting logs
B. No timestamps
C. Centralized immutable logs
D. Console output

Q40. Which overarching principle best secures Linux infrastructure?
A. Open configuration
B. Default settings
C. Defense in depth
D. Maximum privileges