Linux Admin interview **must know important topics** -:

**🔹 Linux Admin Must Know Topics**

**1. Linux Basics & Commands**

* Linux architecture (Kernel, Shell, User space)
* File system hierarchy (/, /etc, /var, /home, /tmp, /boot, /proc)
* Important commands: ls, cd, cp, mv, rm, pwd, find, locate, grep, awk, sed
* File compression & archiving: tar, gzip, bzip2, zip
* File permission & ownership (chmod, chown, chgrp)
* Hard link vs Soft link

**2. User & Group Management**

* useradd, usermod, passwd, groupadd
* Sudo access configuration (/etc/sudoers)
* /etc/passwd, /etc/shadow, /etc/group file structure

**3. Process & System Management**

* Foreground vs Background jobs
* Process monitoring: ps, top, htop, pstree
* Signals & killing process (kill, pkill, killall)
* Scheduling: cron, at, systemd timers
* System performance: uptime, free, vmstat, iostat, sar

**4. Package Management**

* RPM & YUM (RHEL/CentOS)
* DPKG & APT (Debian/Ubuntu)
* Repository configuration

**5. File System & Storage**

* Disk partitions (fdisk, parted)
* Mounting & unmounting (mount, umount, /etc/fstab)
* File system check & repair (fsck)
* LVM (pvcreate, vgcreate, lvcreate, resize, snapshot)
* RAID (mdadm basics)
* Quotas

**6. Networking**

* IP configuration (ifconfig, ip, nmcli, nmtui)
* Hostname & DNS setup (/etc/hosts, /etc/resolv.conf)
* Checking connectivity (ping, traceroute, netstat, ss, curl, wget)
* SSH basics (ssh, scp, sftp)
* Firewalls (iptables, firewalld)

**7. Systemd & Services**

* Starting/stopping services (systemctl start/stop/status/enable/disable)
* Logs (journalctl)

**8. Security**

* SELinux modes (enforcing, permissive, disabled)
* File permissions, ACLs (setfacl, getfacl)
* SSH hardening (key-based authentication, config)
* Basic firewall rules

**9. Backup & Recovery**

* rsync basics
* Backup strategies (full, incremental, differential)
* Restore process

**10. Monitoring & Troubleshooting**

* Log files (/var/log/messages, /var/log/secure, /var/log/syslog)
* Disk usage (du, df)
* Resource monitoring (CPU, memory, I/O)
* Common troubleshooting steps

**11. Virtualization & Cloud (Basic Awareness)**

* KVM, VMware basics
* Basics of AWS/Azure/GCP (for hybrid environments)

**12. Shell Scripting**

* Writing simple automation scripts
* Variables, loops, conditions, functions
* Logging & debugging scripts