

LINUX MASTER INTERVIEW GUIDE (Basic + Advanced + Real Outage Scenarios)

1. Basic Linux Commands

- 1 pwd – Show current working directory.
- 2 ls / ls -l / ls -la – List files and permissions.
- 3 cd – Change directory.
- 4 touch – Create empty file.
- 5 mkdir / mkdir -p – Create directories.
- 6 cp / mv / rm – Copy, move, delete files.
- 7 cat / less / head / tail -f – View files and logs.
- 8 grep / find – Search text and files.

2. Permissions & Ownership

- 1 ls -l – Check permissions.
- 2 chmod – Change permissions (numeric/symbolic).
- 3 chown / chgrp – Change owner and group.
- 4 Special permissions – SUID, SGID, Sticky bit.

3. Process, Memory & Performance

- 1 ps -ef / ps aux – Process snapshot.
- 2 top / htop – Live monitoring.
- 3 kill / kill -9 – Stop processes.
- 4 free -m – Memory usage.
- 5 uptime – Load average.
- 6 vmstat / iostat / iotop – Performance metrics.
- 7 df -h / du -sh – Disk usage.

4. Networking Commands

- 1 ip a / ip r – IP and routing.
- 2 ss -tulnp – Listening ports with process.
- 3 ping – Connectivity check.
- 4 curl / wget – Application & API test.
- 5 nc / nmap – Port testing.
- 6 tcpdump / traceroute – Deep network debugging.

5. Services, Logs & System

- 1 systemctl start/stop/status – Service control.
- 2 journalctl – System logs.
- 3 /var/log – Application logs.
- 4 uname -a – Kernel info.
- 5 dmesg – Kernel messages.

6. REAL-TIME OUTAGE SCENARIOS (INTERVIEW GOLD)

- 1 Application Down → systemctl status → journalctl → ss -tulnp → curl
- 2 High CPU → top → ps aux --sort=-%cpu → kill
- 3 Memory Issue / OOM → free -m → vmstat → restart app
- 4 Disk Full → df -h → du -sh /var/* → clear logs
- 5 Port Not Accessible → ss -tulnp → firewall → nc
- 6 Network Issue → ip a → ip r → ping → traceroute