

# Nutanix SRE Quick Revision Sheet

## Linux Commands

- ls, pwd, cd → navigation
- cat, less, head, tail → view files
- cp, mv, rm, mkdir, rmdir → file ops
- chmod [mode] file → change permissions
  - chmod 755 file (rwxr-xr-x)
  - chmod -R 755 dir (recursive)
- chown user:group file → change ownership
- ps, top, kill, df, du, free → system monitoring
- tar -xvf, tar -cvf → compression
- scp user@ip:file . / rsync → remote copy
- ssh user@ip → remote login
- Networking: ifconfig / ip addr, ping, traceroute, netstat, curl, wget

## Networking

- OSI Model: 7 layers (Physical, Data Link, Network, Transport, Session, Presentation, Application)
- Important Ports:
  - 80 - HTTP
  - 443 - HTTPS
  - 22 - SSH
  - 53 - DNS
  - 67/68 - DHCP
  - 123 - NTP
- HTTP vs HTTPS: HTTPS = HTTP + TLS/SSL encryption
- DHCP: Assigns IP dynamically
- DNS: Resolves domain → IP
- Traceroute: path to host
- Ping: test connectivity
- NTP: sync system time

## Virtualization & Cloud

- Virtualization: Running multiple VMs on host
- Guest cannot exceed host resources
- Hypervisor Types:
  - Type 1 (bare metal) - VMware ESXi
  - Type 2 (hosted) - VirtualBox
- Cloud Models:
  - IaaS - Infra (AWS EC2)
  - PaaS - Platform (Heroku)
  - SaaS - Software (Gmail)
- Cloud basics: Public / Private / Hybrid
- AWS basics: EC2 (VM), S3 (Storage), VPC (network)

## Operating System & Hardware

- Process vs Thread
- Deadlock conditions
- Scheduling: FCFS, RR, Priority
- Memory vs Storage
- HDD vs SSD: SSD = faster, no moving parts
- Troubleshooting: structured step-by-step (Check power → drivers → config → network)

## Interview Tips

- Be confident & communicate clearly

- If unknown, say 'Not aware' confidently
- Think out loud in troubleshooting
- Revise commands, ports, protocols
- Learn basics of Hyperconvergence (Nutanix core)