

## Unix/Linux Fundamentals

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1. Getting acquainted with Linux
  - a. Logging in-out
  - b. Brief History
  - c. Unix Flavours
  - d. Linux distros
2. Linux/Unix Architecture
  - a. Concept of Multiuser-multitasking
  - b. Architectural view
  - c. Unix command structure
  - d. Getting help
  - e. Combining the commands
3. Using Linux/Unix
  - a. Frequently used commands and utilities
    - i. Ls , cat ,cd ,mkdir ,rmdir,touch ,grep etc
    - ii. User commands – who ,who am i etc
  - b. IO redirection and piping ( stdin ,stdout,stderr, tee)
  - c. Concept of Users and groups
    - i. User access privileges
    - ii. Superuser and permissions
    - iii. Password files
4. Filesystem
  - a. Filesystem concept
  - b. Unix 's File/dir hierarchy
  - c. Filesystem types
  - d. Creating and mounting filesystem
  - e. Filesystem related command
  - f. Configuration files
5. Handling Files & directories
  - a. Creation, deletion
  - b. Permissions
  - c. Compressing/decompressing files
6. Networking Utilities
  - a. Ping ,ifconfig,ssh,scp etc
  - b. Starting and stopping networking services
  - c. Network configuration files
7. Application Installation on Unix
  - a. Package formats and installation
8. Booting Linux
  - a. Boot order
  - b. Run levels and rc scripts
  - c. Configuration files for booting
9. Installation
  - a. Installation & configuration of Linux
  - b. Getting updates

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