

Getting Started With Linux

1. Introduction
 - a. History
 - b. Unix Architecture (Hardware, kernel, application)
 - c. Important Concepts
 - i. Kernel
 - ii. Shell and Environment
 - iii. Directory Structure
 - iv. Commands and applications
2. User Management
 - a. Root vs Non-root User
 - b. Important Files (/etc/passwd, /etc/shadow, /etc/groups, /etc/gshadow)
 - c. Utilities to execute commands as root (Sudo, Suid/Guid binaries)
 - d. Creating/Modifying/Deleting Users and Groups
3. File Permissions
 - a. Ownerships (Owner, Groups, Other)
 - b. File Access Modes (Read, Write, Execute)
 - c. Changing Ownership and File Permissions
4. Command-Line Text Editors
 - a. Vim
 - b. Nano
5. Processes
 - a. Listing Processes
 - b. Monitoring Resource consumed by the process
 - c. Killing Processes
6. Network
 - a. Interfaces
 - b. DNS Information and Hosts File
 - c. Identifying Open ports and associated process
 - d. Identifying Established connections
7. Steams, Pipe, and Redirection
8. Cron
9. Package management and tool installation
10. Popular Linux command and utilities