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Linux

ESSENTIALS



1. History and Development of Linux

- History of Linux.
- Benefits of Linux.
- Linux Distributions.
- Open Source.

2. Installation and Configuration

- Installation of different flavors of Linux.
- Booting Procedure.
- Installation of Linux Application/Software (rpm, yum, tar).
- Desktop Environment (KDE, GNOME)

3. Linux File Systems

- Types of File.
- DOS File vs. Linux File.
- Types of Filesystem.
- Managing the Filesystem.
- Performing Filesystem Maintenance (e.g fsck, fdisk, mkfs)
- Locating Files.
- Linux Directories Structure.

4. Configuring Linux Environment

- DOS Shell, Linux Shell.
- Working with Different Shell.
- Text-processing Utilities. (grep, cut, sed, sort, diff and patch)
- Set System Variables. (e.g PATH, USER, HOME).
- Use Common Shell Commands and Expression.
- Shell Programming using BASH Shell.

5. Creating and Viewing Files

- Using the vim Editor.
- Using Other Editors.

6. Users, Groups and Permissions

- Create, Delete and Modify Users/Groups.
- Reading and setting permissions on files and directories.
- SetUID and SetGID.

7. System Maintenance

- Mount and Manage Filesystems and Devices (e.g /dev, /mnt)
- Monitoring Free Disk Space with df/du.
- Perform Administrative task as root by using su and sudo
- Managing Software packages.
- Enhancing security with SELinux and the Netfilter Firewall.

8. Network Configuration

- Configure Network Device and Connection.
- Configure access rights (e.g., Remote Desktop, VNC Viewer, SSH)
- Configure a Server-Client Workstation.

9. Programming Platform

- Programming on Linux (e.g C, C++, Java)
- GCC, G++, JAVAC Compiler Option.
- KDevelop, EMACS.



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