

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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CompTIA Linux+

Introduction to Linux

- History and evolution of Linux
- Linux distributions and their characteristics
- Understanding open-source concepts and licensing

Linux Installation and Package Management

- Preparing for Linux installation
- Installation methods (graphical, command-line, network-based)
- Managing software packages (RPM, DPKG, APT)

System Architecture

- Understanding Linux system components
- Kernel architecture and modules
- Boot process and bootloader configuration

Linux Filesystems and Filesystem Hierarchy Standard (FHS)

- Filesystem types (ext4, XFS, Btrfs, etc.)

- Managing disk partitions and filesystems
- Filesystem permissions and ownership

Linux Shells, Scripting, and Data Management

- Command-line shells (Bash, Zsh, etc.)
- Writing and executing shell scripts
- Text processing tools (grep, sed, awk)

User Interfaces and Desktops

- Graphical desktop environments (GNOME, KDE, Xfce)
- Customizing desktop environments
- Remote desktop access and management

System Administration Tasks

- Managing users and groups
- System monitoring and performance tuning
- Backup and recovery strategies

Networking Fundamentals

- Configuring network interfaces and networking services
- Network troubleshooting tools and techniques
- DNS and DHCP configuration

Security in Linux

- Basic security concepts and practices

- File and directory permissions
- Implementing firewall rules and securing services

Linux Kernel and Modules

- Kernel management and configuration
- Loading and unloading kernel modules
- Kernel troubleshooting and debugging

Virtualization and Containerization

- Overview of virtualization technologies (KVM, VirtualBox)
- Containerization with Docker and Podman
- Managing virtual machines and containers

Cloud Computing and Orchestration

- Introduction to cloud computing concepts
- Managing cloud instances and services
- Using configuration management tools (Ansible, Chef, Puppet)

Troubleshooting and System Maintenance

- System troubleshooting methodologies
- Logging and log file analysis
- Performance monitoring and optimization

Advanced Linux Networking

- Configuring VPNs and tunnels
- Network file sharing (NFS, Samba)
- Web server configuration (Apache, Nginx)

Disaster Recovery and High Availability

- Implementing backup strategies and schedules
- High availability concepts and clustering
- Disaster recovery planning and execution