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Linux with System Administration and Cybersecurity

Course Overview

This training program is designed to prepare you for **real-world IT Infrastructure, Server Administration, and Cybersecurity** roles. You will learn **Linux Administration (from basics to advanced) + Security fundamentals**, making you ready for roles like *System Administrator, Linux Engineer, SOC Analyst L1, IT Support Engineer, Cybersecurity Technician*.

COURSE MODULES

✦ MODULE 1: Linux Fundamentals (Advanced Level)

- Introduction to Linux & Open-Source
- Linux file system architecture
- Users, Groups & Permissions
- Basic & advanced shell commands
- File management & directory structure
- Working with nano/vi editors
- Software installation (RPM, YUM, APT)

✦ MODULE 2: Linux System Administration (Intermediate Level)

- System startup & boot process

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Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappar High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

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- Managing services (systemd, systemctl)
- Process & job management
- Crontab & task scheduling
- Disk management, partitions & LVM
- Networking commands & configuration
- Firewall management (UFW/Firewalld)
- SSH configuration & secure access
- Log monitoring & troubleshooting
- Package management across distros

✦ **MODULE 3: Advanced Linux Administration (Server Level)**

- User authentication & password policies
- File system security & encryption
- Server hardening methods
- Managing Web Servers (Apache / Nginx)
- FTP, DNS, DHCP Server setups
- Backup & disaster recovery
- Shell scripting for automation
- Performance tuning & resource optimization

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CYBERSECURITY MODULES

✦ **MODULE 4: Cybersecurity Fundamentals**

- Cybersecurity concepts & terminology
- Threats, vulnerabilities & attacks
- CIA triad: Confidentiality, Integrity, Availability
- Network security basics
- Encryption fundamentals
- SIEM, SOC, IDS/IPS overview

✦ **MODULE 5: Ethical Hacking Basics**

- Footprinting & reconnaissance
- Scanning & enumeration
- Vulnerability analysis
- System hacking basics
- Malware types & detection
- OWASP Top 10 Web Security Concepts

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✦ **MODULE 6: Practical Cybersecurity & Linux Security**

- Linux hardening practices
- Firewall, iptables & fail2ban
- SSH key security
- Log analysis for incident detection
- User privilege & sudo management
- Secure file system permissions
- Setting up honeypots (intro)
- Basic penetration testing tools (Nmap, Nikto, Metasploit Basics)

✦ **BONUS MODULE (Optional)**

Cloud & DevOps Essentials (Highly Recommended)

- Introduction to AWS Cloud
- Deploying Linux servers on cloud
- Basics of Docker, Kubernetes (overview)
- Automation tools (Ansible basics)

WHO CAN JOIN?

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- ✓ Students (IT / Non-IT)
- ✓ Working professionals
- ✓ Beginners wanting IT career
- ✓ Job seekers looking for secure career
- ✓ Anyone interested in cybersecurity

Job Roles After This Course

- Linux/System Administrator
- IT Support Engineer
- Cloud Support (Linux)
- Cybersecurity Analyst – L1
- SOC Analyst
- Desktop Support with Linux
- Junior DevOps Engineer

Certification

All learners receive an **Industry Recognized Certification** upon course completion.

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