OPENPATH
PATH TO OPENSOURCE

Mastering
Linux Network Admin

Mastering Linux is a flagship, industry-aligned initiative by OpenPath, designed to equip students and IT professionals with the skills required to manage, deploy, and secure Linux-based networking and open-source server infrastructures.

This program is ideal for **B.Tech, BCA, MCA and Diploma** students who aspire to build a strong foundation in **Linux System Administration, Server Management**, and **Enterprise Infrastructure Technologies** — all at an affordable and accessible cost.

What Sets Us Apart?

Live Industrial Projects

Gain authentic hands-on experience through real-world deployment scenarios.

Career-Focused Learning

Develop confidence and technical proficiency for long-term professional growth.

Mentorship from Experts

Learn directly from industry professionals who work on enterprise-grade systems.

Pre-Requisites

- A basic understanding of networking is recommended.
- Freshers Welcome! A complimentary patch-up course on networking fundamentals is included to ensure you start with confidence.

Program Details

Duration	1.3 Months (Approx. 6 Weeks)
Course Fee	₹15,000 (All-Inclusive)
Mode of Learning	Hybrid (Instructor-led Online Sessions + Practical Labs)
Certification	"Mastering Linux – Enterprise Server Administration" by OpenPath

Comprehensive Course Curriculum

I ♥ KV IT

Our advanced curriculum covers enterprise-grade Linux server technologies and infrastructure management. Each module combines theoretical knowledge with hands-on labs to ensure practical mastery.

1 — SSH (Secure Shell)

Understanding SSH and its role in Linux/Unix server administration. Installing and configuring SSH Server and Clients. Password-based and key-based authentication. SSH hardening: ports, users, and access controls.

2 — NFS (Network File System)

Understanding NFS and its relevance in Linux/Oracle ecosystems. Installing and configuring NFS Servers and Clients. Centralized file sharing for distributed systems. Exporting shared storage across Oracle servers.

3 — LVM – Logical Volume Management

Core concepts: PV, VG, LV architecture. Flexible storage management and live volume resizing. Hands-on lab: Dynamic disk allocation and resizing.

4 — Telnet and FTP Server

Overview of Telnet and FTP protocols. Secure file transfer configuration using vsftpd. Anonymous vs authenticated access with logging. Web-based control and file management integration.

5 — Proxy Server (Squid)

Understanding Forward, Reverse, and Transparent Proxies. Implementing ACLs and IP/MAC/user-based restrictions. Optimizing browsing, caching, and traffic management.

6 — DHCP Server

Deep dive into DORA (Discover, Offer, Request, Acknowledge). Installing and configuring DHCP for dynamic/static IPs. MAC-based IP reservations and DNS integration.

7 — DNS Server

DNS record types: A, AAAA, NS, MX, CNAME, PTR, TXT. Internal, forwarder, and dynamic DNS configuration. Master-slave DNS setup with SPF, DKIM, DMARC integration.

8 — Web Server (Apache/HTTPD)

HTTP vs HTTPS: Core web concepts. Apache installation and configuration. Hosting multiple domains using Virtual Hosts. Implementing SSL certificates for HTTPS.

9 — MySQL Server (MariaDB)

Understanding MySQL architecture and key components. Data management using SQL queries. Backup, restoration, and replication strategies. Master-slave replication setup for HA.

10 — Samba Server

Role of Samba in Windows–Linux integration. File sharing via CIFS/SMB. Setting up Samba as a Backup Server & AD alternative. Managing users, ACLs, and SSO with RSAT Tools.

11 — Mail Server

Mail flow architecture: MTA, MUA, MDA, SMTP AUTH. DNS integration (MX, SPF, DKIM, DMARC). Spam control and secure email system with TLS/SSL.

12 — Linux Security

Importance of Linux server hardening. Key tools: IPTables, Firewalld, TCP Wrappers, SELinux. Secure remote access (SSH hardening). Patch management and system updates.

Why Choose OpenPath for Your Linux Journey?

Choosing the right program is a pivotal decision for your career trajectory in the ever-evolving IT landscape. OpenPath's Mastering Linux program is meticulously designed to offer more than just technical training; it provides a holistic ecosystem of support, expertise, and real-world relevance to ensure your success.

Industry-Driven Training

Our curriculum is not just theoretical; it's forged in the crucible of real-world enterprise system environments. You'll gain practical skills directly applicable to the challenges and demands of modern IT infrastructure.

Mentorship by Senior Professionals

Benefit from direct guidance and insights from senior Linux and DevOps professionals who are actively shaping the industry. Their experience provides invaluable context and advanced problem-solving techniques.

Affordable & Accessible Learning

We are committed to making high-quality, career-defining education accessible. Our learning plans are structured to be both cost-effective and flexible, removing barriers to entry for aspiring IT professionals.

Comprehensive Career Support

Our commitment extends beyond the classroom. We offer dedicated career services, including expert resume building, targeted interview preparation, and active placement assistance to help you seamlessly transition into a rewarding role.

Meet Our Visionary Founder

OpenPath is guided by the profound vision of **Mr. Vikas Debnath**, the esteemed Founder Director of KV IT-Solutions Pvt. Ltd. and the driving force behind OpenPath. His extensive experience and dedication to fostering talent underpin the philosophy of our programs.

> *"Linux is for everyone — with the right guidance, anyone can master it."*

Mr. Debnath's unwavering dedication to making Linux knowledge accessible to all is not just a principle, but the very heartbeat of OpenPath's curriculum, ensuring every student, regardless of their background, is empowered with unparalleled mentorship and resources to truly excel.

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