

Linux Server Management Course Details

Department: ICT and Security Management

Presented by Magna Skills Development Institute

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Course Summary

The Linux Server Management course offered by Magna Skills is designed to equip individuals with the knowledge and skills required to effectively manage and maintain Linux servers in a professional IT environment. Linux is a popular choice for server operating systems due to its stability, security, and versatility. This course will provide participants with a comprehensive understanding of Linux server administration, enabling them to confidently handle server tasks, troubleshoot issues, and optimize server performance.

Course Objectives

By the end of the Linux Server Management course, participants will:

1. Gain a solid understanding of the Linux operating system, its architecture, and its role in server environments.
2. Master essential server management tasks, including user and group management, file system operations, and process management.
3. Learn how to install, configure, and secure various server applications and services commonly used in Linux environments.
4. Develop the skills to monitor server performance, diagnose and resolve issues, and implement best practices for server optimization.
5. Understand the importance of server security and learn how to implement security measures to protect server resources and data.
6. Gain hands-on experience with popular Linux server distributions such as Ubuntu Server and CentOS/RHEL.
7. Prepare for professional certifications like CompTIA Linux+ or Red Hat Certified System Administrator (RHCSA).

Course Outline

Module 1: Introduction to Linux Server Management

- Overview of Linux and its role in server environments
- Linux distributions for servers
- Installation and initial configuration of a Linux server

Module 2: Linux Fundamentals for Server Administrators

- Command-line basics
- File system management and navigation

- User and group management
- Permissions and security

Module 3: Server Services and Applications

- Setting up a web server (Apache or Nginx)
- Configuring a database server (MySQL/MariaDB or PostgreSQL)
- Email server setup (Postfix and Dovecot)
- DNS server configuration (Bind9)

Module 4: Server Security

- Understanding server security concepts
- Firewalls and network security
- SSH and remote access security
- Implementing SSL/TLS certificates

Module 5: Server Monitoring and Optimization

- Performance monitoring and analysis
- Troubleshooting common server issues
- Backup and recovery strategies
- Server maintenance and updates

Module 6: Advanced Topics

- Virtualization with KVM or Docker
- Server automation with shell scripting (Bash)
- High availability and load balancing
- Introduction to cloud-based server management (AWS, Azure, or GCP)

Module 7: Preparation for Certification

- Review of key concepts and skills
- Practice exams and certification guidance

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Company Overview

Who We Are: Magna Skills is a premier training and capacity-building organization specializing in professional development for government institutions, NGOs, and the private sector.

Our Mission: To provide world-class training solutions that equip professionals with the expertise needed to excel in their careers and contribute meaningfully to their organizations.

Our Vision: To be the leading provider of professional training and development across Africa, fostering excellence, innovation, and capacity-building in public and private sectors.

Core Values

- **Excellence** – Delivering high-quality training tailored to meet the evolving needs of professionals.
- **Integrity** – Upholding the highest ethical standards in all our engagements.
- **Innovation** – Embracing new technologies and methodologies to enhance learning experiences.
- **Customer-Centric Approach** – Ensuring client satisfaction by providing relevant, practical, and impactful training.
- **Collaboration** – Partnering with industry experts and institutions to provide the best learning opportunities.

Our Training Methodology

We use a blended learning approach that includes instructor-led training, case studies, workshops, and post-training support.

Why Choose Magna Skills?

- Experienced Trainers
- Customized Training Solutions
- Interactive Learning

- Global Recognition
- Proven Track Record

Request for Training Form

Complete the form and share with Magna Skills Support Team on email info@magnaskills.com or Send Whatsapp on: +27630079022

Approval & Authorization	
Applicant Details	Course Details
First Name:	Course Name:
Last Name:	Training Venue:
Mobile:	Month:
Email:	Training Method: Online[____] Face to Face [____]
Company Name:	Duration:
Country:	Number of Staff Members:

By signing this agreement, both parties confirm their commitment to the terms outlined in this proposal.