

**ICT and Security Management**

# Linux Server Management

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE

**MSD2654**

DELIVERY

**Online / Face-to-Face**

DURATION

**Flexible**

PREPARED FOR

**Organisation Approval**

**Register for this Course**

**View Online Course Page**

## Course Overview

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 Outcomes

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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 / Curriculum

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## **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

## Target Audience

Linux Server Management

## Key Course Benefits

### Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

### Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

### Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

### Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

## Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

### Southern Africa

Practical training destinations with strong travel access and delegate support.

Pretoria, South Africa Vic Falls, Zimbabwe

Livingstone, Zambia

### East Africa

Popular regional centres for government, NGO and donor-funded project teams.

Kigali, Rwanda Kampala, Uganda Nairobi

Zanzibar, Tanzania

### West Africa & Islands

Strategic locations for regional networking and executive capacity building.

Accra, Ghana Port Louis, Mauritius

### International Executive Venue

Premium destination training for senior teams and international delegates.

Dubai, United Arab Emirates

### Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

Online, E-Learning Remote Teams Flexit

### Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

Onsite Custom Dates Group Training

## Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training

support.

[Register / Apply Online](#)

[View Full Course Page](#)

## About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training

NGO Capacity Building

Corporate Workshops

Online Learning

Face-to-Face Training

Certifica

## Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

<b>Organisation / Department</b>	
<b>Delegate Name(s)</b>	
<b>Approved Course</b>	Linux Server Management
<b>Preferred Delivery Mode</b>	<input type="checkbox"/> Online <input type="checkbox"/> Face-to-Face <input type="checkbox"/> Organisation-Based Training
<b>Preferred Training Venue /Date</b>	
<b>Estimated Number of Delegates</b>	
<b>Budget / Vote Number</b>	
<b>Contact Person</b>	
<b>Email / Mobile</b>	

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Authorised Name

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Signature / Stamp

\_\_\_\_\_

Date

Prepared by Magna Skills Development Institute | Training Coordinator: Denis Wunganayi

Register: <https://www.magnaskills.com/applyadd?c=2654> | Course Page: <https://www.magnaskills.com/course/2654> | WhatsApp: +27 63 007 9022

This document is intended to support course review, sponsorship approval, delegate nomination and organisational training planning.