



BTECH TRAINING

Study Plan Linux System Administration (LF-ADM)



About This Course

This course teaches fundamental concepts and techniques for effectively managing and maintaining Linux-based systems. It covers various topics, including Linux File System Tree Layout, Signal and Processes, Package Management Systems, System Monitoring, Process Monitoring, I/O Tuning and Scheduling, Advanced Storage, Kernel Service and Configuration, User and Group Management, Networking, Security (Firewall), Virtualization and Container Overview. With practical exercises and quizzes, this course offers a comprehensive and hands-on learning experience, allowing students to apply their knowledge and develop their skills.

Upon completion of the course, you will have a solid understanding of Linux system administration concepts and will be able to confidently manage and maintain Linux-based systems in your own environment.



Summary



Training Duration: 32 Hours (4 Days)

Course Main Subjects

- Linux Overview
- Signal & Processes
- Package Management Systems
- System Monitoring
- Process Monitoring
- I/O Tuning & Scheduling
- Advanced Storage
- Kernel Service & Configuration
- User & Group Management
- Networking
- Security (Firewall)
- Web Server
- Virtualization & Container Overview

Target Audience

System Administrators, Cloud Administrators, Developers,
Site Reliability Engineer.

Prerequisites

Linux IT Associate (LF-ASC)

Learning Output

The learning topics will assist participants in :

1. Solid understanding of Linux system administration concepts and techniques
2. Gain hands-on experience through practical exercises and assignments
3. Manage and maintain Linux-based systems confidently

Technical Requirements

Participants must have a laptop or computer with the following minimum specifications and tools installed:

Specification	Details
Operating System	Windows, Linux, or MacOS
Processor	Intel Core i3
Memory	4 GB RAM
SSH Client	Termius / Putty / MobaXTerm
Text Editor	Sublime Text / VSCode
Browser	Chrome, Brave, and firefox



Facilities and Resources

Participants will have access to the following resources on and after the training:

- **Virtual machine lab** : Available until H+5 post-training for hands-on practice and experimentation.
- **Discussion group** : Available until H+30 post-training for ongoing support and collaboration with peers.
- **Class materials** : Access to all class materials for 1 year (start day one training)
- **Certificate** : Participants will receive a certificate of completion upon finishing the course.
- **Recording Class** : Access to recorded sessions for review and reinforcement of learning.



Terms and Conditions

Course Purchase Rules

- **Registration:**

Participants must register through the official ADINUSA website and fill out the registration form with accurate and complete information.

- **Payment:**

Course payment must be made in full before access to training materials is granted. Accepted payment methods include bank transfer, credit card, and digital payment.

- **Purchase Confirmation:**

After payment is received, participants will receive a confirmation email containing course details and instructions for accessing the materials.

- **Schedule Changes:**

ADINUSA reserves the right to change the course schedule or replace instructors if necessary. Participants will be notified of such changes via email or whatsapp.



Terms and Conditions

Access Management

- **Access License:**

Each participant will be granted an access license for 1 year, starting from the date of registration. This license includes access to all relevant training materials.

- **Use of Materials:**

Training materials may only be used for personal purposes and may not be distributed, sold, or published without written permission from ADINUSA.

- **Account Security:**

Participants are responsible for maintaining the confidentiality of their account information. ADINUSA is not liable for any losses arising from unauthorized account use.

- **Access Termination:**

ADINUSA reserves the right to terminate a participant's access to training materials if violations of the applicable terms and conditions are found, including but not limited to unauthorized distribution of materials.

For detailed information regarding our terms and conditions, please visit [Terms and Conditions](#).

Certification

Upon successful completion of the course, participants will receive two certificates with validation 2 years:



Physical Certificate



Digital Certificate



Learning Strategies



Pre-Test



Theory



Hands-on Lab



Post-Test



Internal Exam



Reporting



Forum
Discussion



Training Topology



Learning Modules

Training Plan	
Topic	Outcome
Essential Commands	<ul style="list-style-type: none">• Understand Linux basics, directory structure, and terminal usage for file and system navigation.• Apply essential commands (man, find, tar, git) for file management, scripting, and troubleshooting.• Perform basic system diagnostics, manage services, disk usage, and SSL certificates through hands-on labs.
Users and Groups	<ul style="list-style-type: none">• Create and manage local users, groups, and their environment profiles.• Configure file permissions, user resource limits, and access control lists (ACLs).• Apply user and group management concepts through practical labs and quizzes.
Networking	<ul style="list-style-type: none">• Configure IPv4/IPv6 networking, DNS, NTP, and hostname resolution.• Set up SSH, routing, firewall rules, port redirection, and NAT.• Troubleshoot and manage networking services through labs and quizzes.

Storage	<ul style="list-style-type: none">• Understand and manage partitions, filesystems, LVM, swap, and RAID.• Configure automount, remote filesystems (e.g. NFS), and monitor storage performance.• Troubleshoot filesystem issues through hands-on labs and quizzes.
Operation Deployments	<ul style="list-style-type: none">• Configure kernel parameters, manage processes, services, and job scheduling.• Install and maintain software packages, manage virtualization and containers.• Troubleshoot operational issues through labs on system services, VMs, and Docker.

Thank You

Explore our full course offerings in the training catalog:

<https://adinusa.id/pro-training/catalogue>

For further assistance, please contact us at:

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