RH124 Red Hat System Administration I Training

Duration: **5 Day**

BILGINC IT Academy
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Overview

This {*training} is an entry-level Linux system administration course designed for IT professionals with little or no prior Linux experience.

This course builds foundational skills required to become a full-time Linux system administrator and serves as the first step toward RHCSA certification.

It is based on **Red Hat Enterprise Linux 10.0**.

Prerequisites

- Basic familiarity with computer systems
- No prior Linux administration experience required
- Basic understanding of command-line concepts is beneficial

Who Should Attend

- Junior system administrators
- Platform engineers
- DevOps beginners
- IT professionals starting a Linux career

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Use the Linux command line efficiently
- Manage files and permissions
- Administer users and groups
- Manage software packages using DNF and RPM
- Configure secure remote access with SSH
- Control systemd services
- Configure basic networking settings

Business Impact

This course enables organizations to:

- Standardize Linux administration practices
- Improve system security policies
- Accelerate software deployment
- Enhance operational efficiency

Student Impact

Participants will gain hands-on skills to:

- Install and configure Linux servers
- Establish network connectivity
- Manage storage and file systems
- Perform basic security administration

Outline

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Introduction to Linux and RHEL

- Open source concepts
- Linux distributions
- Red Hat Enterprise Linux ecosystem

Command Line Usage

- Working with the Bash shell
- Executing commands
- Input/output redirection

File and Directory Management

- Creating, deleting, and moving files
- Managing permissions (chmod, chown)
- Understanding file system hierarchy

User and Group Management

- Creating and deleting users
- Managing groups
- Password policies
- sudo access control

Software Management

- Package management with DNF
- RPM package installation
- Managing applications with Flatpak

Service and Process Management

- Controlling services with systemd
- Monitoring and terminating processes

Networking Configuration

- Basic TCP/IP concepts
- Configuring network interfaces

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SSH Security

- Managing SSH host keys
- Implementing key-based authentication

AI-Assisted Administration

- Using RHEL Lightspeed for AI-driven server guidance