

CentOS 8 Linux Administration - Level I

1. Installing CentOS Linux 8

Preparing to Install CentOS Linux 8
Performing a Manual Installation
Lab

2. Using Essential Tools

Basic Shell Skills
Editing Files with vim
Understanding the Shell Environment
Finding Help
Lab

3. Essential File Management Tools

Working with the File System Hierarchy
Managing Files
Using Links
Working with Archives and Compressed Files
Lab

4. Working with Text Files

Using Common Text File-Related Tools
A Primer to Using Regular Expressions
Using grep to Analyze Text
Working with Other Useful Text Processing Utilities
Lab

5. Connecting to CentOS Linux 8

Working on Local Consoles
Using SSH and Related Utilities
Configuring Key-Based Authentication with Passphrases
Lab

6. User and Group Management

Different User Types
Managing User Accounts
Creating and Managing Group Accounts
Lab

7. Permissions Management

- Managing File Ownership
- Managing Basic Permissions
- Managing Advanced Permissions
- Managing ACLs
- Setting Default Permissions with umask
- Working with User-Extended Attributes
- Lab

8. Managing Processes

- Introduction to Process Management
- Managing Shell Jobs
- Using Common Command-Line Tools for Process Management
- Using top to Manage Processes
- Using tuned to Optimize Performance
- Lab

9. Working with Systemd

- Understanding Systemd
- Managing Units Through Systemd
- Lab

10. Configuring Logging

- Understanding System Logging
- Configuring rsyslogd
- Rotating Log Files
- Working with journald
- Lab

11. Configuring Networking

- Networking Fundamentals
- Managing Network Addresses and Interfaces
- Validating Network Configuration
- Configuring Network Configuration with nmtui and nmcli
- Setting Up Hostname and Name Resolution
- Understanding Local Time
- Lab

12. Operating Running Systems

- Foundation Topics
- Managing Software Packages with yum
- Using yum
- Managing Package Module Streams
- Managing Software Packages with rpm
- Lab