

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