# Rocky Linux Administration

**Duration:** 5 Days

1. Installing Rocky Linux 8
Preparing to Install Rocky 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 Rocky 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 - SUID, SGID, Sticky
Setting Default Permissions with umask
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 Services

10. Configuring Logging
Understanding System Logging
Configuring rsyslogd
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