

Learn CentOS Operating system

Topics : [Centos Server](#)

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1. Introduction to Linux and CentOS:

- [Overview of Linux distributions](#)
- [Introduction to CentOS and its history](#)
- [Understanding the CentOS release cycle](#)

2. Installation and Configuration:

- [Installing CentOS on a physical machine or virtual environment](#)
- [Basic system configuration tasks such as setting hostname, network configuration, etc.](#)
- [Disk partitioning and file system management](#)
- [Understanding package management with yum or dnf](#)

3. User and Group Management:

- [Creating and managing users and groups](#)
- [Understanding file permissions and ownership](#)
- [Implementing user access control and security](#)

4. File System Administration:

- [Working with files and directories](#)
- [Managing file system quotas](#)
- [Disk management and monitoring](#)

5. Networking:

- [Configuring network interfaces](#)
- [Firewall configuration using iptables or firewalld](#)
- [Understanding network services like DNS, DHCP, etc.](#)

6. Security:

- [Implementing security best practices](#)
- [Configuring SELinux](#)
- [Managing user authentication and passwords](#)

7. System Monitoring and Performance Tuning:

- [Monitoring system performance using tools like top, vmstat, sar, etc.](#)

- [Identifying and troubleshooting performance issues](#)
- [Tuning system parameters for better performance](#)

8. Shell Scripting:

- [Basics of shell scripting](#)
- [Writing simple scripts to automate tasks](#)
- [Understanding variables, loops, conditionals, etc.](#)

9. Virtualization and Containerization:

- Introduction to virtualization concepts
- Managing virtual machines with tools like KVM or VirtualBox
- Introduction to containerization with Docker or Podman

10. High Availability and Clustering:

- Introduction to high availability concepts
- Configuring clustering solutions like Pacemaker and Corosync
- Implementing failover and load balancing

11. Backup and Recovery:

- Planning and implementing backup strategies
- Understanding tools and utilities for backup and recovery
- Testing backup and recovery procedures

12. Advanced Topics (Optional):

- Setting up web servers, databases, or other services
- Working with automation tools like Ansible
- Exploring cloud integration with CentOS