

Linux System Administration I

Learn to install, configure and administer CentOS 7 Linux systems, from the command line to networking and virtualisation.

5 Days

DURATION

16

TOPICS

COURSE OVERVIEW

This course covers installing CentOS 7 and using the command line to manage files, get help, and create and edit text files. It addresses managing local users, groups and password policies, setting file system permissions, and controlling processes, services and daemons with systemd. It covers configuring SSH for secure remote access, interpreting system logs, configuring IPv4 networking, archiving and transferring files, and managing software packages with yum and EPEL. It concludes with inspecting file systems and creating virtual machines using KVM and libvirt.

WHO THIS COURSE IS FOR

Linux Administrators

System Administrators

IT Support Engineers

Network Administrators

Infrastructure Engineers

LEARNING OBJECTIVES

- Install CentOS 7 and run commands from the shell
- Organise files using copy, move, create and delete operations
- Create and edit text files from the command line
- Manage local Linux users, groups and password policies
- Apply file system permissions and interpret their security effects
- Control processes, services and daemons using systemd
- Configure SSH for secure remote command-line access
- Configure basic IPv4 networking and manage software packages

16 Topics

DAY 1**Installing CentOS 7 Linux, Access CLI, Managing Files, Getting Help****TOPICS**

- Installing CentOS 7
- Log in to a Linux system and run simple commands using the shell
- Copy, move, create, delete, and organize files from the bash shell prompt
- Resolve problems by getting help

DAY 2**Create, View, and Edit Text Files from the Command Line, Manage Local Linux Users and Groups, Permissions****TOPICS**

- Create, view, and edit text files from command output or in an editor
- Manage local Linux users and groups, and administer local password policies
- Set Linux file system permissions on files and interpret the security effects of different permission settings

DAY 3**Processes, Controlling Service and Daemons, Configure SSH, Analyze and Store Logs****TOPICS**

- Obtain information about the system, and control processes running on it
- Control and monitor network services and system daemons using systemd
- Access and provide access to the cmd on remote systems securely using OpenSSH
- Locate and accurately interpret relevant system log files for troubleshooting purposes

DAY 4**Configuring Networking, Archiving Files, Configuring Package Manager****TOPICS**

- Configure basic IPv4 networking
- Archive files and copy them from one system to another
- Download, install, update, and manage software packages from EPEL and yum package repositories

DAY 5**Access Linux File Systems, Configure Virtualized System****TOPICS**

- Access and inspect existing file systems on a CentOS 7 system
- Create and use CentOS Linux virtual machines with KVM and libvirt

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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