KOENIG solutions · COURSE OUTLINE

CentOS 7 Administration

Learn to install, configure and administer CentOS 7 systems, from users and permissions to networking, virtualization and automated installation.

5 Days
DURATION

17
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 then addresses managing local users and groups, file permissions, processes, and systemd services, followed by securing remote access with OpenSSH, interpreting system logs, configuring IPv4 networking, and archiving files. Later modules cover managing software packages with yum and EPEL, inspecting file systems, and creating virtual machines with KVM and libvirt. The final module covers automating installation with Kickstart, writing regular expressions, and using the vim text editor.

WHO THIS COURSE IS FOR

- **Linux Administrators**
- **System Administrators**
- **Network Administrators**
- **IT Support Engineers**
- **Infrastructure Engineers**

LEARNING OBJECTIVES

- Install CentOS 7 and run commands from the shell
- Manage files and directories from the command line
- Manage local users, groups and password policies
- Interpret file system permission settings
- Control processes and manage services using systemd
- Configure secure remote access using OpenSSH
- Manage software packages with yum and EPEL repositories
- Automate installation of CentOS 7 using Kickstart

COURSE SYLLABUS

17 Topics

DAY 1 Installing CentOS 7, Access CLI, Managing Files, Getting Help, Create, View, and Edit Text Files from the Command Line

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
- Create, view, and edit text files from command output or in an editor

DAY 2 Manage Local Linux Users and Groups, Permissions, Processes and Controlling Service and Daemons

TOPICS

- 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
- Obtain information about the system, and control processes running on it. Control and monitor network services and system daemons using systemd

DAY 3 Configure and Securing SSH, Analyse and Store Logs, Configuring Networking, Archiving Files and Directory

TOPICS

- Access and provide access to the command line on remote systems securely using OpenSSH
- Locate and accurately interpret relevant system log files for troubleshooting purposes
- Configure basic IPv4 networking Archive files and copy them from one system to another

DAY 4 Configuring Package Manager, Access Linux File Systems, Virtualized Systems

TOPICS

- Download, install, update, and manage software packages from EPEL and yum package repositories
- Access and inspect existing file systems on a CentOS 7 system
- Create and use CentOS Linux virtual machines with KVM and libvirt

DAY 5 Automate Installation with Kickstart, Using Grep, VIM Editor

TOPICS

- Automate the installation of CentOS 7 Linux systems with Kickstart
- Write regular expressions
- Introduce the vim text editor

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.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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