

Linux/Unix Shell Scripting, Python and Perl

Learn to write shell, Perl and Python scripts to manage, automate and administer Unix and Linux systems.

3 Days

DURATION

25

TOPICS

COURSE OVERVIEW

This course covers the Unix operating system, including its components, file system, file permissions, pipes, redirection, filters and the vi editor, along with process management. It then moves into shell features and scripting with decision-making constructs, system administration commands, regular expressions, the grep family, compression and archiving, file transfer, and the sed stream editor. The final part covers awk scripting with examples, automating network devices through shell scripts, downloading web content with curl and wget, debugging shell scripts, and introductions to Perl and Python scripting.

WHO THIS COURSE IS FOR

System Administrators

Shell Script Developers

Network Automation Engineers

Linux Support Engineers

PREREQUISITES

- Basic Linux Knowledge

LEARNING OBJECTIVES

- Describe the Unix operating system and its core components
- Identify Unix file system structure and file access permissions
- Apply pipes, redirection and filter commands to process data
- Edit files using the vi editor
- Write shell scripts using decision-making constructs
- Apply regular expressions with grep, egrep and fgrep
- Automate network devices and debug scripts using awk and sed
- Explain the basics of Perl and Python scripting

25 Topics

DAY 1

TOPICS

- Define UNIX Operating System
- Understand UNIX O.S. Components e.g. Kernel & Shell
- Understand Unix File System
- Execute Unix file related general commands
- Understand file access permissions
- Understand Pipe and redirection
- Understand filter command
- Edit a file using vi editor
- Understand process management in UNIX

DAY 2

TOPICS

- Understand UNIX Shell features and its environment
- Read/Write basic shell scripts using decision making constructs
- System Administration Commands du, df, free, top, init, hostname etc
- Understand regular expressions
- Understand the grep, egrep, fgrep family of commands
- Work with compression and archiving commands
- Understand File Transfer Protocol
- Introduction to sed

DAY 3

TOPICS

- Introduction to awk scripts
- awk examples
- Automation of Network devices Using shell scripting
- Download and Save web page content using curl, wget
- Debugging Shell Script
- Introduction to Perl Scripting
- Introduction to Python
- Summary

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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