Unix/Linux Shell Scripting Eğitimi

Süre: **2 Gün**

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Overview

Unix/Linux Shell Scripting eğitimi, katılımcılara Unix işletim sisteminin temellerini öğretir ve shell script yazma becerisi kazandırır. Eğitim süresince katılımcılar, giderek karmaşıklaşan scriptler geliştirerek; konsol giriş/çıkışı, metin işleme, aritmetik işlemler, süreç yönetimi ve sinyal kontrolü gibi konularda pratik deneyim elde eder.

Prerequisites

Bu eğitime katılmak için herhangi bir ön bilgi gerekmemektedir.

Who Should Attend

- UNIX kullanıcıları
- Yazılımcılar
- Sistem yöneticileri

What You Will Learn

Bu {*eğitim} Korn Shell (ksh) üzerinden anlatılmakla birlikte; Bash, Bourne ve C Shell hakkında da kapsamlı bilgiler sunulmaktadır. Eğitim genellikle Red Hat veya Ubuntu Linux ortamında gerçekleştirilir.

Outline

Review of Core Concepts

- The history and evolution of UNIX
- The filesystem, mounting devices and inodes
- Processes, threads, scheduling and signals
- Using the essential UNIX commands
- Comparing the different UNIX shells
- Picking the right shell for the job

Starting Shell Programming

- Why shell scripts are an essential tool
- Using the shebang line to pick an interpreter
- Declaring and working with shell variables
- Built in operators for testing and arithmetic

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- Evaluating expressions using the expr command
- Testing variables with if and case
- Creating and controlling for, while and until loops
- Debugging your shell scripts

Regular Expressions

- How a Regular Expression Engine operates
- The difference between basic and extended regular expressions
- Options for using regular expressions in shell scripts
- Creating character classes and specifying multiplicities
- Meta-characters for specifying positions in the input
- Using parenthesis for grouping and submatches
- The non greedy versions of *, + and ?
- Using parenthesis that do not capture
- Applying modifiers to only part of the expression
- Using look-around assertions to match without capturing

Creating Useful Scripts

- Creating formatted output with printf
- Working with environment variables
- Testing the exit status of a command
- Looping till a command is successful
- Discarding command output using /dev/null
- Using /dev/zero to create test files
- Testing the attributes of files
- Returning an exit status from your script
- Processing command line arguments
- Reading and parsing input from the keyboard
- Processing files one line at a time
- Creating and working with arrays

Using the Sed Tool in Shell Scripts

- Understanding how Sed transforms text input
- Working with commands and addresses
- Manipulating the contents of the pattern space
- Using the hold buffer to copy and paste text
- Sed commands for selection and iteration

Using the Awk Tool in Shell Scripts

- Understanding how Awk processes text
- Breaking up input into records and fields
- Writing actions to processes records
- Using regular expressions in actions
- Awk commands for selection and iteration
- Adding functions to Awk scripts

Advanced Shell Programming

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- Trapping and handling signals
- Running other programs via exec
- Starting, monitoring and deleting processes
- Breaking up scripts into functions
- Security issues with shell scripts

Alternatives to Shell Scripting

- How Perl improves and extends shell scripting
- Object oriented scripting using Ruby and Python