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UNIX Fundamentals

Cursusduur: 5 Dagen

n Cursuscode: UF

Trainingsmethode: Virtual Learning

Beschrijving:

UNIX Fundamentals Course Overview

This Unix Operating System and Shell Programming training course introduces the delegate to the main concepts of the UNIX Operating System. The most commonly used unix commands are described in detail as are the command line wildcard and redirection facilities. The mechanisms by which a user acquires a login environment are discussed and the main features of the Korn/Posix/Bash Shells are introduced. It is designed to give delegates practical experience in developing and writing shellscripts. Most of the built-in unix shell commands are introduced together with the main program control structures.

Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Virtueel en Klassikaal™

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Doelgroep:

Who will the Course Benefit?

For the UNIX Fundamentals course, there are no formal pre-requisites, although an understanding of and exposure to information technology is advantageous.

Programmers, administrators and support personnel who need to understand the UNIX Operating system, existing shellscripts, automate procedures and write their own utilities.

Some programming experience may also prove advantageous.

Doelstelling:

Course Objectives

To provide the skills needed to work productively in a UNIX environment to develop and customise shell programs.

Vereiste kennis en vaardigheden:

There are no formal pre-requisites for this UNIX Fundamentals training course, although an understanding of and exposure to information technology and an understanding of operating systems is required.

Vervolgcursussen:

Further Learning

Oracle SQL

- UNIX Advanced Shell Programming Tools
- Linux Networking

Cursusinhoud:

UNIX Fundamentals Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION TO THE UNIX OPERATING SYSTEM

- A brief history of UNIX / Linux
- The UNIX / Linux kernel
- The UNIX / Linux file system structure
- File and directory management commands
- Absolute vs Relative Pathnames
- Further basic commands
- Exercise: Navigating the file system

Session 2: BASIC COMMANDS

- Command line syntax
- Basic file handling commands
- Basic Directory handling commands
- Filename wildcard characters
- Using commands with logical AND and OR
- Sequential command execution
- Exercise: Manipulating files and directories

Session 3: REDIRECTION AND PIPES

- Input and Output redirection
- Redirecting errors
- Piping commands
- Exercise: Using redirection and pipe facilities UNIX Fundamentals Training Course Course Contents - DAY 2

Session 4: INTRODUCTION TO THE vi/Vim EDITOR

- Overview of the vi/Vim editor
- The language of vi
- Undoing and Redoing changes
- Input Mode and Last Line Mode
- Further vi functions
- Executing commands within vi / Vim
- Customising the vi / Vim Environment
- Getting Help

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Exercises: Using the vi editor

Session 5: SEARCHING AND REPLACING TEXT

- Searching and replacing text using the vi/Vim editor
- Using regular expressions (regex)
- Using sed for search and replace
- Searching for text with grep,egrep and fgrep
- Exercises: Searching and Replacing Text

Session 8: FILTERING AND FORMATTING TEXT

- Overview
- The paste command
- The cut command
- An introduction to awk
- The nl command
- Exercises: Filtering Text

Session 9: PROCESSES

- What is a process?
- Monitoring processes
- Killing processes
- Background processes
- Job Control
- Grouping commands
- Exercise: Monitoring and controlling processes

Session 10: THE USER ENVIRONMENT

- Customising the .profile or .bash_profile
- Customising the .kshrc or .bashrc
- Exercise: Setting up an environment

Session 11: MORE BASIC COMMANDS

- The find command
- Using xargs command
- The locate command
- The df command
- The cut command
- The sort command
- Finding duplicate content
- Number sequencing
- Exercise: More Basic Commands UNIX Fundamentals Training Course Course Contents - DAY 4

Session 12: UNIX COMMAND REVIEW

- Basic Unix commands
- General commands
- File and directory handling commands
- Filename generation and regular
- expression characters
- I/O Redirection features
- Other commands

Session 13: GETTING STARTED

- What is a shell script?
- Development guidelines
- Creating and editing shell scripts
- Naming and storing shell scripts
- Executing shell scripts
- Exercise: Write a simple shell script

Session 14: USING VARIABLES

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Environment variables

Session 17: CONDITIONAL EXECUTION

- The if statement
- The test command
- Exercise: Adding validation to previous scripts

Session 18: ADDITIONAL KORN, BASH ; POSIX SYNTAX

- Other test notations
- Default and substitute variables
- Exit status codes
- Exercise UNIX Fundamentals Training Course Course Contents - DAY 5

Session 19: LOOP CONSTRUCTS

The while true and until false loops

Exercise: Enhancing the previously

Exercise: Writing a script to copy files

Exercise: Writing a script to generate

Session 20: MULTI-BRANCH DECISIONS

Exercise: Developing and writing a menu

Exercise: Add a function to a script

Session 22: INTERRUPT HANDLING

Exercise: Adding traps to the menu script

Session 23: ADDITIONAL FEATURES AND

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numbers with the 'while' loop

Loop control commands

The while loop
The until loop

written scripts

using a 'for' loop

The case statement

system

Syntax

Examples

Menu driven applications

Session 21: FUNCTIONS

What is a function?

Interrupt signals

FACILITIES

Arrays

Trapping interrupts

The exec commands

The includes notation

Exercise: Create a here script

More about loops

Here Documents

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The for loop

Session 6: RECALLING AND EDITING	Local variables
COMMANDS	Assigning values to variables
	Assessing variable values
Overview	Using quotes
The bash shell	Delimiting variable names
The korn shell	Echo control sequences
Exercises: Recall and Edit Commands	Exercise: Add variables to a script
Session 7: FILE PERMISSIONS AND ACCESS CONTROL	Session 15: INTEGER ARITHMETIC
	Using the expr command
Users and user groups	Using the (()) notation
File access permissions	Exercise: Add integer arithmetic to a
Changing file attributes	shell script
Switching users and user groups	
Linking files	Session 16: HANDLING RUN TIME DATA
Exercise: Setting and access permissions	
UNIX Fundamentals Training Course	The read command
Course Contents - DAY 3	Command line arguments
	Exercise: Writing a generic shell script
	Exercise: Writing an interactive shell
	script

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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