

Linux Shell Programming

Duration: 2 Days Course Code: LSP

Overview:

Linux Shell Programming Course Overview

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

This Linux Bash Shell Programming training course is designed to give delegates practical experience in developing and writing LINUX shell scri

Target Audience:

Who will the Course Benefit?

Programmers, administrators and support personnel who need to understand existing shell scripts, automate procedures and write their own utilities.

Objectives:

- Course Objectives
 - To provide the skills needed to develop and customise shell programs.
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Prerequisites:

- The Linux Shell Programming course assumes knowledge of the LINUX Operating System to the level covered in the Linux Introduction course. Some programming experience may also prove advantageous.
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Follow-on-Courses:

Further Learning

- Linux System Administration (LPI)
 - Linux Advanced Shell Programming Tools
 - Linux Networking
 - Oracle SQL
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Content:

Linux Shell Programming Training Course Course Contents - DAY 1

Course Introduction

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

Session 1: LINUX COMMAND REVIEW

- Basic Linux commands
- General commands
- File and directory handling commands
- Filename generation characters and regular expressions (regex)
- I/O Redirection features
- Other commands

Session 2: 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 3: USING VARIABLES

- Environment variables
- Local variables
- Assigning values to variables
- Assessing variable values
- Using quotes
- Delimiting variable names
- Echo control sequences
- Exercise: Add variables to a script

Session 4: INTEGER ARITHMETIC

- Using the expr command
- Using the (()) notation
- Exercise: Add integer arithmetic to a shell script

Session 5: HANDLING RUN TIME DATA

- The read command
- Command line arguments
- Exercise: Writing a generic shell script
- Exercise: Writing an interactive shell script

Session 6: CONDITIONAL EXECUTION

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

Session 7: ADDITIONAL KORN,BASH ; POSIX SYNTAX

- Other test notations
- Default and substitute variables
- Exit status codes
- Exercise Linux Shell Programming Training Course Course Contents - DAY 2

Session 8: LOOP CONSTRUCTS

- The while loop
- The until loop
- The for loop
- The while true and until false loops
- Loop control commands
- Exercise: Enhancing the previously written scripts
- Exercise: Writing a script to copy files using a 'for' loop
- Exercise: Writing a script to generate numbers with the 'while' loop

Session 9: MULTI-BRANCH DECISIONS

- The case statement
- Menu driven applications
- Exercise: Developing and writing a menu system

Session 10: SCRIPTING WITH AWK

- Fundamentals of AWK
- Basic AWK scripts
- AWK within Bash constructs
- Exercise: AWK scripts

Session 11: FUNCTIONS

- What is a function?
- Syntax
- Examples
- Creating a Function Library
- Exercise: Add a function to a script

Session 12: INTERRUPT HANDLING

- Interrupt signals
- Trapping interrupts
- Exercise: Adding traps to the menu script

Appendix A: ADDITIONAL FEATURES AND FACILITIES

- The exec commands
- The includes notation
- More about loops
- Arrays

Appendix B: VIM QUICK REFERENCE

Appendix C: UNIX COMMANDS QUICK REFERENCE

Appendix D: ADDITIONAL EXERCISES

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/