



Shell Programming

(MIE-SHELL, 3 days)

Description

This training in Shell Programming is designed for administrator to create and debug **shell scripts** so as to automate routine tasks. It will focus on the topics shown on the outline.

This training is conducted in a hands-on session so that participant could put into practice the syntax and concepts taught.

With the knowledge of scripting, the administrator could use them to perform a number of useful tasks such as monitoring and setting up alerts to notify him/her of the system in the future.

Who Can Benefit

Individuals who are preparing to automate system administration task from an administrator aspect.

Skills Gained

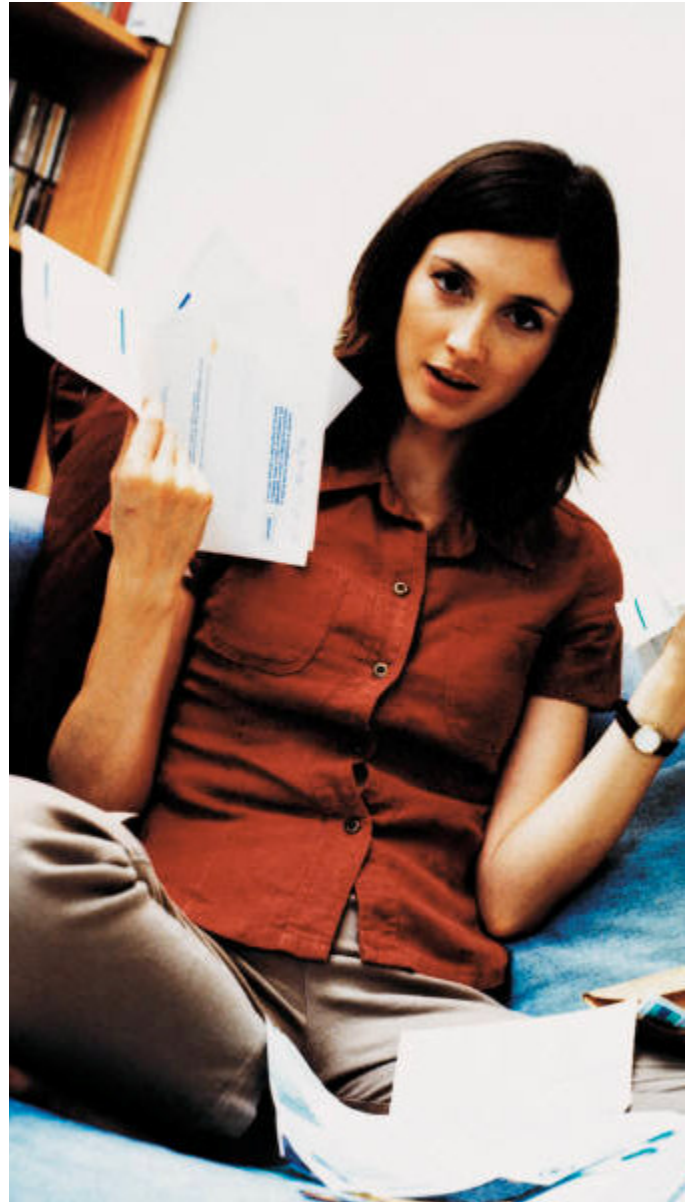
Techniques in understanding and writing Unix Shells

- Creating Scripts
- Shell Environment
- grep Command Regular Expression
- Interactive Scripts
- Advance Variables, Parameters, and Argument Lists
- Conditionals Statement
- Loops Constructs
- Functions Creation
- Signal Trapping

Prerequisites

To succeed fully in this course, students should be able to:

- Knowledge of Linux / Unix Administration with at least 1-2 years experience
- Completed Linux System Administration, Foundation Level (MIE-LSA)
- Or completed "Intermediate System Administration for the Solaris™ 9 Operating Environment" (SA-239)
- Or completed relevant Linux / UNIX Administration courses



Next Relevant Course(s)

- ❑ Linux Network & Security Management (MIE-LNS)

REGISTRATION AND INFORMATION

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Course Outline

Unix Shells

- What Is a Shell?
- Functions Of Shell
- Functions of Shell
- Types of Shell
- Shell Script

Writing Scripts

- Your First Script
- Ways to run script
- Which Shell To Use?
- Use of Comment in Script
- Debug Mode Controls

Shell Environment

- User Startup Scripts
- Variables
- Quoting Characters
- Shell Command Substitution
- Arithmetic Operations
- Korn Shell Aliases

grep Command Regular Expression

- What is grep?
- grep Options
- Regular Expression Metacharacters

Interactive Scripts

- print Statement
- Options
- Special Characters
- read Statement
- File Input and Output
- Redirection in the Shell
- here Document

Advance Variables, Parameters, and Argument Lists

- Type of Variables
- Korn Shell typeset Statement
- Declaring an Integer Value
- Creating Constant
- Korn Shell Arrays
- Command-Line Arguments
- Positional Parameters
- Values of "\$@" and "\$*"
- shift Statement
- Assigning Positional Parameter Value Using set

Conditionals

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- The if statement
- Structure of if Statement
- Exit Status
- if/then/else Statement
- if/then/elif/else Syntax
- USAGE Message
- Nested if Statements
- Testing File Objects
- Boolean Operators
- case Statement
- exit Statement

Loops

- Shell Looping
- for Loop
- Explicit List
- Contents of Variable
- Command Line Arguments
- Command Substitution
- File Names in Command Substitution
- File-Name Substitution
- while Loop
- while Loop Syntax
- while Loop - Keyboard Input
- until Loop
- break Statement
- continue Statement

Functions

- What is Functions?
- Functions Syntax
- Function – Positional Parameter
- typeset and unset
- Function File
- Autoloading Korn Shell Function

Signal Trapping

- What is Signal?
- Signal Send From Keyboard
- Catching Signals with trap
- When to Declare a trap