

ADVANCED UNIX TOOLS

Course Description

In this course, students develop more advanced skills in using UNIX tools. Users increase their productivity in UNIX by learning how to create powerful korn shell scripts for processing text, managing files, and performing other complex tasks.

Course Length: 4 Days

Course Tuition: \$1000 (US)

Prerequisites

Fundamentals of UNIX.

Course Outline

- ex and vi Options
 - ex and vi - Two Editors in One
 - ex and vi - Options
 - How to Set Options Within vi
 - How to Set Options in .exrc
- vi Buffers
 - The Unnamed Buffer
 - Named Buffers
 - Cutting and Pasting Between Files
 - The :next Command
 - The Delete Buffers
- Shell Interaction - Extending vi
 - File Name Shortcuts in vi
 - Invoking Shell Commands - ex
 - Reading the Output of a Command
 - Invoking Filters from vi
- vi Macros
 - What are Macros and Why?
 - The :map Command
 - The vi Quote Mechanism
 - Markers
 - Executing Commands from a Buffer
- Regular Expressions
- Korn Shell Features
 - Aliases
 - Command History
 - Functions
 - The print and read Commands
 - The set Command
- Introduction to sed
 - About sed
 - Why Use sed?
 - Invoking sed
 - How sed Works
- Using sed
 - sed Addressing
 - sed Addressing - Formats
 - sed Functions
- Introduction to awk
 - Introduction to awk
 - How awk Programs Work
 - Running awk Programs
- Awk Patterns
 - Summary of Patterns
 - BEGIN and END
 - Expressions

What is a Regular Expression?
Literal Regular Expressions
Regular Expressions: ^, \$, \, . [s]
Regular Expressions: *, \{m,n\}
Subexpressions
• Korn Shell Programming
Filename Generation
Parameters
Named Parameters
Positional Parameters
Special Parameters
Parameter Substitution
Here Documents
Shell Commands
Command List Separators
Control Flow - Conditionals
The case Construct
Control Flow - Loops
The trap Command

String-Matching Patterns
Extended REs in awk
Range Patterns
• Overview of Perl
What is Perl?
Running Perl programs
Sample Programs