

Intermediate Linux & Bash Shell Scripting (4 Day)

Introduction

This course is designed for those who have taken Introduction to Unix, or have equivalent experience, and require greater productivity within the Unix environment. It teaches shell scripting for the Korn shell and the Bash shell. The student can focus on a specific Shell in class, or switch between the two shells. The Korn shell is the shell historically used by Corporate America. The Bash shell is an improved Bourne shell used on **Linux** systems, **Apple's OS X** systems, and the **CYGWIN** PC desktop application. Typical Unix commands used in shell scripting will be presented along with programming concepts used in writing scripts (branching, loops, variables, quoting, sub-shells, debugging, and trapping signals). The stream editor **sed** is also covered with an introduction to basic **regular expressions**.

Audience

This course is designed for anyone that desires further knowledge of Linux and the ability to solve problems and create automatic processes

Prerequisites

Introduction to Unix, and a few months of on-the-job use in Unix is ideal. Working knowledge of "vi" is a must.

Topics Covered

- Examine files and processes that effect the functioning of your shell environment.
- Expand your knowledge on Unix text handling utilities useful in shell scripting.
- Manage processes with job control and the kill command.
- Debugging techniques.
- Flow control with the "if-then", "if-then/elif-then/else" constructs, "for" loops, the "select" and the "eval" command.
- Passing arguments into your scripts and using positional parameters.
- Regular expressions.
- Using the "sed" stream editor.
- Shell arithmetic, "while loop", and the "case" construct.
- Here documents to embed multi-line documents within a shell script
- Understanding Shell functions.
- Controlling the execution of your scripts.