

UNIX/LINUX TOOLS AND UTILITIES

The main focus of this course is to cover two important and powerful UNIX utilities: sed and awk. As these utilities are a natural progression from using the UNIX tool grep, it is also included.

Audience

Users, Programmers and System Administrators who want to quickly solve an assortment of problems without recourse to any particular programming language.

Prerequisites

Experience of using everyday UNIX, AIX or Linux system tools, use of the *vi* or *vim* editor and some exposure to writing scripts. For those delegates without these skills, attendance of the **Introduction to UNIX** course, the **Introduction to AIX** course or the **Introduction to Linux** course is recommended. Attending the **Korn Shell Programming** course or the **Linux bash Shell Programming** course may also be beneficial.

Duration

2 days, hands-on.

Course Objectives

On completion of this course, the delegate will be able to:

- Understand how regular expressions are used with some tools and utilities
- Use *grep* for text, string and pattern matching
- Use the stream editor *sed* to apply a series of edits to a number of files
- Use *awk* to manipulate data and generate formatted reports

Course Contents

Miscellaneous UNIX Tools

- Useful everyday tools

grep

- Regular expressions
- Substitution and global commands
- Pattern matching

sed

- Format of command
- Operation
- Format for addresses
- Summary of commands
- Simple commands
- Appending and changing text
- Inserting and deleting text
- Substitution and translation
- Printing
- Reading and writing files
- Branching
- Multi-line commands

awk

- Using *awk*
- Patterns and Actions
- Operation
- Program format
- Variables
- Built-in variables
- BEGIN and END
- The ***printf*** statement
- Functions
- Passing parameters