



Perl with Shell Script Course Content:35-40hours

Course Outline

PERL SCRIPTING COURSE CONTENT

Perl Overview

- PERL history
- Running Perl scripts
- Data types
- Basic concepts (assignment, comments)
- Standard I/O, print)

Scalar Data types

- Numbers and strings
- Literals and variables
- Numeric functions Interpolation
- String functions

Flow Control

- Conditional statements
- Relational and logical operators
- Control loops

Arrays

- Variables
- Creation, Assignment and access
- Built –in array functions



Hashes (Associative Arrays)

- Variables, creation, assignment and access
- Access
- Hashes as arrays
- Build in Hash Functions

Subroutines

- Basic I/O (STDIN, STDOUT, STDERR)
- Files handle and file handling
- Error handling
- Directory Processing
- System Processing Management

Regular expression

- Pattern matching
- Templates
- Wildcards and character classes
- Recovering previous matches
- Recovering previous matches

User Defined Functions

- Using and creating Functions
- Arguments and Return values
- Scoping
- Prototypes

SHELL SCRIPTING COURSE CONTENT

Creating a Simple Shell Script

Introduction

- The Shell as a Programming Language
- Creating Shell Scripts
- Some Basics
- Input and Output Redirection
- Scripts vs Compiled Programs

- Shell Script Examples

Filename Generation & Quoting

- Introduction
- Metacharacters
- Filename Generation Characters
- Filename Generation
- Quoting
- The Comment Character

Using Shell Variables in Scripts

- Introduction
- Creating and Referencing Variables
- Executing Files
- An Example Process Hierarchy
- visibility of Shell Variables
- The Environment of a Process

Input for Shell Scripts

- Introduction
- Command Substitution
- Interactive Input for Shell Scripts
- Command Line Input
- Catching Signals
- Partial Quoting
- Overview of Shell Interpretations

Using Conditional Constructs

- Introduction
- Flow Control Constructs
- The case Construct
- Return Values
- The exit Command

Using the if and test Commands

- Moving Command Arguments
- Conditional Operators

Using Looping Constructs

- Introduction
- Overview of Looping Constructs
- Looping Over a List
- Skipping Items
- Generating Word Lists
- Waiting for Something to Happen
- Looping While a Condition Holds
- More about break and continue
- Redirection