Programming in Perl Technologies (3 Day)

COURSE DESCRIPTION

This course teaches both the programming interface and the techniques that can be used to write procedures in Perl (Practical Extraction and Report Language). Perl is now available for all system platforms, and is usually provided by the system's distributor (except Windows).

COURSE PREREQUISITES

Completion of the Fundamentals of Unix (or Linux) course is assumed (if working on a Unix / Linux Perl platform. Usage of NOTEPAD for Windows-based Perl is assumed. A knowledge of awk is useful but not mandatory.

COURSE OBJECTIVES

Each student will be able to use Perl techniques and commands to write scripts to perform various user and administrative tasks.

COURSE TOPICS

Overview of Perl
Purpose of the language
History of the development of Perl
Control capabilities:
files
processes
network
obtaining Perl and building / installing
obtaining modules from CPAN

Writing Perl Scripts
Layout of a Perl procedure
Execution methods
Types of variables
scalars
lists (arrays)
associative arrays (hashes)
Perl built-ins
globals
Pragmas
usage in Perl scripts
documentation
implementation

COURSE TOPICS

Operators
  precedence
  arithmetic
  increment/decrement pattern matching
  relational
  conditional
  assignment

Perl Programming Constructs
  Looping statements
  Decision statements

Perl Expressions
  Regular expressions review
  Expressions common to Perl/Unix
  Expressions unique to Perl

Perl File I/O
  Using ARGV value(s)
  Using Filehandles

Interfacing Perl with the Operating System
  System calls
  Process control
  File manipulation
  Adding and using (contributed) Perl modules

Subroutines in Perl procedures
  Using as functions
  Passing arguments (scalars)
  Passing arguments (arrays)
  Introduction to References

Using Perl Extension Functions
  Location of procedures
  Types of extensions
  The require statement
  The use statement