

Bash Shell Script Programming

Course Summary

Description

Bash Shell Script Programming

Topics

- Special characters
- Variables and parameters
- Tests
- Loops and Branches
- Another look of variables
- Commands 1
- Commands 2
- Working with I/O
- Other topics

Prerequisite

Basic Linux/UNIX knowledge is required for this course.

Duration

Five Days

Bash Shell Script Programming

Course Outline

- I. *Introduction*
 - A. What is shell
 - B. Type of shells
 - C. Writing shell scripts
- II. *Special characters*
 - A. Special characters in file globbing
 - B. Special characters as metacharacters
 - C. Special characters as shell keywords
 - D. Special characters in regular expressions
 - E. Quoting
 - F. Escaping
- III. *Variables and parameters*
 - A. Variable substitution
 - B. Indirect references
 - C. Variable names
 - D. Variable assignment
 - E. Variable scopes
 - F. Arrays
 - G. Positional parameters
 - H. Exit and Exit Status
- IV. *Tests*
 - A. if/then construct
 - B. Test commands
 - C. File test operators
 - D. Other comparison operators
 - E. Compound comparisons
 - F. List constructs
- V. *Loops and Branches*
 - A. for loops
 - B. while loops
 - C. until loops
 - D. Loop control
 - E. case/esac
 - F. select loop
- VI. *Another look of variables*
 - A. Numerical constants
 - B. Operators
 - C. The double-parentheses construct
 - D. Internal Variables
 - E. Typing variables
 - F. Manipulating Variables
- G. Arithmetic expansion
- VII. *Commands 1*
 - A. Command substitution
 - B. Internal commands and Builtins
 - C. Aliases
- VIII. *Commands 2*
 - A. External Commands
 - B. wc, basename, dirname, find, grep, sed, awk
 - C. Regular Expressions
 - D. Globbing
- IX. *Working with I/O*
 - A. Here documents
 - B. Here strings
 - C. I/O redirection
- X. *Other topics*
 - A. Subshells
 - B. Restricted shells
 - C. Process substitution
 - D. Functions
 - E. Using traps
 - F.