

Basic Shell Scripting

1. Shell Basics

1. Types of shells
2. Shell functionality
3. Environment

2. Writing first script

1. Writing script & executing basic script
2. Debugging script
3. Making interactive scripts
4. Variables (default variables)
5. Mathematical expressions

3. Conditional statements

1. If-else-elif
2. Test command
3. Logical operators-AND,OR,NOT
4. case -esac

4. Loops

1. While
2. For
3. Until
4. Break & continue

5. Command line arguments

1. Positional parameters
2. Set & shift
3. IFS
4. Break & continue

6. Functions & file manipulations

1. Processing file line by line
2. Functions

7. Regular Expression & Filters

1. What is regular expression
2. Grep,cut ,sort commands
3. Grep patterns

8. SED & AWK

9. Processes

1. Concept of process in Unix
2. Background processes

3. Scheduling processes -At, batch & Cron

10. Misc

1. Trapping signals
2. String substitutions / manipulations

11. Advanced Shell Scripting

12. Advanced Scripting Techniques

1. Providing command line options to scripts
2. Shell & subshells
3. Exporting variables
4. Arrays
5. Remote shell execution
6. Dialog boxes

13. Automation with Shell

7. Code reuse concept
8. Automated program development

14. Essential System Administration jobs

9. Managing disk space/file system
10. Startup-Shutdown scripts
11. Backup-cpio-tar
12. Monitoring , health check

15. Test Development of software languages

13. Design and concept of test setup
14. Sample design and demo

16. Report Generation

1. Report generation for the client requirement
2. Log file reviewing