

Kore Infotech Learning centre

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Basic To Intermediate Shell Scripting

Topics

Part 1: Revision

Revision of Useful Unix Commands

- **Manipulating Command execution**
- **Manipulating strings using awk & sed**
- **Complex commands, pipes, filtering**

Shells and their role.

Shell Scripting Basics

Introduction to Variables and Parameters

- **Variable Substitution**
- **Variable Assignment**
-

Quoting

- **Qoting Variables**
- **Escaping**

Exit and Exit Status

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Tests

- **Test Constructs**
- **File test operators**
- **Other Comparison Operators**
- **Nested if/then Condition Tests**

Operators and Related Topics

- **Operators**
- **Numerical Constants**
- **The Double-Parentheses Construct**
- **Operator Precedence**

Part 2 : More Basics

Internal Variables

Manipulating Strings

Loops and Branches

- **Loops**
- **Nested Loops**
- **Loop Control**
- **Testing and Branching**

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Advanced Shell Scripting

Topics

Part 1: Advanced Topics

Internal Commands and Builtins

- Analyzing a System Script
- Regular Expressions
- Arief Introduction to Regular Expressions
- Globbing
- Here Documents
- Here Strings

I/O Redirection

- Using exec
- Redirecting Code Blocks

Subshells

Process Substitution

Functions

- Complex Functions and Function Complexities
- Local Variables

Part 2: Advanced Concepts

Debugging

- Options

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Things to Note - Careful considerations for writing good code.

Shell Wrappers

Optimizations

Ideas for more powerful practical scripts

Security Issues

- **Infected Shell Scripts**
- **Hiding Shell Script Source**
- **Writing Secure Shell Scripts**
- **Portability Issues**

Other Interesting Topics

Shell Scripting Under Windows

