

## Unit-1 Introduction of Basic Shell Scripting

- What is Scripting ?
- What is Shell Scripting ?
- Why We need Shell Scripting ?
- What is OS ?
- What is application ?
- What is Shell ?
- Types of shell available in LINUX ?
- What is kernel ?
- Kernel Task ?
- Relation between shell and kernel ?
- How to check login shell and kernel release ?
- How to write any simple Bash Scripting ?
- What is shebang in script file ?
- What is comment section in script file ?
- What is program body in script file ?
- How we can run any scripting manually ?
- How we can run any scripting using crontab ?
- What is the use of echo command ?
- What is the use of variable in programming ?
- Types of variable ?
- What is the use of Quotes in scripting ?
- Types of Quotes in scripting ?
- What is the use of expr command ?
- Expr examples ?
- Numbers adding examples ?
- Use of read command ?
- Reading User Input
- Usage of date & cal command in script ?
- Hello World Bash Shell Script
- Simple Backup Bash Shell Script

## Day - 2 Conditional Statements

- If – then- fi
- If-then-else-fi
- If-then-elif-elif-else-fi

### Arithmetic comparison operator

- Numeric comparison operator
- String comparison operator
- File testing operator

### Logical operator

- AND
- OR
- NOT

Examples of if statement with three types of operator

## Day - 3 Loop Example

- 1- What is the use of Loop ?
- 2- Types of Loop ?
  - FOR Loop
  - SELECT Loop
  - WHILE Loop
  - UNTIL Loop

Examples of Loop Concept in shell scripting ?

Examples of infinite Loop ?

Examples of Sleep command in Loop ?

Break and continue examples in Shell Scripting ?

Example of exit operator in Shell Scripting ?

## Day - 4 Case & Function Examples

- Case Examples without Loop
- Case Examples with Loop
- What is the use of Function in Shell Script ?
- What is the use of Nested Function in Shell Script ?

## Day - 5 Special types of Symbols in Shell Scripting

- Pipe symbol
- Usage of semicolon
- Usage of > and >> symbols
- Tee command example
- Input, Output and Error Redirections Symbols
- STDIN , STDOUT & STDERR
- Find & locate
- Less & more

## Day - 6 & 7 Useful utilities for Shell Scripts

- cat,
- tac
- head
- tail
- sed
- date
- cal
- grep
- egrep
- fgrep

- tr
- cut
- awk
- Sort
- Uniq
- here Operator
- du , df , lsblk , fdisk

Examples of Every command in shell scripting ?

## **Day - 8 Array & Network Based Example in Shell Scripting**

- Array examples
- Network based automatic backup script
- SSH Based Examples
- FTP based examples
- NFS based Examples
- SAMBA based Examples
- Database based Examples

## **Day-9 Positional Parameter and shift operator**

## Day-10 Advanced Shell Scripting with GUI based tool

- Reading input with read
- Shell Functions
- Reading Options with getopt
- Signal Handling with trap
- Implementing Simple Menus with select
- Dialog Boxes with dialog
- Yes/No Box(yesno)
- Message Box(msgbox)
- Input Box(input box)
- Text Box(text box)
- Menu Box(menu)
- Check List Box(checklist)
- Radio List Box(radio list)
- progress Meter Box(gauge)
- Special Variable Substitution Operators for Bash
- Debugging Shell ScriptsSample ScriptsBottom of Form

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