



UNIX SHELL:

UNIX is an operating system which was developed in the year 1960s. It is a stable, multi-user and multi-tasking system for servers, desktops and laptops.

UNIX operating systems also have a graphical user interface (GUI) which is similar to Microsoft Windows, which provides an easy to use environment.

Features of UNIX:

- It is a multi-user system where the same resources can be shared with different users.
- It also provides multi-tasking, where each user can execute many processes at the same time.
- It was the first operating system that was written in a high-level language (C Language). This made it easy to port to other machines with minimum adaptations.
- It provides a hierarchical file structure which allows easier access and maintenance of data.
- UNIX has built-in networking functions so that different users can easily exchange information.
- UNIX functionality can be extended through user programs built on a standard programming interface.

Uses of UNIX:

- Multi-tasking



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- A backbone of modern technologies
- Impactful towards other OS
- An invention of Linux
- A host of services
- Command-line functionality
- Text-based processes
- Regular Expression
- Modularity and reusability
- Network protocol

Course Content:

Introduction:

- The UNIX Shell The Bourne
- Korn & C Shells UNIX Shell Scripts

Review:

- Commands, ls
- Redirection, Pipes, Find, Grep, Sort

UNIX Shell Features:

- Invoking a Shell



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- Command line expansion
- Command Arguments
- Meta-characters
- Quotation marks
- Redirection
- File descriptors
- Here documents, Redirection, Pipes, Tee
- Defining Exporting and Environment variables
- Command grouping
- Conditional execution

Basic Shell Scripts:

- Positional and Automatic Parameters Set
- Reading input
- Writing to standard output
- Display attributes
- Interactive Shell scripts



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Bourne & Korn Shell Programming:

- If statement
- While statement
- Case statement
- Test command
- For statement
- Break statement
- Continue statement
- Tests on numeric values
- String comparisons
- Command exit status
- Logical operators
- Error handling
- Arithmetic

Korn Shell Extensions:

- Extensions
- Command substitution



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- Arithmetic expressions
- Valid arithmetic operators
- Variable attributes
- Typeset, Built-in variables
- Select command

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info@uiskills.com

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