

# Kore Infotech Learning Centre

#05-06, Tai Seng, LHK 2 Building,  
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## Unix Basic to Intermediate

### Introduction to UNIX

- History of Unix, Unix Features, Unix System V, Standards

### Executing UNIX Commands

- Logging in, The shell prompts, Unix Commands syntax, Arguments and options, Basic Unix commands, Terminal characteristics.

### Unix Kernel, Virtual Memory, Processes

- Kernel resource usage, paging, swapping.

### The UNIX Filesystem

- File system structure, Directories and files, Important Unix directories, The Kernel, User's home directory, Naming convention.

### Accessing Files

- Wildcards, Pathnames (Absolute & Relative), Changing Directories, Listing files, File details, Sub-directories (making & removing).

### Redirection

- Standard input & output devices, redirecting output and appending output, Displaying contents of files.

### File Management

- Copying files, Removing files, (interactively & recursively), Moving files, Managing Multiple files, Removing directories

### Permissions

- Finding User, Group and other permissions, Read, Write and Execute permissions, Effect of permissions on files and directories, The unmask, Changing permissions on files and directories. Changing file ownership and group

### Linking files

- I-nodes, Hard links, Symbolic links

### Sorting the Contents of Files

- ASCII, Normal Sort, Numeric Sort, Merging Sorted Files, Saving the Sorted Output, Sort Keys.

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## Other Unix File Utilities

- Counting words, lines and characters, Looking at the start and end of files, File comparisons , awk, sed

## Combining Unix Commands and Utilities

- Piping standard output to new commands, Filtering standard output in a pipeline.

## Finding Files

- The find command syntax, Defining search, Find actions, Executing commands on matched files

## Finding patterns in files

- Grep regular expressions, Special characters

## The Unix editors

- Invoking vi, COmmand and edit mode, Moving around, Undo, Deleting, Saving, Pattern searches, Changing text, Replacing text, Moving text, Copying and Pasting, Joining lines, Named buffers, Substitution, Global substitution, Advanced Vi.

## Introduction to Bourne & Korn Shells

- Different shells and features, Invoking a shell, The PATH, Quotation marks, Variables, Shell variables, Exporting variables, Environment variables, Process variables, User profiles.

## Processes

- Foreground processes, Background processes, Command priority, Process status, Killing processes

## Networking Basics

- Basics of networking, transferring files between machines, discussion of ssh, ftp, smtp and other protocols and services

## Shell Script Basics

- Creating and executing a script, Script parameters