

CCA - Linux 1&2

Embarking on a journey into the world of UNIX/Linux unlocks a realm of possibilities for efficient computing.

Justification and Overview

This course offers a fundamental exploration, beginning with the basics of logging in and out of terminals, and the nuances of entering commands. Special key sequences and the ability to establish remote sessions through SSH are pivotal skills for navigating the Linux environment.

An understanding of the UNIX directory layout, managing files, and mastering the use of absolute and relative pathnames form the bedrock of file system management. As users become familiar with moving through directories, creating and deleting them as needed, they also learn to harness the power of metacharacters for pattern matching, along with file creation and editing.

The course advances into scripting, teaching users to automate daily tasks and write scripts for repetitive operations, sharpening efficiency. Debugging scripts is an essential skill in ensuring smooth task automation. To make the experience more user-friendly, learners are introduced to Linux shortcuts and 'Lazy man's Linux', revealing tricks for adept use of the system, even without a graphical user interface.

Diving deeper, the course explores the capabilities of redirecting, piping, and filtering to manipulate the standard input and output streams, and to concatenate commands for complex tasks. These are indispensable techniques for data processing and command-line wizardry.

The final focus is on the art of searching – a critical toolset for locating files and searching within them, equipping users with the ability to swiftly find the information they require. This extends to efficiently renaming multiple files, showcasing the course's comprehensive approach to mastering Linux fundamentals.

COURSE AIMS

This course navigates the essentials of UNIX/Linux, from basic commands, remote SSH access, and file system navigation to scripting, task automation, and data handling with redirects and searches, all aimed at boosting command-line proficiency.

CONDITIONS OF ENTRY

Students are not required to have any specific experience before participating in this course. A strong technical aptitude and the completion of other courses CCA series are strongly recommended or equivalent training, will lay a robust groundwork for this course.

With this knowledge, users are well-prepared to interact with the system at a level that promotes **productivity, security, and control.**

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Course Objectives

Accessing UNIX/Linux

- Logging In and Out (terminal)
- Entering Commands
- Special Key Sequences
- Remote Sessions (SSH)

Files

- Files and Directories
- UNIX Directory Layout
- Showing Directory Contents
- Absolute and Relative Pathnames
- Moving Around Directories
- Creating and Deleting Directories
- Metacharacters
- Creating files
- Editing files

More Linux

- Scripting
- Automating daily tasks
- Writing Scripts to repeat tasking
- Debugging Scripts
- Linux Shortcuts
- Lazy man's Linux
- Apt-Get install
- Navigating without a GUI

Redirects, Pipes and Filters

- Standard Input and Output
- Joining Commands
- Filters

Searching

- How to Search
- Searching for Files
- Searching Within Files
- Renaming Multiple Files

To learn more, speak to our team today:

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