



Using the Unix/Linux system

REFERENCE	CLU
INTENDED PARTICIPANTS	This course is valuable for all those who want to master the use of Linux, the basic fundamentals to acquire administrative skills, development, safety, maintenance and more. Basic computer knowledge is assumed.
LEARNING OBJECTIVES	Manage, control and automate the tools from the GNU/Linux system. Create, edit and search Linux files and Linux directories. Limit access to the file system by controlling permissions and rights. Combine and link the commands to filter and edit data in text format. Exploit Bash shell features to enhance the command line interface. Backup and restore a Linux system. Understand network services for Linux.
DURATION	3 days
DELIVERY PRICE	Contact Us

COURSE CONTENT

INTRODUCTION

- UNIX history
- UNIX features
- Multi-tasking - Multi-users
- Tree and file system
- Kernel and processes
- Shell and commands
- The TCP/IP environment
- UNIX - a standardized system
- UNIX market systems

A SESSION

- How to connect
- The text mode connection
- Graphics mode with the CDE desktop
- A session
- Some commands
- Using the keyboard
- Documentation

FILES AND DIRECTORIES

- The Directory Tree
- The paths
- File attributes
- The syntax of a command line
- File management commands
- The ls command
- Copy, delete, rename a file
- The cat command
- The file command
- Directory management commands
- The cd command
- Creating and deleting directories
- Tree copying and removal
- The find command



Using the Unix/Linux system

THE SHELL

- The shell, generalities
- The wildcards
- The protection of special characters
- Redirecting standard input output
- Redirects, tubes

RIGHTS

- Users and groups
- Rights management
- Know the rights (ls -l)
- Change the rights (chmod)
- Rights on folders
- Default rights (umask)
- Managing groups
- Additional rights

ADDITIONS OF THE SHELL

- Redirecting errors
- Command history (vi mode)
- Aliases
- The environment
- The ~/.profile file
- The "scripts"

PRINTING

- The principle of printing
- Printing, orders
- Other printing services

THE FILTERS

- Filter panorama
- pr and lp commands
- The more command
- The pg command
- The tr command
- The cut command
- The sort command
- The grep command
- Regular expressions
- The sed command

BACKUP

- Backup
- The tar command
- The cpio command
- The pax command

COMMUNICATION TOOLS

- Panorama of communication tools
- Live communication
- E-mail



Using the Unix/Linux system

LINKS

- Links - the concept
- Links - the commands
- Symbolic links

PROCESS MANAGEMENT

- Notion of process
- "background"/"foreground"
- Process management, the commands
- The kill command
- The ps command
- Managing jobs

Vi EDITOR

- vi modes
- Essential commands
- Cut/paste
- Other commands
- vi setting
- The ed editor
- The emacs editor

UNIX AND NETWORKS

- UNIX and TCP/IP networks
- Internet commands
- Remote Login (telnet)
- File transfer (ftp)
- Electronic mail (e-mail)
- NFS
- Samba
- Remote Commands
- The ssh command
- X-Window

PRACTICAL WORK

Theoretical lectures alternate with immediate application through several practical sessions to provide effective instruction.

Methods and best practices to use Linux machines effectively.

Feedback from Linux specialists.