Linux Introduction

Course: **00037**

Filter: **Beginner**

Duration: **20 hours**

Category:: **Linux/Unix**

Price: **3000,00 €**

About Course

Bring greater efficiency to your IT infrastructure by learning to employ the standardized and finely tuned processes of the Linux operating system in your enterprise environment. In this training course, you gain the foundational knowledge and skills to administer and support your Linux OS, and learn to control permissions, process data, and perform administrative tasks.

What you'll learn

- Administer and support Linux in your environment
- Manage and automate GNU open-source tools
- Create, edit, and search files and directories
- Connect to network services
- Run shell scripts for automation

Materials included

- This course uses Red Hat Enterprise Linux
- Concepts taught are applicable to all Linux distributions

Pre-requisites

- Basic computer knowledge and familiarity operating a computer system.

Curriculum

Module 1: Introducing Linux

- The UNIX heritage
- Linux inception
- Linux kernel and GNU tools

Module 2: Accessing the System

- Applying system settings
- Customizing favorites
- Personalizing the terminal window
- Switching to console logins
- Performing an SSH login
- Structuring commands

Module 3: Managing Files and Directories

- Contrasting full and relative pathnames
- Unraveling the file system hierarchy
- Handling files cp and mv
- Making and navigating directories
- Listing attributes with ls
- Accelerating command line usage with Bash wildcards
- Scrolling through files with GNU less
- Comparing files with diff

Module 4: Controlling Access to Linux Resources

- Identifying multiple users and groups
- Adjusting access permissions: chmod
- Joining secondary groups
- Inheriting and changing group ownership
- Switching identity

- Changing passwords
- Raising privilege with su, sudo and setuid
- Locating files with find
- Finding pathnames with locate
- Matching lines with GNU grep
- Selecting lines and fields: head, tail, gawk and cut
- Redirection and pipelines
- Automating stream edits with sed
- Creating and modifying files: vim, gedit

Module 5: Leveraging Bash Shell Features

- Setting options: noclobber and ignoreeof
- Assigning to built-in shell variables
- Exporting variables to the environment
- Extending login and start-up scripts
- Retrieving and reusing previous commands
- Exploiting file name completion shortcuts

Module 6: Automating Tasks with Shell Scripts

- Taking bash input from a file
- Running scripts using source
- Checking exit status with if
- Verifying file attributes with conditionals

Module 7: Executing Jobs and Processes

- Launching multiple jobs
- Signaling with kill
- Compressing with bzip and gzip