KAÏNA-COM
TRAINING CATALOGUE

Linux System Administration

This hands-on course teaches the participants the basic skills needed to administer a Linux system

Nos locaux
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KLI005 – Linux System Administration

Reference	KLI005

Experience	☒ Beginner
	☐ Intermediate
	☐ Advanced

Duration	Training Program:
	• 3 days

Training Method	☐ I: i-learning, individual training (web-based training)
	☒ V: v-learning, virtual class
	☐ C: c-learning, classroom training

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Price	2.049,00 € HT

Prerequisite	Introduction to Linux or Linux Fundamentals or equivalent. Some experience in using Linux or Unix.

Audience	Linux users who are interested in building skills in system administration. The course is a pre-requisite to the Linux systems programmer course.

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KLI005 – Linux System Administration, Continued

Objective

This hands-on course teaches the participants the basic skills needed to administer a Linux system. The course starts by presenting an overview of the Linux system and looks more closely at the operating system commands. Administrating hardware and basic understanding of the kernel modules are included. Starting and stopping the system are explained. Administrating the file systems, system monitoring and basic shell scripting are also presented.

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KLI005 – Linux System Administration, Continued

Course Contents

Course Contents :

Table 1: KLI005 - Course Contents

Chapter	Description
What is Linux?	• Brief history: Unix origins and variants • Linux's origins and distribution
Linux system overview	• Kernel • Init • Getty • Syslog • Networking • Printing
Commands	• Text processing filters • Basic file management • Pipes and redirection • Regular expressions
Hardware	• dev • proc • MAKEDEV and mknod • Lspci, lsdev, lsusb • Hdparam
Kernel modules	• mod commands • modprobe

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KLI005 – Linux System Administration, Continued

Course Contents, continued

Chapter	Description
Boot, initialization, and shutdown	• Introduction to Grub & Lilo • Runlevels • Troubleshooting
Filesystems	• Partitions • Types of filesystems • Creating and mounting filesystems • File ownership and permissions • Hard and symbolic links • Standard filesystem hierarchy
System monitoring	• Processes: Monitoring, changing priorities, killing • stat commands • Lsof • Df, du and quotas
Basic shell scripting	• Basic shell scripting • Creating and running a script • Debugging scripts • The Bash environment • Regular expressions • Conditional statements • Sed & awk • Functions, iterations • Interactive scripts
The End	• Summary • Q&A • Evaluation

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