

Hands-on course , 2
day(s)
Ref : BUX

Pre-requisites

The students should have
a general knowledge of
computers and systems.

Next sessions

Unix/Linux Essentials, Hands-on

OBJECTIVES

This training is clearly lab-oriented. It presents a chosen selection of essential Unix knowledge that will enable you to use a Unix system on its everyday tasks.

1) Hands-on the system

2) Managing files, using text editors

3) Understanding and using shell

4) Using and building tools, communicating

5) Describing multitasking

6) Reading and modifying a shell script

7) Using Unix on a network

Workshop

Students will be using networked workstations under Unix (AIX, Solaris, HP/UX and Linux) to perform the various labs.

1) Hands-on the system

- Different Unix versions (AIX, HP_UX, Solaris...).
- Login and logout.
- Structure of a Unix command.
- Using and customizing the desktop.
- Unix directories and file systems.
- Users and groups, file permissions.
- Essential commands to manage files and directories.
- How to use the on-line documentation.

2) Managing files, using text editors

- Essential commands to manage files.
- Physical and symbolic links.
- Additional commands to manage files and directories.
- Displaying disk usage.
- The vi editor.

3) Understanding and using shell

- Filtering.
- Redirecting.
- Executing programs.
- Environment and processes.
- Expanding commands.
- Writing shell-scripts.
- User environment ". profile".
- Additional commands.

4) Using and building tools, communicating

- Using regular expressions.
- Example : grep and the regular expressions.
- Essential tools.
- Using pipes.
- Using pipes to build higher level tools.
- Additional tools.
- Mail.

5) Describing multitasking

- Background execution.
- Tools to manage background and foreground processes.
- Sending signals and killing processes.
- Answering signals.

6) Reading and modifying a shell script

- Shell variables.
- Language instructions (if, for, while, ...).
- The test command.
- Simple shell script examples.
- Modifying a shell script.
- Interactive instructions in shell.

7) Using Unix on a network

- Remote connection (telnet, rlogin).
- Transferring files (ftp, rcp).
- Remote program execution (rsh).
- Remote program execution in a secure environment (ssh).
- Understanding security issues.
- Describing network terms (TCP/IP, NFS, NIS, DNS...).