

Unix, systems and network administration



MR-131 5 Days (35 Hours)

Description

This course will allow you to administer and best operate a client-server site using a Unix environment from major market players (Solaris, HP/UX, Linux). It proposes to implement the main information sharing and centralized administration services currently available.

Who is this training for ?

For whom

Unix administrators and operators.

Prerequisites

Aucune

Training objectives

Training program

Introduction

- Daily administration tasks.
- Which forums for which versions of Unix? Make good use of the online help.

Principales phases d'exploitation d'un site

- Installation: installation types.
- Upgrade.
- How to troubleshoot installation problems.
- User Support .
- Disk management: partitioning, introduction to RAID levels.
- File systems (UFS, Ext3, JFS, etc.
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- Mounts: commands and files.
- Shutdown and restart: why and how to properly shut down a server? Startup, shutdown scripts, run levels.
- Management of users: commands for declaring accounts.
- Confidentiality in a Unix environment.
- Daily tools for the administrator: launching jobs.
- La crontab, at.
- The multi-platform unifying tool Webmin.
- Examples of use of proprietary graphics tools SMC (Solaris), SAM (HP/UX), linuxconf (Linux).
- Practical work Install, partition and manage disks, users.

Gestion des matériels et logiciels

- Installation of new software.
- Package management commands.
- Disks, CD-ROMs, backup interfaces.
- Declaration terminals and printers.
- Network cards.
- Practical work Package management.

Le réseau et les services TCP/IP

- Dialogue on a TCP/IP network.
- The inetd daemon, configuration files.
- Traffic analysis utilities (snoop, iptrace, tcpdump).
- Security on the network: the files implemented.
- Presentation of DHCP.
- Managing a lease.
- Practical work Configure the network, services, security.

Les services de nom et de résolution d'adresses

- Importance of name services.
- Introduction to DNS, LDAP, NIS.
- NIS commands and daemons (yp*).
- Presentation of the NIS.
- NIS domain, NIS bases (the MAPs).
- Master server.
- Being an NIS client.
- Interoperability with other name services.
- Practical work Using the name service.

Intégration des postes et serveur Windows

- Presentation of Samba.
- NFS.
- Access Unix files from Windows.
- Be part of the network neighborhood.
- Print to a printer connected to Windows.
- Print to a printer connected to Unix from Windows.