

# Course : Linux Red Hat, administration

*Practical course - 5d - 35h00 - Ref. LRD*  
**Price : 3080 CHF E.T.**

★★★★☆ 3,9 / 5

BEST

Acquire the knowledge you need to install and administer Linux Red Hat on a daily basis. You'll learn how to manage users, disks and peripherals, backups, network configuration and key services.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Installing and configuring a RedHat Linux server
- ✓ Perform routine administrative tasks
- ✓ Configuring network interfaces
- ✓ Optimizing Linux server performance

## Intended audience

Administrators, system engineers.

## Prerequisites

Basic knowledge of Linux and Unix systems.

## Practical details

### Hands-on work

The many progressive exercises and case studies will be carried out on a network of RedHat Linux servers.

## Course schedule

### PARTICIPANTS

Administrators, system engineers.

### PREREQUISITES

Basic knowledge of Linux and Unix systems.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## 1 Installation, X server and packages

- What's new in Red Hat Enterprise Linux 7 and 8.
- Type of installation. Typical problems and solutions.
- Patches and updates. Subscribe to Red Hat Network.
- Compiling and installing source or binary packages. Use of Yum.
- Setting up Xorg.
- The different office managers.

### Hands-on work

Install and configure Linux Red Hat.

## 2 Standard administration

- User and group management.
- Shadowutils: commands and user account configuration files, /etc/skel/\* templates. Role of NSS, PAM.
- Tree backup tools, block-by-block, synchronization.
- Startup: boot, grub, kernel. Init/Upstart.
- Startup scripts, customization. Service management.
- Login. System shutdown.

### Hands-on work

Manage startup, users and groups.

## 3 Managing disks and other peripherals

- Disk types and partitioning. USB storage media. RAID and LVM and other types.
- Primary and secondary swap.
- File systems. Formatting, tuning and maintenance.
- Mounting: mount, automount and /etc/fstab file.
- Device management. Modules. Special files, from mknod to Udev.

### Hands-on work

Disk management.

## 4 Core, performance and tuning

- Modify or build a new core?
- What's new in Kernel 3.x. Compilation and installation procedure.
- Performance management.
- Resources to monitor. Disk space and quota management. Monitoring tools.
- Traces. System audit.
- Trace acquisition and centralization.

### Hands-on work

Manage performance. Use standard analysis tools.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

## 5 Integration into the existing network

- Configure network interfaces under Linux.
- Client configuration : IP and name resolution.
- Network security.
- The Xinetd super-server.
- NetFilter and iptables: packet filtering.

### Hands-on work

Configure network interfaces under Linux.

## 6 Network services presentation

- Apache HTTP Server. Architecture. Getting started.
- Samba file server. Installation and startup. Resource sharing with Windows.

## Dates and locations

### REMOTE CLASS

2026 : 16 Mar., 18 May, 27 July, 5 Oct., 23 Nov.