

Training: Red Hat  
RH401 Red Hat Enterprise Deployment, Virtualization, and Systems  
Management



FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	2550 EUR	4 days
Traditional	CTAB Tablet	2650 EUR	4 days

## LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

## TRAINING GOALS:

**Red Hat Enterprise Deployment, Virtualization, and Systems Management (RH401)** is a 4-day lab-based course that explores the concepts and methods necessary for successful large-scale deployment and management of Red Hat Enterprise Linux® systems.

Experienced system administrators will learn how to implement and manage Red Hat Enterprise Linux deployments efficiently and effectively, in ways that make their systems manageable by a team of administrators. Central to the course is the training on the use of the Red Hat Network Satellite Server for deployment and provisioning of Red Hat Enterprise Linux systems. By the end of this course, you will have built your own RPM packages and will have used Subversion to make changes to scripts.

## CONSPECT:

- Essential system management
  - Goals of enterprise system management
  - Standardization, centralization, and scalability
  - Provisioning and automation
- Installing a Red Hat Network Satellite server
  - Introduction to Red Hat® Network Satellite: features, prerequisites
  - Installing Satellite server software
  - Understanding software channels and entitlements
  - Importing channel content into a Satellite server
- Red Hat Network organization
  - Organization management and trust relationships
  - Managing user accounts

- Assigning user roles (security)
- Managing system groups
- Managing changes with revision control
  - Introducing revision control concepts
  - Basic Subversion repository administration
  - Using Subversion to manage revisions
- Red Hat Network client configuration
  - Secure communication with SSL
  - Red Hat Network registration
  - Creating and using activation keys
  - Registration automation with bootstrap.sh
  - Troubleshooting RHN registration
- Red Hat Network software management
  - Software channel relationships
  - Cloning existing software channels
  - Managing custom software channels
  - Notifying clients of changes: managing errata
- Building RPMs
  - Building open source software
  - Using RPM macros
  - Writing custom spec files
  - Using rpmbuild to create RPMs
  - Signing packages for security
- RHN application programmer interface
  - Uses for Red Hat Network API
  - Basic RHN API program structure
  - Sample programs
- Configuration file management with Red Hat Network
  - Managing configuration channels
  - Configuration file macros
  - Configuration file management using command-line tools
- Provisioning with kickstart
  - Anaconda kickstart options
  - Building a provisioning environment
  - Using Cobbler for provisioning
- Virtual machine management

- Virtual host/virtual platform entitlements
- Controlling Xen guests using RHN
- Red Hat Network management of Xen virtual machines
- RHN Satellite server administration
  - High-availability options
  - Embedded database management
  - Certificate management
  - Changing from disconnected to connected operation
  - Inter-satellite synchronization (ISS)
  - Exporting software channels
  - Troubleshooting
- Red Hat Network Proxy Server
  - RHN Proxy Server installation
  - Configuring a client to use an RHN Proxy Server
  - Managing software with RHN package manager

## REQUIREMENTS:

[RHCE certification](#) or equivalent experience

If you have not earned **RHCE certification**, you can confirm whether you have the correct skill-set knowledge by passing [the online skills assessment](#).

## Difficulty level



## CERTIFICATE:

Participants will obtain certificates signed by Red Hat.

## TRAINER:

Red Hat Certified Instructor.