Global Horizon
TRAINING CENTER

Training Course:
Red Hat Enterprise Linux - Management & Administration

17 - 21 November 2024
Dubai (UAE)
Residence Inn by Marriott Sheikh Zayed Road, Dubai

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Training Course code: IT234916 From: 17 - 21 November 2024 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 4565 Euro

Introduction

Red Hat Enterprise Linux - Management & Administration equips you with Linux® administration "survival skills" by focusing on foundational Linux concepts and core tasks. You will learn how to apply command-line concepts and enterprise-level tools, starting you on your journey toward becoming a full-time Linux system administrator.

Training Objectives

- Introduction to the command line
- Managing physical storage
- Install and configure software components and services
- Establish network connections and control firewall restrictions
- Monitor and manage running processes
- Manage and secure files and file systems
- Administer users and groups
- Review the system log files and journal for issues
- Troubleshoot problems and analyze systems with Red Hat Insights
- Remotely manage systems with SSH and the Web Console

Target Audience

This course is geared toward Windows system administrators, network administrators, and other system administrators who are interested in supplementing current skills or backstopping other team members, in addition to Linux system administrators who are responsible for these tasks:

- Configuring, installing, upgrading, and maintaining Linux systems using established standards and procedures
- Providing operational support
- Managing systems for monitoring system performance and availability
- Writing and deploying scripts for task automation and system administration

Prerequisites

Basic technical user skills with computer applications on some operating systems are expected.

Training Outlines

Get Started with RHEL 8 / Access the Command Line

- Graphical login
- Non-graphical login
- Virtual consoles
- Unix / Linux standards
- BASH environment
- BASH command line format
- Aliases defining and using
- RHEL 8 system messages
- Editing shell command lines
- Keyboard control characters

Configure and Secure SSH - Part 1

- command line operations - local host
- command line operations - remote host

Get Help in RHEL 8

- RHEL 8 help information
- BASH command help information
- RHEL 8 package help information
- RHEL 8 online documentation
- Linux graphical help information

Access Linux Filesystems

- Complete file specification
- Default parts of file specifications
- Directory specifications
- File specification
- File characteristics information
- Locating files and directories

Manage Files from the Command Line

- Basic file manipulation commands
- More file manipulation commands
- Defining and using hard links
- Defining and using symbolic links
- Redirection of input, output, and error information
- Pipelines

Archive and Transfer Files

- tar
- gzip and gunzip
- remote file operations - wget utility
- remote file operations - ssh utilities
- rsync
- vsftpd package
- managing vsftpd

Control Access to Files

- Protecting files chmod, umask
- Special file attributes chattr, lsattr

Create, View, and Edit Text Files

- File manipulation commands
- Redirecting standard output
- Vim editor introduction
- Gedit editor introduction
- Nano editor introduction

Monitor and Manage Linux Processes

- User working environment
- User process characteristics
- Displaying process information static - ps
- Displaying process information dynamic - top
- Controlling process execution
- Adjusting process priority
- Process monitoring tools
- Cache management
- Process affinity

Install Red Hat Enterprise Linux 8

- Installing RHEL 8 system software
- RHEL 8 directed installation
- RHEL 8 directed installation - first boot

Analyze Servers and Get Support

- RHEL 8 administrative software
- cockpit
- RHEL 8 web-based portal

Install and Update Software

- Managing RHEL 8 software packages
- rpm command usage
- dnf / yum command usage
- Legacy non-streamed package repository setup
- Streamed AppStreampackage repository setup
- Apache web server configuration

Manage Local Linux Users and Groups

- user account management
- /etc/passwd file
- /etc/group file
- user account creation

- environment files
- password aging
- PAM
- account deletion
- RHEL 8 administrator responsibilities
- using the root account

Configure and Secure Open SSH Service - Part 2

- command line operations - remote host - ssh
- Manage Networking
- network configuration
- host configuration
- gateway configuration
- maintaining system time via an ntp server
- maintaining system time via chrony
- time zone manipulation

Control Services and Daemons

- RHEL 8 startup configuration
- systemd target files
- systemd services
- systemd actions
- systemd startup services
- boot logging
- systemd journal logging

Analyze and Store Logs

- system logging mechanism
- kernel message logging
- system logging configuration
- remote system logging
- logrotate

Registration form on the Training Course:
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