

# Red Hat Enterprise Performance Tuning

## Overview

### Performance tuning and capacity planning for Red Hat Enterprise Linux

**Red Hat Enterprise Performance Tuning teaches senior Linux system administrators about performance tuning for Red Hat Enterprise Linux.**

#### Course Overview

This course discusses system architecture with emphasis on:

- Understanding the implications on system performance
- Methods for testing the effects of performance adjustments
- Open source benchmarking utilities
- Methods for analyzing system and networking performance
- Tuning configurations for specific application loads

This course can also help you prepare for the Red Hat Certificate of Expertise in Performance Tuning exam (EX442).

## Audience

Experienced Linux system administrators responsible for maximizing resource utilization through performance tuning and an RHCE interested in earning a Red Hat Certification of Expertise, or a Red Hat Certified Datacenter Specialist (RHCDs) or Red Hat Certified Architect (RHCA) credential.

## Skills Gained

- **Introduction to performance tuning**
- Understand the basic principles of performance tuning and analysis

**Collecting, graphing, and interpreting data** Gain proficiency in using basic analysis tools and in evaluating data

**General tuning** Learn basic tuning theory and mechanisms used to tune the system

**Hardware profiling** Understanding and analyzing hardware

**Software profiling** Analyze CPU and memory performance of applications

**Mail server tuning** Learn about basic storage tuning using an email server as an example

**Large memory workload tuning** Understand memory management and tuning

**HPC workload tuning** Understand tuning for CPU-bound applications

**File server tuning** Understand storage and network tuning in the context of a file server application

**Database server tuning** Tuning memory and network performance using a database application as an example

**Power usage tuning** Tuning systems with power consumption in mind

**Virtualization Tuning** Tuning 'host' and 'guest' for efficient virtualization

## Prerequisites

- Red Hat Certified Engineer (RHCE) certification or equivalent experience
- For candidates that have not earned their RHCE, confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at [www.redhat.com/training/skills\\_assessment/](http://www.redhat.com/training/skills_assessment/)

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### HPC workload tuning

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- Understand storage and network tuning in the context of a file server application.

### Database server tuning

- Tune memory and network performance using a database application as an example.

### Power usage tuning

- Tune systems with power consumption in mind.

### Virtualization tuning

- Tune 'host' and 'guest' for efficient virtualization.

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CourseMonster - Preston Park House, South Road, Brighton BN1 6SB  
Telephone: 0800 40 848 40 | E-mail: [info@coursemonster.com](mailto:info@coursemonster.com)