

RH443 Red Hat Enterprise Performance Tuning with Exam

Introduction

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

Overview

This course discusses system architecture with an 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). This version of the course includes the exam.

Outcomes

- Tuning for use-case scenarios (for example, HPC, large memory, database, and file server)
- Applying tuning profiles with tuned
- Tuning virtual machines (primarily guest, but host is discussed)
- Tuning memory and caches
- Tuning CPU and memory utilization using cgroups (integrated in systemd)
- Gathering performance metrics and other data for tuning purposes



Audience

Senior Linux system administrators responsible for maximizing resource utilization through performance tuning.

Prerequisites

- Red Hat Certified Engineer (RHCE) certification or equivalent experience.

Course Details

Course code: RH443

Duration: 5 days

Starting time: 9.00 am

Finishing time: 5.00 pm

Booking guidelines

Contact our Learning Consultants on 1300 86 87246 and we will assist you with your booking.

 **1300 86 87246**

1300 TO TRAIN

Course Outline



Introduction to performance tuning

Understand the basic principles of performance tuning and analysis.

Collecting, graphing, and interpreting data

Gain proficiency using basic analysis tools and evaluating data.

General tuning

Learn basic tuning theory and mechanisms used to tune the system.

Limiting resource usage

Allocate resources for best performance by limiting resource usage.

Hardware profiling

Understand and analyze hardware.

Software profiling

Analyze CPU and memory performance of applications.

Using SystemTap

Use systemtap for profiling software.

Small file tuning

Tune a server for a workload involving frequent reads and writes of small files.

Large memory workload tuning

Understand memory management and tuning.

Tuning for a CPU-intensive workload

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

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.

Red Hat Performance Tuning Comprehensive Review

Do a comprehensive overview of the course.

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact a training specialist.