
Red Hat Enterprise Performance Tuning

Duration: 0 Days **Course Code: RH442** **Delivery Method: e-Learning**

Overview:

Red Hat® Enterprise Performance Tuning teaches senior Linux® system administrators about performance tuning for [Red Hat Enterprise Linux](#).

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

Duration: 90 days

Target Audience:

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

Objectives:

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

- Red Hat Certified Engineer (RHCE®) certification or equivalent experience
 - Candidates who have not earned their RHCE can confirm they have the correct skills by passing our online skills assessment
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Content:

Introduction to performance tuning	Software profiling	Understand storage and network tuning in the context of a file server application.
Understand the basic principles of performance tuning and analysis.	Analyze CPU and memory performance of applications.	Database server tuning
Collecting, graphing, and interpreting data	Small file tuning	Tune memory and network performance using a database application as an example.
Gain proficiency using basic analysis tools and evaluating data.	Tune a server for a workload involving frequent reads and writes of small files.	Power usage tuning
General tuning	Large memory workload tuning	Tune systems with power consumption in mind.
Learn basic tuning theory and mechanisms used to tune the system.	Understand memory management and tuning.	Virtualization tuning
Limiting resource usage	Tuning for a CPU-intensive workload	Tune 'host' and 'guest' for efficient virtualization.
Hardware profiling	Understand tuning for CPU-bound applications.	Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves.
Understand and analyze hardware.	File server tuning	

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/