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Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud with Exam

Duration: 5 Days Course Code: RH443

Overview:

Red Hat® Enterprise Performance Tuning is designed to teach senior Linux® system administrators the methodology of performance tuning for Red Hat Enterprise Linux. This course discusses system architecture with an emphasis on understanding the implications of system architecture on system performance, methods for testing the effects of performance adjustments, open source benchmarking utilities, methods for analyzing system and networking performance, and tuning configurations for specific application loads.

This course includes and prepares a Red Hat Certified Engineer (RHCE®) for the Red Hat Enterprise Directory Services and Authentication Expertise Exam (EX423).

Target Audience:

Experienced Linux system administrators responsible for maximizing resource utilization through performance tuning An RHCE interested in earning a Red Hat Certification of Expertise or a Red Hat Certified Architect (RHCA) credential

Objectives:

- Tuning for use-case scenarios (for example, HPC, large memory, database, file server, and so on)
- Tuning for power consumption
- Tuning virtual machines (host and guest)

- Tuning memory and caches
- Tuning CPU and memory utilization using cgroups
- Gathering performance metrics and other data for tuning purposes

Prerequisites:

RHCE certification or equivalent experience

Testing and Certification

Red Hat Enterprise System Monitoring and Performance Tuning Expertise Exam (EX442) Hands-on, performance-based, 4-hour exam. This course prepares you for these credentials:

- Red Hat Certified Architect RHCA
- Certificates of Expertise

Follow-on-Courses:

RHS429, Red Hat Enterprise SELinux Policy Administration

Content:

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

Understand and analyze 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

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

Power usage tuning

Tune systems with power consumption in

Virtualization tuning

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

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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