TRAINING OFFERING

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Redhat Enterprise Performance Tuning

CODE:	DURÉE:	PRIX H.T.:
REH_442	40 Hours (5 Jours)	€3,240.00

Description

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

Objectifs

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).

Course content summary

- 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

Training Development

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
Hardware profiling
    Understand and analyze hardware.
Software profiling
    Analyze CPU and memory performance of applications.
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.

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves.

Prérequis

- 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

Options

Red Hat Certificate of Expertise in Performance Tuning exam (EX442)
Tests candidates' ability to use standard system tools to analyze the performance of Red Hat Enterprise Linux and applications running on it and to modify the behavior of the system and applications to improve system performance.

This course prepares you for these credentials

Red Hat Certified Architect — RHCA®
RHCA certification represents a depth of knowledge in Red Hat Enterprise Linux and breadth of knowledge across other Red Hat technologies.

Certificates of Expertise
Certificates of Expertise are incremental credentials attached to an RHCE certification that demonstrate skills and knowledge in specialized areas.

Dates de session

Sur demande. Merci de nous contacter

Informations
Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.