CLOUD TECHNOLOGY TRAINING PROVIDER
EDUCATE. INNOVATE. OPTIMIZE.

Red Hat Enterprise Performance Tuning with Exam (RH 443)

COURSE 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 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

WHO WILL BENEFIT FROM THIS COURSE?

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

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.

COURSE OBJECTIVES:

- 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

COURSE OUTLINE:

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 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.



SUNSET LEARNING INSTITUTE

CLOUD TECHNOLOGY TRAINING PROVIDER
EDUCATE. INNOVATE. OPTIMIZE.

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.

SUNSET LEARNING INSTITUTE (SLI) DIFFERENTIATORS:

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their cloud technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

 The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

- You have the option to attend classes at any of our established training facilities or from the convenience of your home or office with the use of our HD-ILT network (High Definition Instructor Led Training)
- All Sunset Learning Institute classes are guaranteed to run you can count on us to deliver the training you need when you need it!

Outstanding Customer Service

- Dedicated account manager to suggest the optimal learning path for you and your team
- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience