Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442)

Category: Networking & Security | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course 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.

About This Course

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.

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

Become a Red Hat Certified Engineer (RHCE®), or demonstrate equivalent experience

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Analyze and tune for resource-specific scenarios Applying tuning profiles with the tuned tool Tune in virtual environments (hosts and guests) Trace and profile system events and activities Tune resource limits and utilization using systemd-integrated cgroups Gather performance metrics and benchmarking data

Detailed Course Outline

1 - Introduction to performance tuning

- Understand the basic principles of performance tuning and analysis.

2 - Collecting, graphing, and interpreting data

- Gain proficiency in using basic analysis tools and in evaluating data.

3 - General tuning

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

4 - Hardware profiling

- Understand and analyze hardware.

5 - Software profiling

- Analyze CPU and memory performance of applications.

6 - Mail server tuning

- Learn about basic storage tuning using an email server as an example.

7 - Large memory workload tuning

- Understand memory management and tuning.

8 - HPC workload tuning

- HPC workload tuning

9 - File server tuning

- Understand storage and network tuning in the context of a file server application.

10 - Database server tuning

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

11 - Power usage tuning

- Tune systems with power consumption in mind.

12 - Virtualization tuning

- Tune host and guest for efficient virtualization.

Additional Course Details

Nexus Humans Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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