Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud - Red Hat Learning Subscription Course (RH442LS)

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
Related Exam:	Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud; Red Hat; RH442

Course Overview

Performance tuning and capacity planning for Red Hat Enterprise Linux Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) teaches senior Linux® system administrators the methodology of performance tuning. This course discusses system architecture with an emphasis on understanding its implications on system performance, performance adjustments, open source benchmarking utilities, networking performance, and tuning configurations for specific server use cases and workloads. This course is based on Red Hat® Enterprise Linux 8.RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

About This Course

Performance tuning and capacity planning for Red Hat Enterprise Linux Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH442) teaches senior Linux® system administrators the methodology of performance tuning. This course discusses system architecture with an emphasis on understanding its implications on system performance, performance adjustments, open source benchmarking utilities, networking performance, and tuning configurations for specific server use cases and workloads. This course is based on Red Hat® Enterprise Linux 8.RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

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 - Introduce performance tuning

- Describe performance tuning concepts and goals.

2 - Select performance monitoring tools

- Evaluate the large selection of performance monitoring tools that are included with Red Hat Enterprise Linux.

3 - View hardware resources

- View and interpret hardware resource listings.

4 - Configure kernel tunables and tuned profiles

- Configure the operating system to tune for different workload requirements.

5 - Manage resource limits with control groups

- Manage resource contention and set limits for resource use on services, applications, and users using cgroup configuration.

6 - Analyze performance using system tracing tools

- Diagnose system and application behaviors using a variety of resource-specific tracing tools.

7 - Tune CPU utilization

- Manage CPU resource sharing and scheduling to control utilization.

8 - Tune memory utilization

- Manage settings for efficient memory utilization for different types of workloads.

9 - Tune storage device I/O

- Manage settings for efficient disk utilization in various use cases.

10 - Tune file system utilization

- Manage application efficiency for file system utilization.

11 - Tune network utilization

- Manage application efficiency for network utilization.

12 - Tune in virtualization environments

- Distinguish the requirements for tuning in virtualized environments.

13 - Perform comprehensive review

- Demonstrate skills learned in this course by observing system performance using the appropriate tools, evaluating system metrics, and configuring settings to improve performance.

Frequently Asked Questions

Q: What delivery options are available for Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud - Red Hat Learning Subscription Course (RH442LS)?

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: Which exam does this course prepare me for?

This course prepares you for the Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud; Red Hat; RH442 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud - Red Hat Learning Subscription Course (RH442LS) 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 - Red Hat Learning Subscription Course (RH442LS) 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 - Red Hat Learning Subscription Course (RH442LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud - Red Hat Learning Subscription Course (RH442LS). 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 - Red Hat Learning Subscription Course (RH442LS)?

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 - Red Hat Learning Subscription Course (RH442LS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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