

Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud with Exam (EX442) (RH443)

ID RH443 Preis 3.681,- € (exkl. MwSt.) Dauer 5 Tage

Kursüberblick

Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud with exam (RH443) teaches and validates skills related to the methodology of performance tuning for senior Linux® system administrators. This offering 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.

Note on the exam:

Cancelations of the purchase: Cancellation of individual exam sessions is not allowed. Exam session fees are nonrefundable. Non-Cancelable components: No part of any Bundles that includes both non-cancelable and cancelable components may be canceled.

Zielgruppe

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

Voraussetzungen

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

Kursziele

Impact on the organization

This course is intended to develop the skills needed to improve infrastructure performance, increase system utilization, reduce downtime, and improve responsiveness to system failures.

Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

As a result of attending this course, you should be able to obtain, analyze, and interpret system performance metrics, then use these metrics to help increase cost effectiveness, maximize application performance, and make better decisions about investment in hardware or cloud resources.

Kursinhalt

- 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

Detaillierter Kursinhalt

Introduce performance tuning

Describe performance tuning concepts and goals.

Select performance monitoring tools

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

View hardware resources

View and interpret hardware resource listings.

Configure kernel tunables and tuned profiles

Configure the operating system to tune for different workload requirements.

Manage resource limits with control groups

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

Analyze performance using system tracing tools

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

Tune CPU utilization

Manage CPU resource sharing and scheduling to control utilization.

Tune memory utilization

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

Tune storage device I/O

Manage settings for efficient disk utilization in various use cases.

Tune file system utilization

Manage application efficiency for file system utilization.

Tune network utilization

Manage application efficiency for network utilization.

Tune in virtualization environments

Distinguish the requirements for tuning in virtualized environments.

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.

Über Fast Lane



Die weltweite Fast Lane-Gruppe ist Spezialist für Technologie- und Business-Training und Beratung im Highend-Bereich. Fast Lane ist autorisierter Trainingspartner führender Hersteller und bietet zudem eigene IT-Trainingsprogramme zu aktuellen Technologien und den wesentlichen Trends an. Herstellerübergreifende Beratungsleistungen reichen von vorbereitenden Analysen und Evaluierungen über die Konzipierung zukunftsweisender IT-Lösungen bis zum Projektmanagement und zur Umsetzung der Konzepte im Unternehmen. Training-on-the-Job und Weiterqualifizierung der zuständigen Spezialisten bei den Kunden verbinden die Kernbereiche der Fast Lane Dienstleistungen Training und Consulting.

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Trainingsmethoden

- ✓ Klassenraumtraining
- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Klassenraum und ILO kombiniert
- ✓ Onsite & Customized Training
- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobiles Lernen

Technologien und Lösungen

- ✓ Digitale Transformation
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- ✓ Cloud
- ✓ Networking
- ✓ Cyber Security
- ✓ Wireless & Mobility
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