



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

LENGTH

4 days

PRICE (Incl. GST)

\$5236

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WHY STUDY THIS COURSE

This course 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.

WHAT YOU'LL LEARN

As a result of attending this course, students should be able to obtain, analyse, and interpret system performance metrics, which the business can use to increase cost effectiveness, maximise application performance, and make better decisions about investment in hardware or cloud resources.

Students should be able to demonstrate the following skills:

- › Analyse 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 utilisation using systemd-integrated cgroups
- › Gather performance metrics and benchmarking data

<https://www.lumifywork.com/en-au/courses/rh442-red-hat-enterprise-performance-tuning/>



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My instructor was great being able to put scenarios into real world instances that related to my specific situation.

I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.

Great job Lumify Work team.

AMANDA NICOL
IT SUPPORT SERVICES
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LIMITED

COURSE SUBJECTS

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.

Analyse performance using system tracing tools

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

Tune CPU utilisation

Manage CPU resource sharing and scheduling to control utilisation.

Tune memory utilisation

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

Tune storage device I/O

Manage settings for efficient disk utilisation in various use cases.

Tune file system utilisation

Manage application efficiency for file system utilisation.

Tune network utilisation

Manage application efficiency for network utilisation.

Tune in virtualisation environments

Distinguish the requirements for tuning in virtualised environments.

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IT INFRASTRUCTURE AND NETWORKS

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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.

Lumify Work Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.

For more information, please contact us on [1 800 853 276](tel:1800853276).

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WHO IS THE COURSE FOR?

Senior Linux system administrators responsible for maximising resource utilisation through performance tuning.

PREREQUISITES

- [Red Hat Certified Engineer \(RHCE\)](#) certification or equivalent experience

For candidates who have not earned their RHCE, confirmation of the correct skill set knowledge can be obtained by passing the [online skills assessment](#).

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

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