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

**Duración: 4 Días** **Código del Curso: RH442** **Método de Impartición: Curso Remoto (Virtual)**

## Temario:

**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 is intended to develop the skills needed to improve infrastructure performance, increase system utilization, reduce downtime, and improve responsiveness to system failures.
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.
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.
This course is based on Red Hat® Enterprise Linux 8.
***Note:*** *Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.*
When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.
Your RHLS subscription includes:
• One live, instructor-led virtual session
• 12 months of self-paced learning access
• One certification exam with a free retake
*Onsite Classroom-based sessions and closed course options remain unchanged.*
*Updated Jan2026*

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

## Dirigido a:

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

## Objetivos:

- After this course participants should 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

## Prerequisitos:

- RHCE certification or equivalent experience is expected
Take Red Hat free assessment to gauge whether this offering is the best fit for your skills Red Hat Skills Assessment

## Exámenes y certificación

- Red Hat Certified Specialist in Linux Performance Tuning exam (EX442)

## Siguientes cursos recomendados:

None

## Contenido:

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.

## Información Adicional:

Official course book provided to participants

## Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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