



## **RH442: Red Hat Enterprise Performance Tuning**

### *Outline for this course:*

#### **Introduction to performance tuning**

- Understand the basic principles of performance tuning and analysis.

#### **Collecting, graphing, and interpreting data**

- Gain proficiency using basic analysis tools and evaluating data.

#### **General tuning**

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

#### **Limiting resource usage**

- Allocate resources for best performance by limiting resource usage.

#### **Hardware profiling**

- Understand and analyze hardware.

#### **Software profiling**

- Analyze CPU and memory performance of applications.

#### **Using SystemTap**

- Use systemtap for profiling software.

#### **Small file tuning**

- Tune a server for a workload involving frequent reads and writes of small files.

#### **Large memory workload tuning**

- Understand memory management and tuning.

#### **Tuning for a CPU-intensive workload**

- Understand tuning for CPU-bound applications.

#### **File server tuning**

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

#### **Database server tuning**

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

#### **Power usage tuning**

- Tune systems with power consumption in mind.

#### **Virtualization tuning**

- Tune 'host' and 'guest' for efficient virtualization.

#### **Red Hat Performance Tuning Comprehensive Review**

- Do a comprehensive overview of the course.