Training: Accelerating Java Applications

Content of the training

In the jPinpoint *Accelerating Java applications* training you learn to structurally improve the speed of Java applications. The training is aimed at finding, removing and preventing of speed limitations in these applications.

Duration

3 days, from 9:00 until 17:00 with lunch.

Instructor

Jeroen Borgers, Java performance consultant.

Audience

This training is aimed at experienced Java developers, hands-on architects, performance testers and technical operators. Java programming experience is an advantage but not required. Contact us for self study preparation in case you are not able to program in Java.

Training setup

In this intensive training we combine about 50% theory with 50% hands-on to apply the learned theory immediately and experience how the performance of Java applications can be analyzed and improved.

What will I learn?

You will learn to:

- recognize the most common Java performance problems;
- deal with performance requirements, measurements and the subjective experience;
- put performance in agile, devOps, microservices and architecture context;
- monitor and tune the JVM, heap and garbage collection;
- profile applications with several tools to pinpoint performance issues;
- how to solve most occurring problems with advanced tools.

How to subscribe?

To subscribe, see the web page: http://www.jpinpoint.com/training-accelerate.html Cost: 1900 euro excluding VAT. This includes the book "Java Performance: The Definitive Guide" by Scott Oaks. Location: in central Netherlands.

Prerequisites

You should be comfortable with Java 7/8 code. You need to bring along a laptop with a minimum of 4 GB internal memory, VirtualBox, JDK 8 and preferably an IDE installed.

This training will be in Dutch, or in English on request.

Training: Accelerating Java applications

Detailed content

Day 1: Overview of performance

- Definition of performance
- Most common problems
- Agile performance requirements
- Time measurements
- Subjective performance
- Performance testing
- Architecture, SOA and performance
- Performance on OS level

Day 2: Monitoring and garbage collection

- Database and I/O interaction
- JVM level monitoring
- Application server monitoring
- Application monitoring
- JVM memory management
- Garbage collection strategies
- GC logs visualization
- Tuning heap and GC

Day 3: Performance tuning

- Time/CPU profiling
- Thread profiling
- Memory profiling
- Getting results quickly
- Advanced analysis tools
- Object retention
- Solving memory problems