

AGENDA

Java 17 Training: Records, Sealed Classes & All New Features Since Java 11

2 days · Individual date · On-site or online · German / English · Customizable agenda · Certificate of completion

We won't follow the listed order strictly. Instead, we'll alternate between major features, smaller topics, and theory – keeping the course engaging and balanced, and helping you better retain the material.

Major Features:

- switch Expressions
- Text Blocks
- Records
- Pattern Matching for instanceof
- Sealed Classes
- Strongly Encapsulate JDK Internals

Additional Enhancements:

- Helpful NullPointerExceptions
- Hidden Classes
- Warnings for value-based classes
- Context-specific deserialization filters

API Improvements:

- New String methods
- New Stream methods
- New Files methods
- New ByteBuffer methods
- The Teeing collector
- Hex formatting and parsing utility

Garbage Collection:

- Improvements to G1 and Parallel GC
- New: ZGC and Shenandoah
- Elastic Metaspace

Performance:

- Default and dynamic CDS archives
- Non-volatile mapped byte buffers
- Specialized TreeMap implementations
- Decoupling of Compressed Oops and Compressed Class Pointers

Tools:

- JFR event streaming
- Packaging tool

Deprecations:

- Thread suspend(), resume()
- ThreadGroup stop(), destroy(), isDestroyed(), setDaemon(), and isDaemon()
- Biased locking
- And more...

Looking Ahead:

- Pattern Matching for switch
- Foreign Function & Memory API
- Vector API