

Adam Retter

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What is Tomcat?

- Java Web Application Server, written in Java*
- Top-level Apache project, implies high quality, wide use and rigorous testing
- We are looking at Tomcat 6 in this course.
 - Tomcat 7 is a simple upgrade, improved security, memory leak protection, etc.
- Open Source (Apache Licence v2) implementation -
 - Java Servlet Specification 2.5 (3.0)
 - JSP (Java Server Pages) 2.1 (2.2)
- Tomcat consists of -
 - Catalina – The Servlet engine
 - Coyote – The HTTP connector engine, forwards requests to Catalina
 - Jasper – The JSP engine, compiles JSP into Servlets for Catalina
- Other products are available – Jetty, Spring tc Server

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What is Tomcat?

- Tomcat is *not* full Java EE (Java Platform, Enterprise Edition)
- Java EE is a large collection of standards and API's -

“The Java EE platform provides an API runtime environment for developing and running large-scale, multi-tiered, scalable, reliable, and secure network applications.”

- Java EE (especially EJB) often perceived as overly complex, prompted responses such as Spring, NetKernel
- Tomcat is *just* Servlets and JSP (from Java EE)
- Many J2EE technologies e.g. Facelets, JAX-WS, JAW-RS, JPA can be used in Tomcat with appropriate libraries e.g. PrimeFaces, Jersey, Apache CXF, Hibernate
- Java EE servers – e.g. GlassFish, JBoss, Resin, WebLogic, WebSphere, Geronimo

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- * Native Libraries available for performance
<http://tomcat.apache.org/tomcat-6.0-doc/apr.html>
- Java Servlet Specification 3.0 in 7.0
- JSP (Java Server Pages) 2.2 in 7.0
- Jetty – light weight, advanced, good for embedding
- Spring tc Server (now VMWare vFabric tc Server) is a commercial version, free developer version – Insight console for complex application performance reporting

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- WebLogic used to be owned by BAE Systems!
- Apache Geronimo is a full J2EE 5 server, uses Tomcat as its Servlet/JSP engine
- EJB – Enterprise Java Beans, possibly sparked the POJO movement
- <http://java.dzone.com/news/jee-wars-are-over-and-spring-h>