

Specialized - Apache TomCat 8 Administration

Code:	TTC9250
Length:	4 days
URL:	View Online

Apache TomCat 8 Administration is a hands-on TomCat Administration course geared for students who need to learn how to install and configure Apache Tomcat 8, as well as learn the key mechanisms of installing and administering Web Applications. This course emphasizes altering key configuration artifacts for optimum performance, availability, and fault tolerance. The course also explores integration with existing security mechanisms and databases, as well as high-performance scalability, clustering, and fault-tolerant fail-over techniques.

Skills Gained

Upon completion of the Apache Tomcat Administration course, you will be able to:

- Explain how Tomcat relates to Java EE (JEE) and compares to other application servers (e.g. JBoss)
- Install and setup Tomcat on both Windows and UNIX-type environments
- Deploy, support, and troubleshoot applications on Tomcat
- Navigate Tomcat's directory structure
- Understand Tomcat architecture and configuration files: server.xml, context.xml, .properties, etc.
- Understand web application structure and configuration: web.xml
- Secure Tomcat and applications running on it
- Set up Tomcat for SSL
- Tune Tomcat's performance
- Explore different load-balancing and high-availability strategies with Tomcat, including server affinity through sticky sessions as well as session replication via Tomcat

Who Can Benefit

This is an introductory-intermediate level course, designed for web server administrators who need to install, configure, and run Apache TomCat web server.

Prerequisites

Student should be familiar with the basic principles of web/application server administration. Prior Java or JEE experience would also be helpful for the Java portions of the course.

Course Details

Session -Apache Tomcat and JEE Overview

- Web Technology Architectural Overview
- Servlets 3.1
- JSP 2.3

- WebSockets 1.1
- Expression Language 3.0
- Tomcat Background
- Other components in the ecosystem

Session-Administering Apache Tomcat

- Apache and Tomcat
- Installing Tomcat
- Directory Structure

Session-Configuration Files

- Anatomy of a Web App
- Deploying Web Apps
- Tomcat Manager
- Connection Pooling and Database Mappings
- Tomcat Security and LDAP Integration

Session-Performance

- Capacity Planning
- Garbage Collection and Tuning Overview
- Deploying and Configuring Web Applications
- Advanced Performance - Tomcat Native and APR
- Load Testing with Apache JMeter [Optional]

Session-Clustering

- Clustering Tomcat
- Connectors (JCA) [Optional]
- Integrating with Apache HttpD and Mod-Cluster
- Shared Hosting [Optional]