Apache Tomcat Administration

Duration: 3 Days   Course Code: TOMC   Delivery Method: Virtual Learning

Overview:

This Apache Tomcat Administration course teaches the core skills needed to install and manage the Tomcat Web Container up to version 9. As well as configuring the Tomcat Web Container,this hands-on course shows delegates how to deploy and monitor Java Enterprise Edition web applications. Delegates will also configure Tomcat to work with the Apache Web Server and third-party databases. We will also investigate troubleshooting,tuning and logging,as well as high availability concepts such as clustering and load balancing.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This Apache Tomcat Administration course is aimed at application server administrators. It may also benefit developers and system administrators who require a greater understanding of deployment and administration with Tomcat.

Objectives:

■ To provide the skills necessary to install,configure,manage,deploy applications to and understand the core aspects of Apache Tomcat.

Prerequisites:

Good operating system knowledge similar to the level covered on our Linux Introduction course or an equivalent Windows course is required. Whilst no prior knowledge of WebLogic is required,delegates should be from a relevant technical background.   Some awareness of internet architectures and protocols is assumed.

Follow-on-Courses:
■ Apache Web Server (APH)
■ Developing Applications with Java EE (JEE)

Content:

Apache Tomcat Administration Training Course
Course Contents - DAY 1

Course Introduction

- Administration and Course Materials

Session 1: INTRODUCING TOMCAT

- Apache and Tomcat
- Application Servers and Web Containers
- Tomcat Component Tour
- Versions History and Capabilities

Session 2: JAVA ENTERPRISE EDITION ARCHITECTURE

- Java Enterprise Edition (JEE) Applications
- Servlets and JSP
- Tomcat the Web Container

Session 3: INSTALLING TOMCAT

- Installation Options
- Setting up Java
- Installing the Tomcat Web Container
- Validating a Successful Installation

Session 4: CONFIGURATION ESSENTIALS

- The Tomcat Directory Structure
- Understanding the Configuration Files
- The Component Architecture
- JVM Configuration   Apache Tomcat Administration Training Course Course Contents - DAY 2

Session 5: LOGGING AND MONITORING

- Understanding Log Files
- Troubleshooting
- Load Testing
- Interpreting Results
- Monitoring with Tomcat Manager
- Threads and Memory

Session 6: DEPLOYING APPLICATIONS

- Deploying WAR Files
- Hot Deployment
- Deploying Unpacked Files
- Deploying with Tomcat Manager

Session 7: DEFINING DATASOURCES

- Configuring a JDBC Datasource
- Using JNDI Resources
- Connection Pooling   Apache Tomcat Administration Training Course Course Contents - DAY 3

Session 8: WORKING WITH WEB SERVERS

- Tomcat and the Apache Web Server
- Advantages and Disadvantages of Web Servers
- Configuring Apache with Tomcat
- Virtual Hosting

Session 9: CLUSTERING

- Clustering Benefits
- Setting up Clustering
- Load Balancing and Failover

Session 10: SECURITY CONSIDERATIONS

- File System Security
- Realms,Roles and Users
- Java Security Manager
- SSL Configuration

Session 11: HARDENING TOMCAT INSTALATIONS

- Restricting Interfaces
- Operating System Privileges
- Handling Sessions
- Securing Default Settings

Session 12: CUSTOM TOMCAT BUILDS

- Support Libraries
- Setting up Apache Ant
- Generating Builds

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK