

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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APACHE TOMCAT

Introduction to Apache Tomcat

- Overview of Apache Tomcat and its role as a servlet container
- History and evolution of Tomcat
- Use cases and benefits of using Apache Tomcat

Tomcat Installation and Configuration

- Pre-requisites and system requirements
- Installing Tomcat (binary installation, package installation)
- Configuring Tomcat server and environment variables

Tomcat Architecture and Components

- Understanding Tomcat architecture (Catalina, connectors, container, etc.)
- Overview of Tomcat components (Server, Service, Connector, Engine, Host, Context)
- Tomcat directory structure and configuration files

Web Application Deployment

- Deploying web applications (WAR and exploded WAR deployment)
- Managing web applications using Tomcat Manager and Admin Console
- Configuring contexts and virtual hosts

Servlets and JSPs in Tomcat

- Introduction to servlets and JavaServer Pages (JSP)
- Writing servlets and JSPs for Tomcat
- Deploying servlets and JSPs in Tomcat
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Tomcat Security

- Securing Tomcat server (User authentication, SSL configuration)
- Restricting access to web applications (Roles and permissions)
- Best practices for securing Tomcat env
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Tomcat Logging and Monitoring

- Configuring logging in Tomcat (Access logs, error logs)
- Monitoring Tomcat server performance (JMX, SNMP)
- Using management tools

Tomcat High Availability and Clustering

- Overview of Tomcat clustering and load balancing
- Setting up Tomcat clusters for high availability
- Session management in clustered environments

Tomcat Performance Tuning

- Tuning Tomcat server for performance (Thread pools, connection pools)
- Optimizing JVM settings for Tomcat
- Caching strategies and content delivery optimization

Tomcat Integration with Apache HTTP Server

- Integrating Tomcat with Apache HTTP Server using connectors (mod_jk, mod_proxy)
- Configuring reverse proxy and load balancing with Apache HTTP Server

Tomcat Maintenance and Troubleshooting

- Upgrading Tomcat server to newer versions
- Troubleshooting common Tomcat issues (startup failures, memory leaks, etc.)
- Backup and recovery strategies for Tomcat configurations and web applications

Advanced Topics

- Using Tomcat with frameworks and libraries (Spring, Hibernate, etc.)
- Implementing RESTful services with Tomcat
- Dockerizing Tomcat applications