

# Apache Tomcat Server

**Duration:** 3 Days (8Hours per day)

## **Module 1 – Introduction to Tomcat and Installation**

Overview of Tomcat  
Installation and Configuration of Tomcat

## **Module 2 – Tomcat Security and SSL configuration**

Security Overview  
Enable SSL – Generating Certificate  
Enabling SSL

## **Module 3 – Virtual Hosts**

Introduction to Virtual Host  
Configuring Virtual Host

## **Module 4 – HA Clustering**

Scaling Traffic and High Availability using Clustering  
Cluster Setup

## **Module 5 – Load Balancing**

Load Balancing Tomcat using NGINX  
Setting up Apache and Mod\_Jk Connector  
Distributing Traffic with Apache Load Balancer

## **Module 6 – Session Management and Connection Pooling**

Stickey Sessions Introduction  
Configuring Stickey Sessions on NGINX and Apahce LB  
Session Replication Introduction  
Configuring Session Replication  
Understanding JNDI  
Understanding Connection Pooling  
Creating JNDI and JDBC Connection Pooling

## **Module 7 – Custom Error Page and Tomcat Logging**

Configuring Custom Error Page  
Configuring Tomcat Logging

## **Module 8 – Performance Tuning and Optimization**

Performance Tuning Overview  
Setting Up Monitoring  
Connectors and Executor Thread Optimization  
Memory Optimization – Heap and Metaspace  
Enable HTTP Response Compression