

# VMware vFabric tc Server™

The Best Place to Build and Run Spring Applications

## OPTIMIZED FOR SPRING

With Spring Insight, free with VMware vFabric™ tc Server Developer Edition, developers gain deep performance insight into Spring applications during the development process.

And with vFabric tc Server Spring Edition you can extend that same visibility for your application operators in a production environment.

## IDEAL FOR VIRTUAL

With a memory footprint of 10MB, vFabric tc Server is ideally suited for modern virtual and cloud environments.

## COMMERCIAL TOMCAT

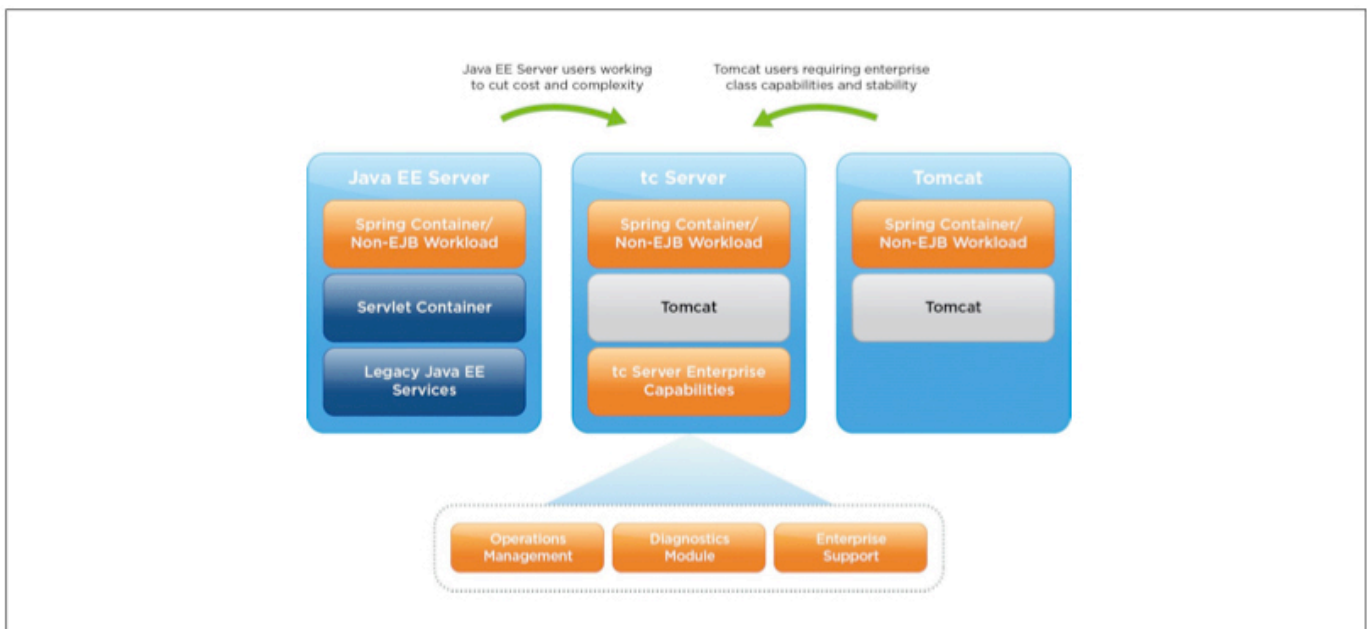
SpringSource is the leader in Apache Tomcat support, with more than 400 of the world's largest organizations relying on our Tomcat experts for support. And more than 80 percent of Tomcat code commits in the last two years were made by SpringSource employees.

## VMware Overview

VMware vFabric tc Server is the runtime server at the heart of the VMware vFabric Cloud Application Platform. Available in Spring Edition, Standard Edition and Developer Edition, tc Server is the best place build and run your Spring applications and with its lightweight footprint it is ideally suited for virtual and cloud environments. And as an enterprise version of Apache Tomcat, tc Server adds core capabilities to enable developer efficiency, operational control and deployment flexibility all backed by mission-critical support.

The Spring container has replaced the EJB container in a majority of enterprise Java applications to become the de facto standard for enterprise Java. Spring has also been a key driver of the adoption of Tomcat, which is now used by more than 70 percent of organizations, according to a recent Evans Data Study. And the Spring–Tomcat stack powers many of the world's most demanding applications across retail, banking, manufacturing, healthcare and other industry segments.

tc Server provides the powerful, lightweight benefits of Tomcat, along with important enterprise class features that organizations require. It is suited for organizations currently using Spring with legacy Java EE servers and that are considering migrating off expensive and heavyweight application servers, and also for current Tomcat users who need additional operational management and diagnostics capabilities together with enterprise support.



## Key Highlights

tc Server is designed to support the entire application lifecycle with a lightweight platform that is ideally suited for building and running modern applications. Developer Efficiency

Optimized for running Spring applications, the world's most widely used Java development framework, tc Server includes core capabilities designed to enhance the efficiency of Spring developers:

- Using the Spring Insight console (included with Developer Edition) developers can obtain a dashboard view of real-time Spring application performance metrics. Without changing their code, developers can use Spring Insight to detect, analyze and diagnose application performance issues right from their desktops.
- Developers will be immediately familiar with vFabric tc Server since it is based on the popular Tomcat Server that is in use at 70 percent of organizations today.

## Operations Management

tc Server provides operations management and monitoring of servers and applications for a single instance or across many nodes, from a single console. Capabilities include:

### Application Management

- Native Spring instrumentation to enable fine grain application monitoring in production
- List all applications running in a distributed collection of server instances
- Target, deploy and un-deploy applications to distributed server instances
- Control application parameters like caching and JSP behavior

### Server Management

- Remote configuration control for server instances
- Define virtual hosts, access logs and web server integration
- Configure JVM parameters, such as Java heap size and garbage collection
- Dynamic control and resizing of thread pools without server restart
- Define server groups

## Advanced Server Diagnostics

tc Server provides advanced diagnostics, such as thread lock detection and automatic and on-demand failure logging to enable swift isolation, diagnosis and repair of issues. Features include:

- Application thread lock detection provides warnings when threads compete for restricted resources in a way that would compromise application integrity
- Configurable automatic and on-demand thread and heap dumping for failure and exception analysis
- Thread to URL association for faster diagnosis when analyzing problems with request processing

## Deployment Flexibility

Deploy your applications to physical or virtual hosts

- Lightweight server (10MB) ideal for virtual environments
- Template-driven server instance creation to simplify and accelerate deployment
- Integrated experience with VMware environments
- Out of the box support for both HTTP session replication and L2 caching for Hibernate objects, via vFabric GemFire

## Selected Customers








*“Test and live deployments are taking the developers literally a couple of minutes with vFabric tc Server – where they used to take up to two hours on Oracle WebLogic.*

*The throughput on vFabric tc Server is at least 3X greater than WebLogic and the CPU and load on the production servers is about half”*

— **Shaun Perkinson, Associated Newspapers**

*“Without vFabric tc Server, I could not have deployed my web-based applications into the private cloud environment I created. vFabric tc Server’s small footprint allows me to deploy a dozen app server instances on one physical box virtualized by VMware, with plenty of capacity left over”*

— **John Brisbin, NPC International**

