

# Fast, Secure Path to Production for Spring Apps

Eliminate technical debt  
and accelerate application delivery.

## The Tanzu Advantage for Spring

VMware Tanzu Platform offers the industry's only programmatic, incremental upgrade path for Spring applications. This platform enables organizations to manage thousands of repositories with the same effort traditionally required for one.

### Strategic Benefits

- **AI innovation in software development lifecycle** – Reduce developer time spent upgrading Spring Java by up to 50%–70%. Focus on AI innovation with paths to production, providing safe access to AI models and data.
- **Risk-mitigated modernization** – Utilize prescriptive, incremental migration paths to eliminate the complexity of large-scale API changes.
- **Architectural integrity** – Maintain cleaner codebases through automated technical debt reduction and streamlined branch management.
- **Enterprise-grade security** – Reduce security exposures and remediation time, leveraging repeatable patterns, delivering continuous upgrades across your application estate. Bridge compliance gaps through app vulnerability dashboards, verify compliance, or download SBOMs.

For the modern enterprise, the primary obstacle to innovation is often the compounding weight of technical debt. Application development teams are increasingly tasked with maintaining a vast estate of existing code, which can leave limited capacity for building new, value-driven features.

To break through this stagnation, organizations need a prescriptive strategy that transforms the daunting task of portfolio-wide modernization into a series of manageable, automated steps. VMware Tanzu Platform introduces a programmatic, high-velocity response to these hurdles by shifting application modernization from a manual, point-in-time audit to a continuous engineering practice.

## Bridging the gap between code and production

A significant portion of enterprise risk lives in the gap between development and production. In many environments, applications are effectively out-of-date before they are even deployed. For instance, as the maintainer of Spring, the Tanzu Division of Broadcom calculated that 60 percent of Spring Boot downloads are for unsupported versions, meaning there is a high likelihood that applications are entering production with known vulnerabilities. This added “maintenance tax” not only increases risk but also drains developer productivity, as teams are forced into reactive patching rather than proactive feature delivery.

Tanzu Platform addresses security risk and maintenance burdens by providing a unified set of capabilities that automate the discovery, assessment, and onboarding of applications. Instead of relying on manual surveys or subjective interviews, Tanzu Platform utilizes a nonintrusive, automated scan of application repositories to provide a “single pane of glass” view into the health and readiness of the entire application estate.

## Transform modernization into a programmatic practice

This approach focuses on two critical phases: providing complete visibility into the technical debt backlog and providing prescriptive, semi-autonomous workflows to patch application libraries and dependencies.

### Data-driven visibility and strategy

The journey begins with the Application Portfolio Assessment, which provides a “clear box” view of your application estate. Unlike traditional tools that monitor the runtime environment, Tanzu Platform performs a nonintrusive, deep-dive scan of your source code repositories. This is a critical distinction: by analyzing an application at the source, Tanzu Platform identifies exactly what is built into your software—framework versions, library dependencies, and configuration patterns—long before they reach production.

This approach can surface the hidden sprawl and technical debt that runtime monitors often miss. Applications are automatically scored based on their cloud suitability and security posture, allowing IT leaders to align technical modernization efforts with business criticality. This data-driven visibility enables your team to not just react to runtime alerts, but to also proactively identify the best candidates for automation to deliver greater return on investment. This intelligent fleet analysis looks at both technical debt and business value across your entire application repository fleet in parallel, enabling programmatic wave planning and prioritization of modernization efforts instead of relying on subjective spreadsheets or manual audits.



**Figure 1:** The App Portfolio Assessment dashboard in Tanzu Platform provides an overview of application suitability for platform onboarding, modernization challenges, and technical debts.

### The “easy button” for modernization

Once the portfolio is assessed, Tanzu Platform provides the prescriptive guidance and automation needed to take action. While the platform offers visibility and better understanding of technical challenges across various languages, it provides a specialized “easy button” for Java and Spring applications.

This platform-assisted modernization is so powerful that it uses AI-driven refactoring to accelerate the conversion of legacy J2EE and COBOL systems into modern Spring Boot microservices, unlocking mission-critical data trapped in those monoliths for use by next-generation applications. Using automated code remediation and prescriptive upgrade recipes based on years of modernization

## Upgrade Your App Portfolio

Application assessment and onboarding is included with Tanzu Platform 10.3 and later.

### Not yet running Tanzu Platform?

Access the technical requirements for the Tanzu Platform Evaluation Appliance—designed to automate app assessments and validate your path to a secure software factory using Tanzu Platform.

View technical requirements & implementation details: <https://techdocs.broadcom.com/us/en/vmware-tanzu/platform/tanzu-platform-evaluation-appliances/10-4/tp-evaluation-appliances/overview.html>

experience and best practices from Tanzu's Spring experts, Tanzu Platform can orchestrate complex dependency updates across your entire application estate. This can significantly reduce the manual toil associated with framework upgrades, allowing teams to move from unsupported versions to more secure, performant codebases with minimal intervention.

This automation doesn't stop at the code level. Tanzu Platform is designed to seamlessly onboard and replatform your applications into a governed environment. Once onboarded, the platform can automatically configure applications to utilize essential platform services, such as distributed logging and observability. This ensures applications are integrated into a secure software factory where security policies and compliance standards are applied by the platform, enabling apps to stay current and secure throughout their entire lifecycle.

## Deliver strategic business outcomes

Transitioning modern app development and delivery to Tanzu Platform enables fundamental business transformation. By standardizing the path to production with VMware Tanzu Platform and VMware Spring, organizations can achieve:

- **Increased velocity** – Move from code to production in as little as one to two business days with automated tests and security checks.
- **Enhanced compliance** – Meet a vast majority of technical controls for rigorous frameworks (such as NIST or PCI) through platform-provided automation.
- **Operational efficiency** – Reclaim significant developer capacity by automating maintenance and lifecycle management, shifting the focus back to innovation.
- **Reduced enterprise risk** – Proactively eliminate vulnerabilities by verifying that applications are running on supported, patched versions of their respective frameworks.

## Take the first step toward a modern app portfolio

The path to a faster, more secure production environment starts with visibility. By turning the “black box” of technical debt into a transparent roadmap, Tanzu Platform allows you to move past survival and focus on delivering the next generation of customer experiences.

To learn how Tanzu Platform can accelerate your specific application modernization goals, we invite you to engage with your Broadcom account team or partner for an App Portfolio Assessment. We will work with you to scan a representative subset of your application estate and deliver a data-driven Suitability Heatmap, providing a clear vision of your path to production and the automated steps to get there.

For more information on Tanzu Platform, please visit [www.vmware.com/products/app-platform/tanzu](http://www.vmware.com/products/app-platform/tanzu) or [contact us](#).