



Build a Software Factory with VMware Tanzu Labs

Build, ship and maintain incredible applications within your organization

“By automating everything that can be automatable with VMware Tanzu®, we were able to focus on our soldiers, which is the lifeblood of everything we’re doing at the software factory.”

Maj. Vito Errico
Director
U.S. Army Software Factory

More often than not, improving business performance through software development comes down to empowering developers and creating the right environment for them to succeed.

With software factories, VMware Tanzu Labs™ experts work with your team to develop and scale an organized approach to building software directly within your organization. We’ll focus on enabling, upskilling and creating the right environment for your needs to maximize developer productivity.

Empower your teams. Deliver value forever.

We’ll help you build a robust, compliant and resilient software development practice to deliver applications to production faster.

Spend more time building the software and products that matter

As part of setting up your software factory, we’ll leverage well-understood methods and process automation to increase developer productivity and decrease toil. By eliminating as many barriers as possible across the software development lifecycle, your teams will spend more time working on what matters: writing code.

Accelerate the delivery of business-critical applications to production

To guarantee the application you’re developing meets the user and business outcomes you desire, we’ll implement agile best practices and get your first minimum viable product (MVP) into production within the first few months. Along the way, we’ll help you speed up the process of creating and testing new code so you can continue to add new features rapidly.

Close the technical skill gap and enable your team for long-term success

Establishing a software factory allows you to build more collaborative teams and catalyze the changes to your corporate culture necessary for digital transformation. We’ll educate and upskill your teams to increase job satisfaction, lower attrition, and create a desirable environment—making recruiting developers, designers and product owners easier.

Empower your teams to build great software with VMware Tanzu Labs

Visit tanzu.vmware.com/customers to learn how organizations such as Ford, Dell, DISH, GE, Accenture, Allstate, Boeing, Toyota, the U.S. Army, and the U.S. Marine Corps built software factories to deliver exceptional digital products.

Uphold a standard of higher-quality software

Standardizing the processes necessary for software delivery ensures project consistency across projects while lowering training and maintenance costs. We'll help you scale these practices across your teams and portfolio of apps to help decrease the defect rate and the cost of reworking faulty software.

What you'll learn: I do, we do, you do

The exact components that make up your software factory will depend on your organization's existing technical capabilities and software development goals. Our expert practitioners can help implement various best practices, tools and technologies across multiple disciplines involved in the application development lifecycle.

Table 1: Development goals for your software factory

Focus area	Skills/capabilities developed
<p>Modern software engineering practices</p> <p>Tanzu Labs developers use extreme programming (XP) and cloud native development practices, pairing with your developers to write quality code and develop apps to utilize cloud technology.</p>	<ul style="list-style-type: none"> • Foundational software engineering (Java/.NET) • Cloud native/microservices architectures: <ul style="list-style-type: none"> – Spring Framework – 15-factor patterns – API-first development – SWIFT methodology – Domain-driven design – Path-to-production analysis • Agile/XP development: <ul style="list-style-type: none"> – Pair programming – Test-driven development – Continuous integration/continuous delivery (CI/CD) • Application modernization approaches • Monolith decomposition • Application portfolio assessment and modernization

More ways to learn

- [VMware Tanzu Developer Center](#) – Take advantage of this free resource that provides guides, workshops and learning paths for developers and Kubernetes platform operators, including a collection of lean, agile and user-centered practices used by VMware Tanzu Labs.
- [KubeAcademy](#) – Choose from more than 30 free, on-demand courses taught by experts on the fundamentals of Kubernetes.
- [Spring Academy](#) – Expand your knowledge and skills with on-demand education developed and curated by the world's foremost experts in Spring.

Table 1: Development goals for your software factory

Focus area	Skills/capabilities developed
<p>Agile product design and management</p> <p>Tanzu Labs product managers and designers pair with your teams to provide the tools, patterns and methods that lay the foundation for a healthy agile product development practice.</p>	<ul style="list-style-type: none"> • Leadership development • Product office development • Stakeholder (line of business [LOB]) engagement • Lean product development and management: <ul style="list-style-type: none"> – Product vision and strategy – MVP definition – Lean experiments – Balanced teams • User-centered design (UCD): <ul style="list-style-type: none"> – User interviews – Ethnographic studies – Persona definition – Service blueprints – Prototype creation
<p>Platform engineering and operations</p> <p>Tanzu Labs platform engineers work side by side with your teams to transfer skills and foster DevOps and DevSecOps practices to support a frictionless developer experience.</p>	<ul style="list-style-type: none"> • Container platform operations (hybrid/multi-cloud) • DevSecOps • CI/CD and platform automation • Continuous platform compliance • Platform as product: <ul style="list-style-type: none"> – Day 2 operations – End-to-end automation – Site reliability engineering – Developer onboarding • Developer portals/golden path

Start your organization's software factory today

Build out your organization's optimal software development team and practice. Contact your VMware Tanzu Labs account team, or reach out to us at tanzu.vmware.com/labs.