



Industry

Application Modernization and Cloud Computing

Location

Palo Alto, California

Goal

Drive the VMware IT vision for digital transformation through the power of modern applications using VMware Tanzu.

Challenges

- Complex nature of applications reduces the speed to production.
- Entire applications need to be redeployed on each update.
- If one service fails, it can lead to an entire system failure.
- Less scalability.

Solution

VMware Tanzu® Kubernetes Grid™, VMware Tanzu® Application Service™, VMware Tanzu® Mission Control™, Harbor, VMware Aria Automation Pipelines™, VMware Application Catalog™, VMware Aria Operations™ for Applications

How VMware IT Built a Modern Application Platform with VMware Tanzu

VMware IT leveraged the VMware Tanzu® portfolio to build an application platform for VMware developers, enabling them to deliver software faster and provide improved code quality.

This is an example of how IT departments have evolved, effectively becoming the catalyst for driving modernization efforts for companies. IT departments often ensure that the business can generate new revenue and remain competitive in a constantly changing marketplace as customer needs shift.

With VMware IT modernizing its application portfolio, it was crucial to develop a modern application platform (MAP) for VMware developers to deploy their container-based workloads. Our MAP easily scales to provides the software tools necessary for a mature application supply chain and delivers end-to-end availability.

VMware IT built this platform leveraging the VMware Tanzu portfolio of products.

Modern application platform

Our MAP is a middleware PaaS layer on top of the on-premises infrastructure that provides resources to build, run and manage custom-built IT applications.

The MAP provides a full range of capabilities, services and features, including:

VMware IT MAP Capabilities		
Build	Run	Manage
<ul style="list-style-type: none"> • Lifecycle Management • CI/CD Toolchain • Artifacts Repository • Version Control 	<ul style="list-style-type: none"> • Runtime: Container, VMS • Services: DB, Messaging, Caching, Search, etc. • Application Ingress: API Gateway, Proxy • Network Ingress: DNS, Load Balancing, WAF 	<ul style="list-style-type: none"> • Observability • Remediation • Active-Active DR • Backup/Restore • Security and Compliance • Auditing and Governance

Solution: VMware Tanzu portfolio

- Accelerates time to market for new software.
- Reduces the cost and risk of operating applications.
- Quickly delivers better digital experiences.
- Rationalizes the portfolio—at the lowest TCO.

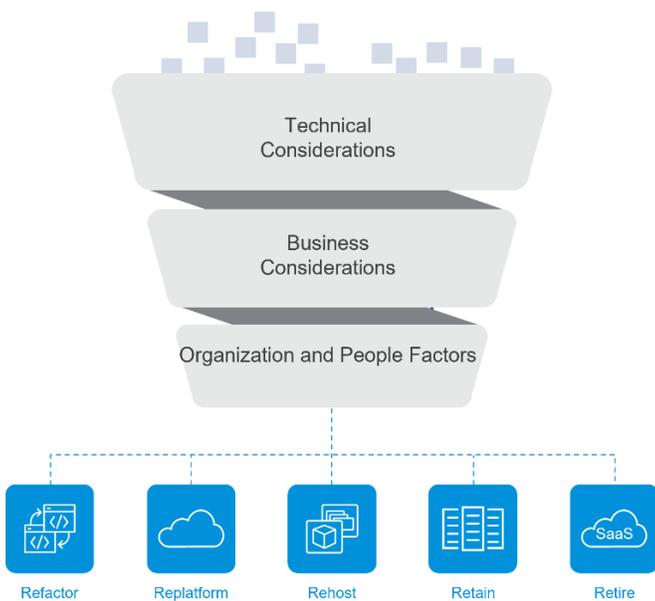


Figure 1. App prioritization—modernization strategy.

Top five use cases

1. **Streamlined App Development**—Enhances developer productivity and reduce costs by providing a consistent, automated multi-cloud platform.
2. **Facilitates App Modernization**—Modernizes the VMware IT portfolio by migrating existing apps to a modern platform and encouraging new app development to follow 12-factor app principles.
3. **Optimized Platform Operations**—Improves operational efficiency through consistent management across public and private cloud while delivering on key SLAs/SLOs (service-level agreements/objectives).
4. **Kubernetes and Containerized Applications Monitoring**—Delivers full-stack Kubernetes observability at scale. Ingests data across the board from our applications, helping to identify the root cause with predefined alerts and events.
5. **Empowered Teams**—Helps build a modern DevOps culture that encourages self-service and continuously delivers customer value with a rapid yet sustainable path to production.

Looking Ahead

VMware IT is in the process of building a cloud-agnostic solution that provides VMware the ability to extend our applications to a multi-cloud environment and increase our availability to 99.99% for business-critical applications.

Built with the VMware Tanzu portfolio, this new environment will allow us to implement a flexible and scalable modern application platform to meet our SaaS-based business priorities. The focus shifts to the app's requirements for various environments – on-premises, hybrid cloud or multi-cloud – and how to maximize efficiencies.

Learn More

To learn more, contact your sales representative or vmwonvmw@vmware.com to schedule a 1:1 customer briefing on this topic with a VMware IT subject matter expert.

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