Simplify Container Adoption with VMware Cloud Foundation

Get Started
Chapter 1: Introduction

As part of strategic digital transformation initiatives, a growing number of organizations are turning to container technologies to accelerate application development and testing, as well as to drive server consolidation efforts and to assist with multi-cloud compatibility challenges.

50% of applications are containerized

1 Dell: Container Adoption Trends - Why, How and Where
Chapter 2: Challenges

Container-centric approaches to application modernization offer numerous benefits, such as application portability, speed, workflow-driven operational consistency, scalability, and security. However, key challenges include complexity of enabling technologies, as well as uncertainty about security capabilities, lack of internal know-how, and fear of high costs as challenges that prevent broad container adoption. For organizations managing disparate infrastructures while also onboarding new technologies, the barriers to container adoption can be high.

Challenges to Container Adoption:
Chapter 3: VMware Cloud Foundation Overview

VMware Cloud Foundation™ is the hybrid cloud platform for modernizing data centers and deploying modern apps. VMware Cloud Foundation delivers enterprise agility, reliability, and efficiency for customers seeking to deploy private and hybrid clouds. VMware Cloud Foundation is based on VMware’s proven and comprehensive software-defined stack including VMware vSphere®, VMware vSAN™, VMware NSX®, and VMware vRealize® Suite, providing a complete set of software-defined services for compute, storage, networking, security, and cloud management to run enterprise apps—traditional or containerized—across hybrid clouds.
Chapter 4: VMware Cloud Foundation with VMware Tanzu

VMware offers a single platform that manages both VMs and containers. VMware Cloud Foundation™ with Tanzu™ delivers a Kubernetes runtime embedded within vSphere, as well as software-defined storage, networking and security that is uniquely suited for hosting both traditional workloads and modern cloud-native applications. And the full range of VMware infrastructure and management tools is also now optimized for Kubernetes.

Accelerate provisioning by 90% and improve operational efficiency by nearly 70%—while giving developers self-service access to Kubernetes with security and policy guardrails in place.

2&3 VMware: FAQ - How to Run Virtual Machines and Container Workloads on a Single Hybrid Cloud Platform
Chapter 5: Universitätsmedizin Essen Case Study

Universitätsmedizin Essen (UME) is one of the most respected hospitals in Germany. Like many hospitals today, it found itself struggling with challenges that are symptomatic in healthcare: the need to implement smart services and protect highly sensitive patient data from cyber-attacks. Using VMware Cloud Foundation™ with Tanzu and VMware NSX®, UME’s data center management is now more efficient, and security and failsafe features are guaranteed, and both flexibility and scalability have been enhanced. UME has also been able to move forward with the development of innovative apps – underpinning its reputation as a digital pioneer.

“VMware Professional Services helped us quickly transition from our on-premises environment to software as a service. We are now able to securely manage mobile devices and applications, provide remote access, deploy new devices, and operate the solution.”

Armin de Greiff, Technical Director, Universitätsmedizin Essen, Central IT Department
Chapter 6: Conclusion

VMware Cloud Foundation supports both traditional enterprise and modern apps and provides a complete set of highly secure software-defined services for compute, storage, network, security, Kubernetes and cloud management. Increase enterprise agility and flexibility with consistent infrastructure and operations across private and public clouds.
Get Started Today

Explore your new hybrid cloud platform

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