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]

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:
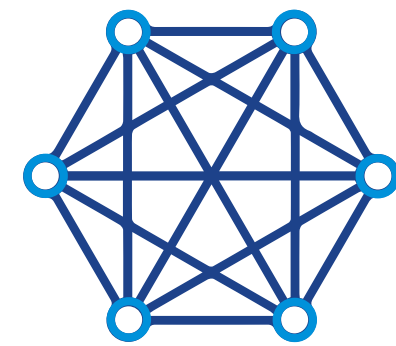
| Complexity of enabling technologies	Uncertainty about security capabilities	Lack of internal know-how	Fear of high costs

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.
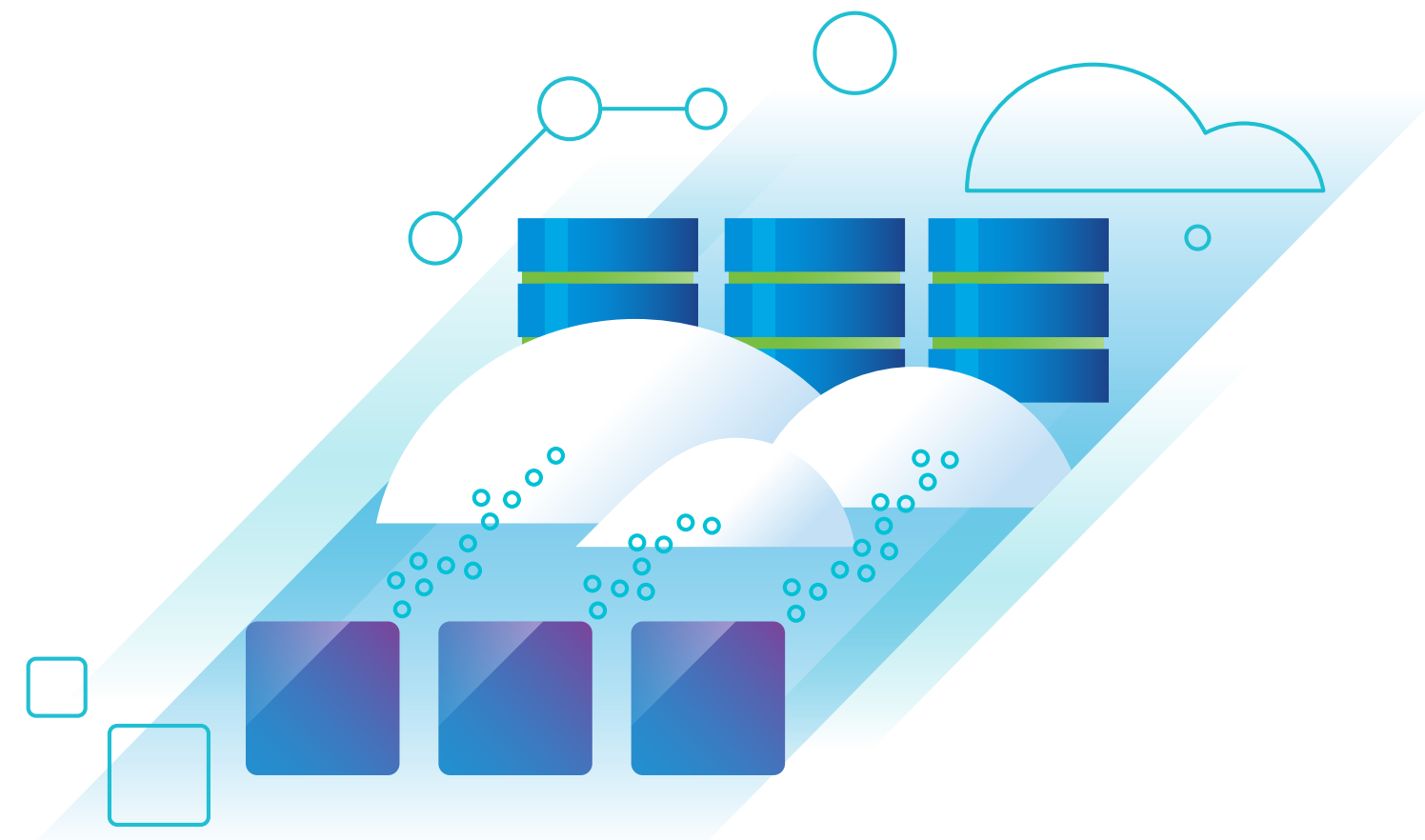
Software Defined
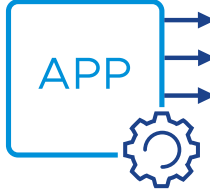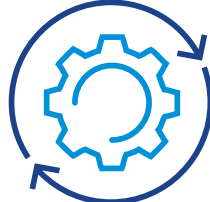
VMware vSphere®

VMware vSAN™

VMware NSX®

VMware vRealize® Suite

vmware®

Chapter 4: VCF+ with Developer Services

VMware offers a single platform that delivers the benefits of public cloud to on-premises workloads — both VMs and containers. VMware Cloud Foundation+™ combines industry-leading full stack hyperconverged infrastructure technology, an enterprise-ready Kubernetes environment, and high-value cloud services to transform existing on-premises deployments into SaaS-enabled infrastructure.

Create a modern app platform
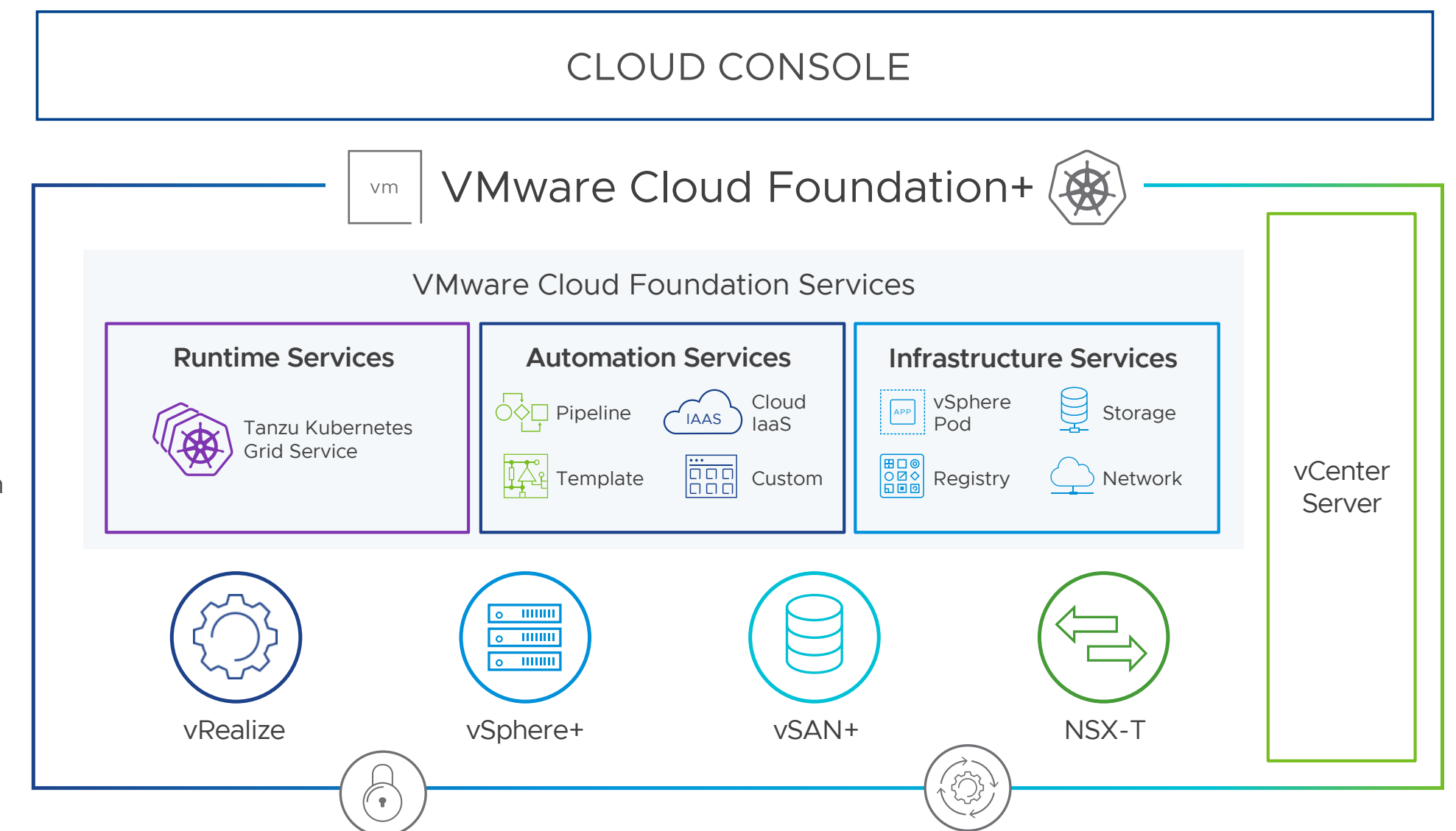Transform existing virtual infrastructure into an enterprise-ready, self-service Kubernetes platform.

Operate with maximum efficiency
Streamline platform management with integrated logging, registry, monitoring, ingress, and more.

Manage large scale deployments
Centralize platform operations with a multi-cloud management plane that increases security and governance of your Kubernetes clusters.

Streamlined Management

Flexible Subscription Model

High-Value Cloud Services

CLOUD CONSOLE

VMware Cloud Foundation+

VMware Cloud Foundation Services

Runtime Services
Tanzu Kubernetes Grid Service

Automation Services
Pipeline
Cloud IaaS
Template
Custom

Infrastructure Services
vSphere Pod
Storage
Registry
Network

vRealize

vSphere+

vSAN+

NSX-T

vCenter Server

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.

University Medicine Essen
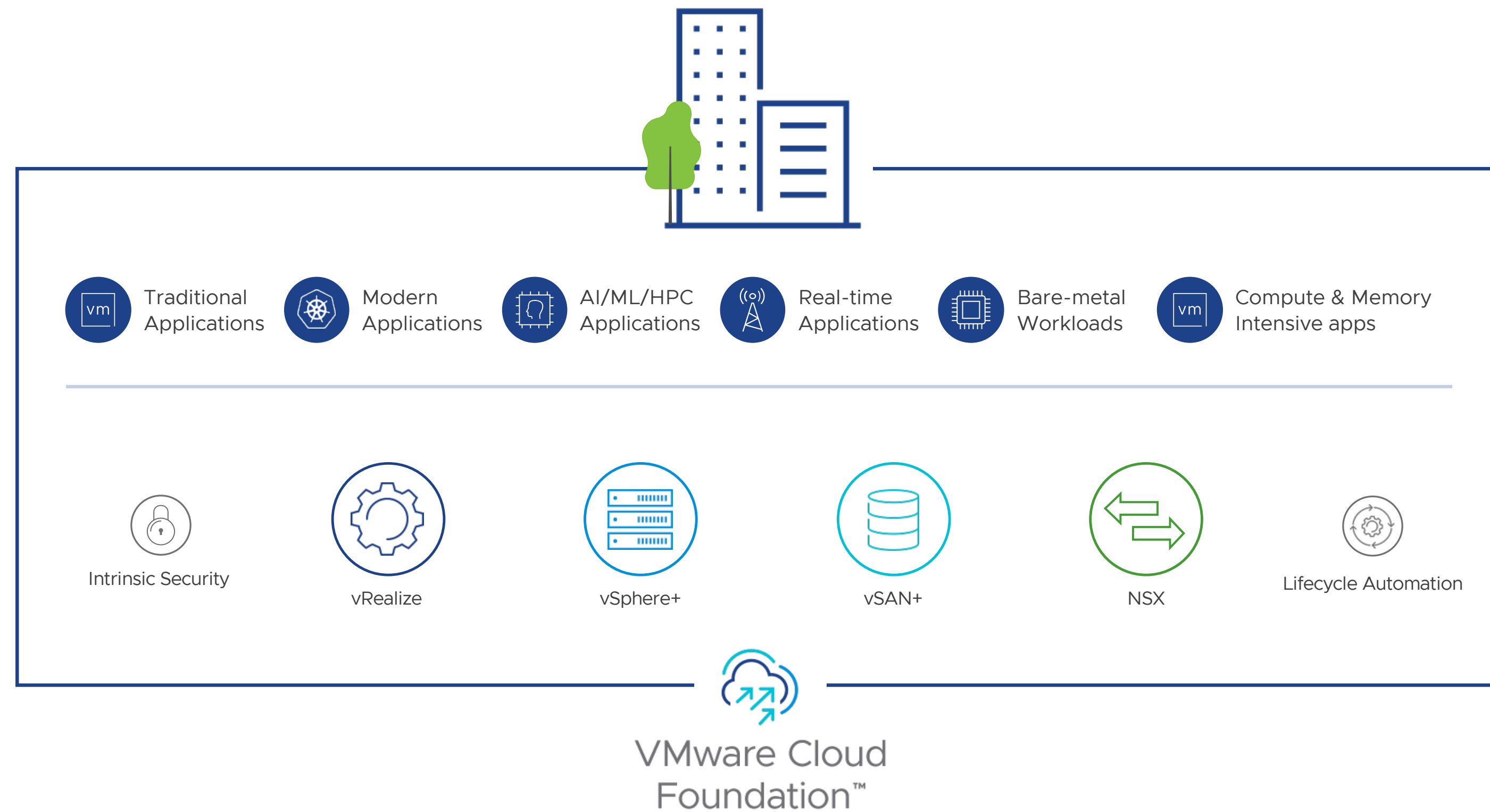Institute for Artificial Intelligence in Medicine

"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.

Join us online:

vmware®