Optimize Your IT Infrastructure with VMware vSphere Foundation

Harness the power of the enterprise-class hyperconverged infrastructure (HCI) solution

vSphere Foundation benefits

77% gain in operational efficiency

20% reduction in issue resolution time

5x reduction in relative downtime

100% reduction in last-minute hardware costs

Source: Results are for a composite organization based on interviewed customers. The Total Economic Impact™ Of VMware Cloud Foundation Operations, a commissioned study conducted by Forrester Consulting on behalf of VMware, published April 2024.

Workloads, workloads everywhere. With the proliferation of workloads across all locations, including public cloud, private cloud and the edge, today's organizations are seeing their IT environments become more fractured and siloed than ever. This increasing complexity hinders enterprises in a variety of ways. Innovation gets stifled. Productivity goes down. Costs go up. Security becomes more challenging. Solving the complexity conundrum is critical for your organization to thrive. But how?

You need a truly modern solution that delivers four essential elements:

Intelligent operations management

- Manage SLAs with consistent performance.
- Maximize resource efficiency at scale.
- Gain real-time insights for faster resolution.

A high-performing infrastructure

- Optimize performance with integrated infrastructure.
- Support accelerators for modern workloads.
- Simplify lifecycle management.

A developer-friendly platform

- Enable seamless Kubernetes integration.
- Support accelerators for modern workloads.
- Enhance Kubernetes cluster flexibility.

Security and compliance features

- Maintain data integrity.
- Protect data privacy.
- Meet compliance requirements.

In short, you need VMware vSphere® Foundation.

vmware®
by **Broadcom**

Benefits of deploying HCI with VMware vSphere Foundation and VMware vSAN

365% three-year ROI*

42% more efficient infrastructure teams*

77% faster storage deployments*

96% less planned downtime*

Up to 4x higher performance**

Up to 4x greater compression**

Up to 70% extra usable capacity**

*IDC Business Value White Paper, sponsored by VMware by Broadcom, The Business Value of VMware vSAN Storage for Hyperconverged Infrastructure, November 2024 IDC#US5270524

**With vSAN Express Storage Architecture on compatible devices.

Global leaders choose VMware by Broadcom

All around the world, today's most innovative organizations rely on VMware to help them navigate change.

300K organizations use VMware globally

85M workloads run on VMware daily

5M developers build on VMware today

Transform your organization with vSphere Foundation

VMware vSphere® Foundation is the workload platform that delivers an enterprise-class hyperconverged infrastructure (HCI) solution that combines compute and storage virtualization with built in kubernetes orchestration and intelligent operations to run both virtual machines (VMs) and containers on the same platform. VMware vSphere Foundation simplifies workflows, improves operational efficiency, enhances workload performance, strengthens security, and accelerates innovation by enabling faster deployment of new applications. With scalable, resilient infrastructure designed to support cloud-native and traditional workloads, vSphere Foundation empowers IT teams to optimize operations, scale seamlessly, and future proofing infrastructure to meet evolving business demands.

Boost operational efficiency

With intelligent operations management and advanced analytics, vSphere Foundation can help you simplify, optimize, and scale your infrastructure while freeing your IT staff to focus on more strategic business initiatives.

• Easily scale with multi-OEM solutions for VMware vSAN clusters, simplifying management, reducing procurement costs and ensuring faster deployment.

• Streamline and accelerate vSphere Foundation deployment with automated workflows, pre-checks and vSphere Foundation management, reducing complexity and operational costs.

• Reduce downtime and enhance efficiencies with proactive storage management and optimization.

• Detect and resolve issues faster with a single console for diagnostics and proactive monitoring.
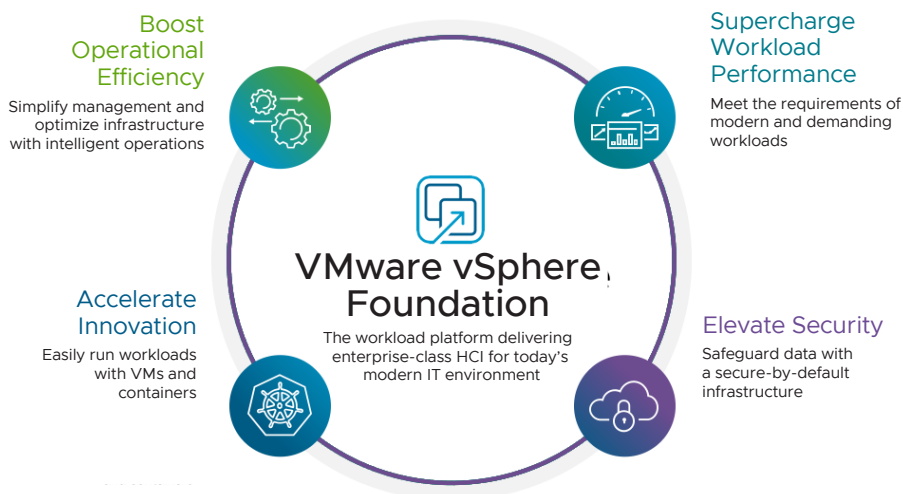

Boost Operational Efficiency
Simplify management and optimize infrastructure with intelligent operations

Supercharge Workload Performance
Meet the requirements of modern and demanding workloads

VMware vSphere Foundation
The workload platform delivering enterprise-class HCI for today's modern IT environment

Accelerate Innovation
Easily run workloads with VMs and containers

Elevate Security
Safeguard data with a secure-by-default infrastructure

Figure 1: How vSphere Foundation helps optimize your IT infrastructure.

vmware®
by **Broadcom**

Best IT Infrastructure Software Products for 2025

vSphere was named a G2 Leader in the Server Virtualization category for Winter 2025, maintaining our leadership status in 2025.

Leader in G2 Enterprise Grid® Reports

vSphere was named leader in the G2 Enterprise Grid® Reports for Container Orchestration, Server Virtualization, and DevOps for Winter 2025. It is rated highly by G2 users, and has substantial Satifaction and Market Presence scores.

Overall Leader in Product Segment

vSphere was ranked #1 in the G2 Grid® Report for Server Virtualization, Winter 2025.

Supercharge workload performance

VMware vSphere Foundation helps your organization easily power the most demanding modern workloads by optimizing memory, scalability and efficiency.

• Reduce memory and server TCO by up to 38% with NVMe Memory Tiering, while boosting VDI performance and optimizing CPU utilization.

• Support large workloads such as SAP-HANA with high-scale VM consolidation.

• Reduce downtime for GPU workloads while improving reliability and performance with 6x faster vMotion.

• Increase vSAN storage cluster (formerly vSAN MAX) performance by up to 25% with traffic separation.

Accelerate innovation with unified automation

Empower developers and DevOps teams with self-service access, integrated Kubernetes, and unified automation to run workloads with VMs and containers and drive business innovation.

• Speed deployment of the Supervisor Cluster that integrates Kubernetes with vSphere, then easily scale by adding advanced features as needed.

• Enable independent Supervisor upgrades from vSphere for fast access to new Kubernetes features with minimal downtime.

• Unlock simplified automation with Unified SDK, providing consistent APIs, reducing setup complexity, and enabling seamless integration across vSphere Foundation components.
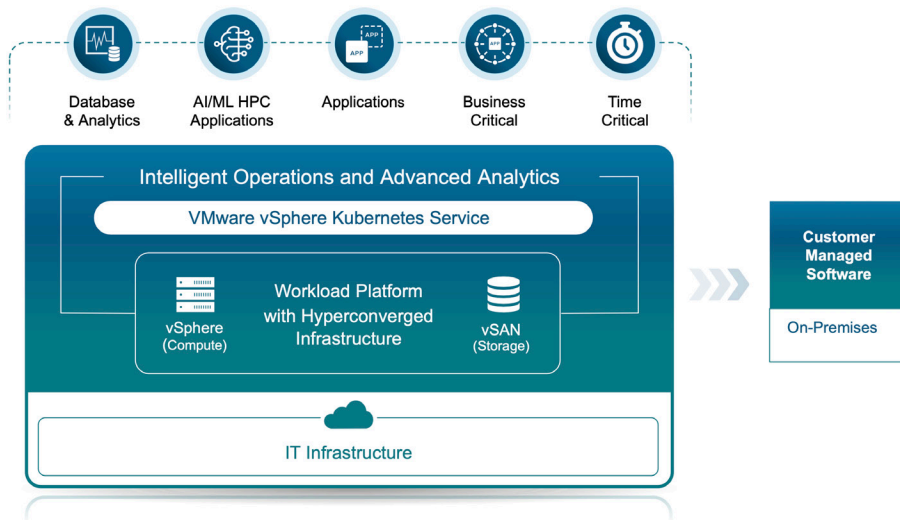

Figure 2: vSphere Foundation combines compute, storage, Kubernetes orchestration, and operations management into a single platform for managing both traditional and cloud-native workloads.

Next steps

1. Validate your business objectives and priorities.

2. Consider Advanced Services offerings to address specific objectives.

3. Model the potential impact, savings and outcomes.

Visit the VMware vSphere Foundation solution page to get started.

Elevate security

VMware vSphere Foundation delivers a secure-by-default infrastructure with advanced features to safeguard data and ensure business continuity for your organization.

- Enable agile security with Live Patching for ESX, ensuring critical patches are applied quickly and reducing exposure to vulnerabilities.

- Strengthen security with TLS 1.3 and FIPS compliance, ensuring strong encryption, improved data protection, and enhanced regulatory compliance.

- Deliver a more efficient, cost-effective and flexible disaster recovery solution by replicating VM-level snapshots across sites with vSAN Replication for VMs and containers.

CONFIDENTIALITY	INTEGRITY	AVAILABILITY
Protecting systems and data from unauthorized people and groups	Preventing modification of data by unauthorized groups and systems	Ensuring that data is available to authorized people when needed

Figure 3: The core tenets of information security.

Accelerate your business transformation with Advanced Services

Once you deploy vSphere Foundation, you can take advantage of additional game-changing solutions to address specific business needs.

- **VMware vSAN™** – Expand the capacity of your HCI with the premier modern storage software for vSphere Foundation, delivering high performance and scalability with robust security and lower cost.

- **VMware Live Recovery** – Proven solution for ransomware and disaster recovery with 75 percent faster resolution to downtime.

- **VMware Avi™ Load Balancer** – API-first and self-service driven platform providing load balancing, app security and analytics.

Speed your journey to IT infrastructure optimization

To learn more about how vSphere Foundation can help your organization boost operational efficiencies, supercharge workload performance, accelerate innovation, and elevate security, visit the VMware vSphere Foundation solution page.

vmware®

by **Broadcom**