

# 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.

## 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 management 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.

- Drive up to 40% lower server TCO by leveraging high-performance NVMe for memory expansion to increase workload density and reduce DRAM dependency.
- Slash vCenter maintenance windows to under 5 minutes to ensure rapid security compliance with zero operational friction and little to no service interruption.
- Scale instantly with automated host discovery and zero-touch imaging to eliminate deployment bottlenecks across distributed private cloud environments.
- Achieve up to 34% lower TCO and consolidate storage silos with high-performance, S3-compatible object storage built directly into the platform for unified management.

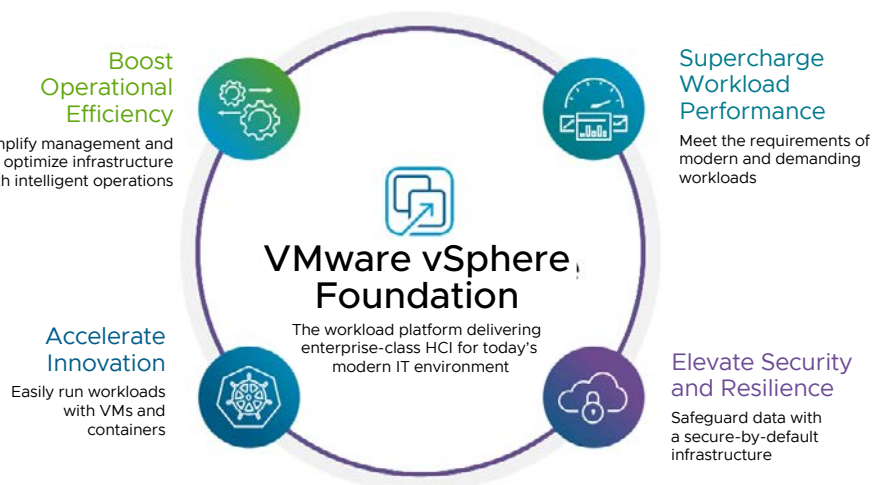


Figure 1: How vSphere Foundation helps optimize your IT infrastructure.



### Leader in G2 Enterprise Grid® Reports

vSphere is a leader in the G2 Enterprise Grid® Reports for Container Orchestration and Server Virtualization for Spring 2026, reflecting high user satisfaction and market presence.



### Overall Leader in Product Segments

vSphere achieved overall top ranking in the G2 Grid® Reports for Server Virtualization and Container Orchestration for Spring 2026, confirming its position as the industry-standard infrastructure platform.



### Momentum Leader

vSphere is a Momentum Leader for Server Virtualization and Container Orchestration for Spring 2026, ranking in the top 25% of category products based on high user trajectory and market growth.

### Supercharge workload performance

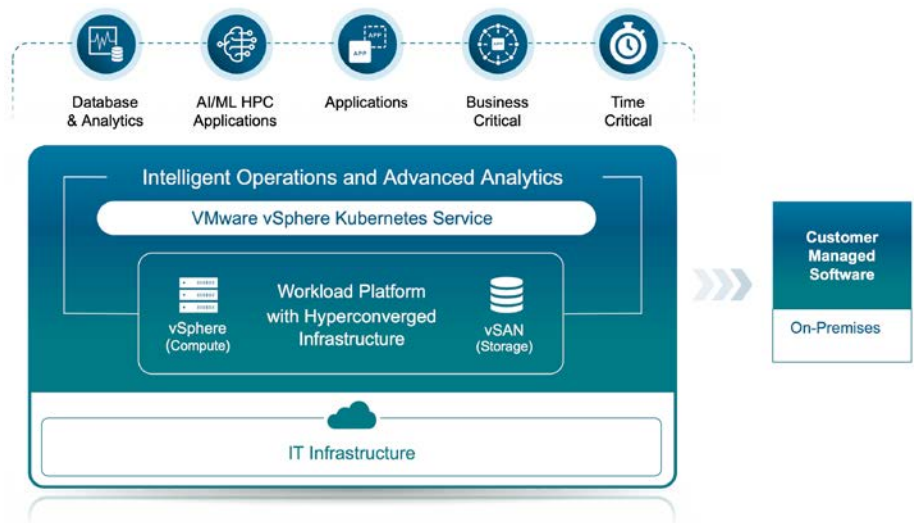
VMware vSphere Foundation helps your organization easily power the most demanding modern workloads by optimizing memory, scalability and efficiency.

- Accelerate host evacuations with up to 65% faster migration times by eliminating sequential bottlenecks to improve overall cluster responsiveness during maintenance.
- Reduce migration CPU overhead by up to 70% by offloading encryption tasks to Intel QAT hardware, ensuring secure workload mobility without performance penalties.
- Achieve up to 39% lower storage TCO compared to traditional external arrays by using performance-optimized, workload-aware data reduction for intensive applications.
- Maximize high-density hardware performance with up to 68% gains on four-socket systems via NUMA-optimized, topology aware scheduling to ensure predictable application responsiveness.

### 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 management, 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 and Resilience

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

- Eliminate maintenance windows for up to 80% of security updates by extending non-disruptive, live patching to modern, TPM-enabled server fleets.
- Automate daily protection and reduce administrative effort by up to 70% through automated VM tagging and flexible snapshot scheduling.
- Consolidate site-level resilience and lower recovery costs by up to 27% by replicating any primary storage into a unified, high-performance vSAN target.
- Orchestrate site-level availability with Site-Wide Maintenance Mode, enabling single-click updates for stretched clusters without manual evacuation or service impact.



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 for Cloud** – Confident cyber and disaster recovery to cloud isolated clean rooms with embedded network isolation, guided workflow automation and built-in validation tools.
- **Site Recovery Manager** – Fully orchestrated and automated disaster recovery at scale across on-premises VVF environments.
- **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](#).