

# Start Your Journey to a Hyperconverged Infrastructure

Let VMware vSphere Foundation be your guide



Navigating IT complexity can be a rocky road. **VMware by Broadcom is here to help.**

## Understanding the terrain

The number of workloads running across locations has exploded in recent years, and this trend is only going to continue.



**622 million**

**workloads running across public and private clouds by 2026<sup>1</sup>**

Today's organizations are struggling to deal with the increased costs, reduced productivity, and compromised security that IT complexity brings.



**41 percent**

By 2027, the number of enterprise containerized instances is expected to increase 4.5x at a CAGR of 41%.<sup>1</sup>

Thankfully, VMware vSphere<sup>®</sup> Foundation can help you successfully navigate past this complexity to reach the promised land of IT infrastructure optimization.

## How will you get there?

Streamlining and optimizing your IT infrastructure requires a solution that **delivers four essential elements:**



**1 Intelligent operations management** that helps maximize resources at scale.



**2 A high-performing infrastructure** that supports modern workloads and simplifies lifecycle management.



**3 A developer-friendly platform** that enables DevOps services and Kubernetes clusters.



**4 Security and compliance features** that help protect data and ensure business continuity.

This is where **VMware vSphere Foundation** comes in. It's the workload platform delivering enterprise-class hyperconverged infrastructure (HCI) to power your organization through **the four steps of IT infrastructure optimization.**

### Step 1: Boost operational efficiency



**Leverage intelligent operations management and analytics to simplify, optimize and scale your infrastructure.**

- Easily scale with multi-OEM vendor solutions for VMware vSAN<sup>™</sup> clusters.
- Accelerate deployment of VMware vSphere Foundation with automated workflows, pre-checks and management.
- Streamline storage management with proactive health monitoring.

### Step 2: Accelerate innovation



**Empower developers with self-service access, integrated Kubernetes runtime, and powerful automation.**

- Quickly deploy Supervisor Cluster and add advanced features and capabilities as needed.
- Enable independent Supervisor updates for faster access to new Kubernetes features.
- Deliver a consistent automation experience across VMware vSphere Foundation with standardized APIs and SDKs.

### Step 3: Elevate security



**Protect data and ensure business continuity with a secure-by-default infrastructure and advanced security features.**

- Perform fast, non-disruptive security patches with Live Patching for VMware ESX<sup>™</sup>.
- Enhance security and compliance with TLS 1.3 and FIPS-validated cryptographic modules.
- Streamline disaster recovery with asynchronous replication of VM-level snapshots across sites.

### Step 4: Supercharge workload performance



**Optimize memory, scalability and efficiency to power the most demanding modern workloads.**

- Maximize core utilization and boost performance with NVMe Memory Tiering.
- Support large workloads and deliver better scalability with optimized performance.
- Reduce downtime for GPU workloads with 6x faster vMotion.

## Partner with a proven leader



Your journey to IT infrastructure optimization requires a partner you can trust. **More than 300,000 organizations globally run more than 85 million workloads on VMware every day, including:**

**10**

of the TOP 10 global banks



**9**

of the TOP 10 best hospitals in the world



**19**

of the TOP 20 global retailers



**100%**

of U.S. federal agencies

Sources: Accuity, Rankings of Top World Banks, Newsweek, Best Hospitals, RLS News, Top 100 Retailers, 2020.

## Gain new levels of efficiency and performance

**6x faster vMotion** reduces downtime for GPU workloads.

**Up to 38% lower** memory and server TCO with NVMe Memory Tiering.

**Up to 58% faster** VM operations with HTTP/2 support in VMware vCenter.



## Go further with Advanced Services

Leverage additional solutions to address specific business needs.



### VMware vSAN

Expand the capacity of your HCI with the premier modern storage software for VMware vSphere Foundation.



### VMware Live Recovery

The proven solution for ransomware and disaster recovery with 75 percent faster resolution to downtime.<sup>2</sup>



### VMware Advanced Load Balancer

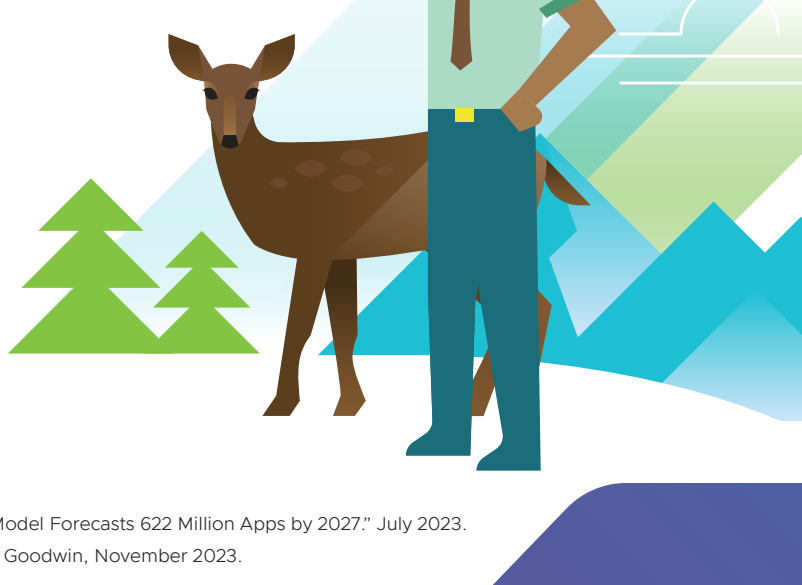
The API-first and self-service driven platform that provides load balancing, app security and analytics.

## Start your journey today.

Ready to optimize your IT infrastructure? Let's go.

Visit the [solution page](#)

to get started.



<sup>1</sup> Morgan Stanley, "What's New in the 'New Stack'? Our Updated Server Workload Model Forecasts 622 Million Apps by 2027," July 2023.

<sup>2</sup> IDC Business Value of VMware Live Recovery white paper, Megan Szurley and Phil Goodwin, November 2023.