

Lenovo Solution for VMware vSphere® with Tanzu

Improve resource utilization and shorten development cycles with containers

For CIOs in enterprises today, the pressure is on to build new revenue generating customer experiences and take advantage of innovations offered by the cloud. In order to accomplish this, organizations need to modernize their applications to support cloud native constructs and to provide self-service access to development teams.

New cloud native applications are being built on containers¹, with Kubernetes as the new as-a-Service control plane². Kubernetes orchestrates containerized application deployment, scaling and management across clusters of hosts.

The Lenovo Solution for VMware vSphere with Tanzu enables organizations to run and operate modern infrastructure with stability at scale. Running VMware vSphere with Tanzu on Lenovo ThinkAgile VX or ThinkSystem SR650 or SR630 servers, you can manage containers and virtual machines from the same control plane.

Enabling modernized workloads

VMware vSphere with Tanzu is the new generation of vSphere for containerized applications. This single, streamlined solution bridges the gap between IT operations and developers with a new kind of infrastructure for modern, cloud-native applications both on premises and in public clouds. vSphere with Tanzu is the fastest way to get started with Kubernetes workloads.

VMware Tanzu extends an enterprise-ready Kubernetes operating model across your data center and public clouds so you can run and manage your modernized workloads alongside your existing software. With Tanzu, you can build new, cloud native applications or rearchitect and containerize existing business critical workloads to run on Kubernetes for quick gains in security, resiliency, and manageability. You can also centrally manage, secure, and govern your clusters no matter where they reside, allowing you to gain efficiencies and optimize costs.

VMware Tanzu editions support different levels of Kubernetes integration in an organization. Each Tanzu edition is a superset of the one before it along a spectrum, giving you a clear path to add capabilities over time as needed.

- **VMware Tanzu Basic** simplifies operation of Kubernetes on-premises, putting cloud native constructs at the Virtual Infrastructure (VI) Admin's fingertips as part of VMware vSphere 7. It embeds Kubernetes in the VMware vSphere control plane and lets you get started with containerized off-the-shelf applications.
- **VMware Tanzu Standard** simplifies operation of Kubernetes for multi-cloud, centralizing management and governance for many clusters and teams across on-premises, public clouds and edge. It provides a consistent Kubernetes runtime and a multi-cloud Kubernetes management plane to operate and manage at scale on any cloud.

Highlights

- Run VMs and containers side-by-side on the same platform and support containerized off-the-shelf applications
- Enable central IT to embrace containers and provide operators with control of policy and security
- Provide developers self-service access to resources (within guidelines that meet IT requirements)

Solution Infrastructure

ThinkAgile VX Series are VMware vSAN-based hyperconverged servers with compute, storage and virtualization co-located on a single node. The VX Series enables you to dramatically simplify your server, storage and virtualization deployments and pool your resources into a single virtualized infrastructure for more flexible and efficient utilization and management.

The ThinkAgile VX Series is available in several models. Each is preconfigured, pretested, and optimized to provide the simplest way to bring a new VMware hyperconverged environment online. If you have an existing VMware environment, the VX Series can integrate into it easily.

The solution can also run on the ThinkSystem SR630 V2 or SR650 V2, 1U and 2U 2-socket servers that provide extensive flexibility to fit almost any customer environment.

All Lenovo ThinkSystem servers are high performance systems, consistently holding numerous world performance benchmarks. Engineered for always-on productivity, ThinkSystem servers are consistently ranked #1 in x86 server reliability³, and consistently rank high in x86 server customer satisfaction.

Complementary Offerings

Lenovo XClarity™ Administrator is a centralized resource management solution for Lenovo infrastructure that captures proactive platform alerts, enabling administrators to migrate workloads or replace failing components without incurring downtime. XClarity Administrator enjoys tight integration with VMware vCenter, allowing administrators to view, monitor, and manage Lenovo infrastructure from the vCenter management console and vSphere web client.

Why Lenovo

Lenovo is a US\$60 billion revenue Fortune Global 500 company serving customers in 180 markets around the world. Focused on a bold vision to deliver smarter technology for all, we are developing world-changing technologies that power (through devices and infrastructure) and empower (through solutions, services and software) millions of customers every day.

For More Information

To learn more about the Lenovo Solution for VMware vSphere with Tanzu, please contact your Lenovo Sales Representative or Business Partner, or visit: www.lenovo.com/vmware



¹ Container usage is projected to grow at 62% CAGR through 2023 - IDC, Gary Chen & Kuba Stolarski, Container Infrastructure Software Market Assessment: x86 Containers Forecast, 2018–2023, April 2020, Doc #US46185620

² 86% of containerized apps are on Kubernetes - The State of Container and Kubernetes Security, Winter 2020, StackRox

³ ITIC Reliability Study, www.lenovopress.com/lp1117

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