

Lenovo Solution for

VMware Cloud Foundation on ThinkAgile VX

Lenovo

Providing simplified operations across hybrid cloud environments

IT organizations are dealing with increased complexity of new application architectures with workloads deployed across data center, cloud, and edge environments. By deploying and managing workloads on hybrid cloud solutions built on VMware Cloud Foundation™, you get consistent infrastructure and operations across private cloud, public cloud, and edge environments. With the Lenovo Solution for VMware Cloud Foundation on ThinkAgile VX, you can manage both container-based workloads and traditional VM-based workloads on a single platform. And you can increase business agility and responsiveness; reduce complexity, cost, and risk; and deliver a cloud operating model for all types of applications.

Enabling modernized workloads

VMware Cloud Foundation (VCF) brings full-stack integration of the HCI infrastructure layer together with native Kubernetes capabilities built into the stack to provide an automated, turnkey hybrid cloud solution. Move applications to the cloud or back on premises without refactoring. Security and compliance policies are linked to each application, which enables consistent adoption wherever workloads are deployed and managed.

VCF helps organizations modernize their infrastructure to be more agile - to shift from siloed infrastructure-oriented operations to a service-broker capability. Highly virtualized and hyperconverged compute, storage, and network infrastructure can be automated and orchestrated together the same way on premises as in public cloud and edge environments. On-demand self-service delivery can be provided for developers and line-of-business application owners.

VCF provides Virtual Infrastructure (VI) admins with unified visibility of virtual machines (VMs), containers, and Kubernetes clusters all within vCenter Server. By consolidating Kubernetes clusters & VM workloads on the Cloud Foundation platform - managed with existing vSphere tools, processes and skillsets - organizations will recognize improved TCO. That same platform can extend across the Hybrid Cloud to deliver the portability of vSphere-based workloads to modern applications.

Highlights

- Manages both virtual machine (VM) and containerized applications
- Delivers a single operating model across data center, public cloud, and edge environments
- Allows IT teams to shift to a cloud operating model for faster, lower cost, and reduced risk service delivery for all types of applications



Powered by ThinkAgile VX

Lenovo ThinkAgile VX Series hyperconverged systems are the ideal platform for VMware Cloud Foundation. ThinkAgile VX systems are based on VMware vSAN, providing virtualization of compute and storage resources through familiar VMware tools and processes, and management of the ThinkAgile VX systems can be accomplished through VMware vCenter.

From deployment through end of life, Lenovo ThinkAgile VX Series integrated systems are simple to operate.

ThinkAgile Advantage Services are provided with all ThinkAgile VX integrated systems. Lenovo Services will set up and configure your new solution and provide any training you need to get the system operational. Your VX Series will be up and running productively in hours instead of days or weeks.

If you prefer to set up on your own, ThinkAgile VX integrated systems are shipped from the factory with the hardware configured and software installed. When placed in your network, the system will auto-discover an existing vSAN cluster to join or create a new cluster to which other ThinkAgile VX nodes can be added.

Certified firmware updates are provided throughout the life of the ThinkAgile VX integrated systems via vSphere Lifecycle Manager (vLCM). vLCM speeds deployment, simplifies patching and updating software, and offers task automation to free up valuable time for your IT personnel.

Management of the entire solution is accomplished through a single pane of glass with Lenovo XClarity Integrator for VMware vCenter and VMware vSphere. The integrated management offering captures proactive platform alerts, enabling administrators to migrate workloads or replace failing components without incurring downtime.

If you need support, Lenovo ThinkAgile Advantage gives you a direct phone line to a team of experts who support only ThinkAgile solutions. The experts will rapidly diagnose any hardware or software issues and remain with you as the single-point-of-contact throughout the entire support process.

Reliable, High Performance Platform

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.

All Lenovo ThinkAgile VX Series models are high performance systems, holding numerous world performance benchmarks. Engineered for always-on productivity, ThinkAgile systems are ranked #1 in [x86 server reliability](#), and consistently rank high in x86 server customer satisfaction.



Figure 1: Lenovo ThinkAgile VX systems



As A Service Option

All ThinkAgile VX Series systems are available as Infrastructure As A Service (IaaS) solutions with Lenovo TruScale. It provides the simplicity and flexibility of the cloud with infrastructure on premises. TruScale simplifies the procurement, deployment and management of modern IT infrastructures. It gives you the flexibility, security and control you need to deliver the performance and capabilities that drive growth and competitive advantage.

Get all the power and strategic advantage of the latest data center hardware through a pay-as-you-go business model. Easily scale without incremental capital investments and focus more on your bigger picture thanks to included 24/7 proactive monitoring, management, and services.

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 VMware Cloud Foundation with ThinkAgile VX or other Lenovo solutions with VMware, please contact your Lenovo Sales Representative or Business Partner, or visit:

www.lenovo.com/vmware

Refresh and modernize your IT infrastructure with Lenovo ThinkAgile VX HCI powered by VMware vSAN

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