

Accelerate your virtual desktop deployments

With Cisco HyperFlex Systems and VMware Horizon 7



Do you want to keep up with digital business transformation and deliver the tools your company needs—desktops and applications—at a moment's notice?

You can respond to user needs quickly and efficiently with a hyperconverged infrastructure platform-based solution: Cisco HyperFlex™ systems with VMware® Horizon® 7. This agile, efficient, and adaptable solution helps you to be the hero, with a pretested design that reduces risk.

Benefits

- Agile
- Efficient
- Adaptable
- Reduced risk

Agile

Deliver what your users need, when they need it, whether it's persistent or nonpersistent virtual desktops, full desktops, or application streaming. With the solution's real-time deployment capabilities, through the VMware Horizon Just-in-time Management Platform (JMP), you can deliver a new personalized desktop and published application instantly, every time a user logs in. The solution helps reduce end-point security concerns by destroying the desktops as soon as the user logs out. And by pooling the required infrastructure, you can drastically lower storage costs (by up to 30 percent) while delivering a truly stateless desktop with the personalization and performance that your users expect.

Cisco HyperFlex systems enable you to be more agile and responsive to user demands. When the time comes to increase the underlying infrastructure, you can do so quickly and easily. The system automatically discovers and configures the new hardware and adds it to the cluster with just a few clicks.

Efficient

You gain efficiency through a simplified architecture, which uses fewer components and helps reduce capital expenditures (CapEx). Cisco HyperFlex systems combine software-defined computing in the form of Cisco Unified Computing System™ (Cisco UCS®) servers with Intel® Xeon® processors, software-defined storage with the powerful Cisco HyperFlex HX Data Platform software, and software-defined networking with Cisco UCS fabric that integrates smoothly with the Cisco® Application Centric Infrastructure (Cisco ACI™) platform. Together, these elements comprise Cisco HyperFlex systems: an adaptive infrastructure that easily integrates into your existing infrastructure. The result is a cluster that comes up and configures itself in an hour or less, and that scales resources independently to closely match your application resource needs.

The capability to manage this solution from a common management platform can increase efficiency and reduce operating expenses (OpEx). The unified management, through VMware vCenter Web Client with the Cisco HyperFlex Web Client plug-in, makes initial deployment and ongoing lifecycle management easy.

The user experience is excellent, with response times of less than a second, excellent mobile support, and graphics support using NVIDIA virtual GPU technology. User data is automatically optimized with Cisco HyperFlex HX Data Platform compression and deduplication, aligning infrastructure with application requirements. And user data is easily backed up helping ensure user productivity.

Adaptable

You choose. This solution supports mobile, remote, and centralized environments. It offers simple and easy physical and virtual resource expansion and contraction, allowing you to scale resources up and out without having to adjust your networking infrastructure or interrupt cluster operations. This capability gives you an environment in which you can pay as you grow. And you can grow in small increments that don't break your budget or force you into supporting infrastructure that you aren't using.

Reduced risk

Cisco and VMware implement end-to-end deployment best practices that are tested and validated by Cisco through the Cisco Validated Design (CVD) program. The resulting recipe-like documents take all the guesswork out of deployments. These validated designs reduce risk and accelerate the deployment of your initial and subsequent virtual desktop solutions.



Cisco HyperFlex Systems

Cisco HyperFlex systems, powered by Intel Xeon processors, deliver a new generation of more flexible, more scalable, enterprise-class hyperconverged solutions. We deliver a complete solution based on a next-generation data platform—one that smoothly integrates into the data center you have today. In contrast to first-generation products, our solution includes an integrated network fabric and powerful data optimization capabilities that unlock the full potential of hyperconvergence for a wider range of workloads and use cases. Our solution is faster to deploy, simpler to manage, easier to scale, and ready to provide a unified pool of resources to power desktop and application virtualization as your business needs dictate. You can harness these resources with simplified, centralized management that is integrated, not isolated. You can deploy this solution wherever you need it, from central data center environments to remote locations and edge-computing environments (Figure 1).

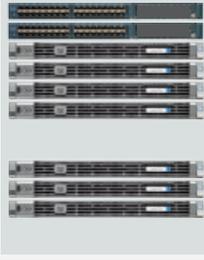
400 Seats		550 Seats		700 Seats		850 Seats		1000 Seats		1500 Microsoft Windows 10 Desktops 1800 RDS Sessions		2000 Microsoft Windows 10 Desktops 2400 RDS Sessions	
Starter Kit Only	Starter Kit + 1 Expansion Node	Starter Kit + 2 Expansion Nodes	Starter Kit + 3 Expansion Nodes	Starter Kit + 4 Expansion Nodes	Starter Kit + 4 Expansion Nodes	Starter Kit + 4 Expansion Nodes	+4 Cisco UCS B200 Compute Nodes	Starter Kit + 4 Expansion Nodes	+8 Cisco UCS B200 Compute Nodes				
													
Minimum 4-Node Starter Fully Resilient for Single Node Failure (N+1)				Linear Scaling with Expansion Pack 150 VDI Seats per Expansion Pack				Validated with Login VSI 4.0 and Cisco Hyperflex HX Data Platform					

Figure 1. Cisco HyperFlex Systems and VMware Horizon 7 easily scale as your business needs change

For more information

Read the Cisco Validated Designs:

- [Cisco HyperFlex with Horizon 7 for 4400 users](#)
- [Cisco HyperFlex with Horizon 7 for 2000 users](#)

For information about Cisco HyperFlex Systems, visit cisco.com/go/hyperflex

For information about VMware Horizon, visit vmware.com/products/horizon.html

To find all Cisco Validated Designs with Horizon 7 use our CVD navigator tool, visit cisco.com/go/vdi-cvd

For more information about GPU-accelerated VDI, visit nvidia.com/cisco-vdi



VMware Horizon 7

With VMware Horizon 7, you can provide a consistently superior end-user experience across locations, media, and connections to improve workplace productivity. VMware Horizon 7 goes beyond a simple virtualized desktop to provide end users with one place to securely access all their desktops, applications, and online services from any device, everywhere. With VMware Horizon 7, you can take advantage of the closed-loop management and automation as well as tight integration with the software-defined data center built on Cisco HyperFlex systems. This integration helps you easily deliver and protect all the Microsoft Windows and Linux desktops, applications, and online resources users want, at the speed they expect, with the efficiency your business demands.



Everyone gets to be a hero

With Cisco HyperFlex and VMware Horizon 7 solutions, you now have complete end-to-end infrastructure visibility to support your virtual desktop environment so that you can better support your users. When your users are well supported, they can be more efficient in their work, and everyone gets to be a hero.

