

Supercharge Virtual Desktop Graphics

With Cisco solutions for HCI with NVIDIA GPUs, and VMware Horizon



Transformative



Hyperconverged



Powerful



Simplified

Transform your users' experience

With Microsoft's ending of support for Windows 7 looming in January 2020, migrating to Microsoft Windows 10 is essential. Each successive version of Microsoft Windows has been graphically more intensive. For example, Windows 10 requires a 50 percent increase in graphics processing compared with Windows 7. And as history has shown, as both the Windows operating system and its Microsoft Office applications evolve, the need for a superior graphics experience will continue to grow.

While this provides an excellent user interface, Windows 10 may exceed your current desktop graphics capabilities. It's time to consider Cisco virtual desktop solutions that can support both the computing and graphical needs of your users while also securing and simplifying your desktop IT department's tasks. The choice of Cisco HyperFlex™ systems or Cisco UCS® vSAN Ready Node Solutions, both with NVIDIA graphics processors running VMware Horizon, delivers the superior graphics experience your users expect.

Highlights

- Deliver outstanding user experience
- Your choice of hyperconverged infrastructure (HCI) solutions
- Reduce costs and improve manageability, security, and scalability
- Radically simplify management of virtual desktops across your enterprise

Modern Apps increase GPU demands

Common office applications also have increased graphics requirements when migrating from Windows 7 to Windows 10

- Google Chrome from 36% to 49%
- Microsoft Excel from 53% to 75%
- Mozilla Firefox from 59% to 66%
- Microsoft PowerPoint from 64% to 91%
- Microsoft Outlook from 85% to 98%

[\(Read the Lakeside Software report\)](#)

For more information

- [Cisco Hyperconverged Infrastructure](#)
- [VMware Horizon](#)
- [NVIDIA Virtual GPU](#)

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Modern solutions

We offer a choice of two hyperconverged solutions, Cisco HyperFlex Systems and Cisco UCS vSAN Ready Node solutions.

Cisco HyperFlex systems

Cisco HyperFlex systems with VMware Horizon 7 combine computing, storage, and networking resources in a simplified, easy-to-use, all-in-one platform. These systems bring the pay-as-you-grow economics of the cloud to on-premises virtual infrastructure, so you can gain new levels of agility, efficiency, and adaptability. With an integrated network fabric, GPU- and CPU-only nodes to supercharge graphics, powerful data optimization, and unified management, Cisco HyperFlex systems bring the full potential of hyperconvergence to your desktop virtualization deployments.

Cisco UCS vSAN ReadyNode solutions

Based on Cisco UCS, Cisco UCS vSAN Ready Node is a hyperconverged infrastructure platform that is fully integrated with VMware vSphere. VMware vSAN aggregates locally attached disks of hosts that are members of a vSphere cluster to create a distributed shared storage solution. VMware vSAN provides scale-out storage within a VMware Horizon 7 environment, enabling a grow-as-you-go model, with scaling up by adding disk drives in each host, or with scaling out by adding hosts to the cluster.

NVIDIA graphic processors

NVIDIA is virtualizing all GPU services. The NVIDIA GRID virtual GPU allows multiple virtual desktops to share a single physical GPU or the assignment of one or more physical GPUs can be dedicated to a single virtual workstation. This allows you to power graphics-hungry operating systems and applications and deliver an exceptional user experience.

VMware Horizon

VMware Horizon supports virtual Windows desktops, shared server desktop sessions, and applications through a single platform. You can transform your static desktops into secure digital workspaces that may be delivered on demand. It enables you to streamline management and easily entitle end users through a single platform. It is a desktop and application delivery architecture that delivers desktops in seconds, reduces storage and operational costs with truly stateless desktops, and help ensure painless application packaging and installation. Using a single platform based on the industry's leading hypervisor, VMware vSphere, VMware Horizon helps ensure that power users and designers have a graphics experience that is equivalent to their experience when using dedicated hardware—delivered with the cost-effectiveness that only GPU virtualization can provide.