

# Simplify and Accelerate Your Virtual Desktop Infrastructure Deployments

Solution Brief  
May 2016



With Cisco HyperFlex Systems



## Highlights

### Agile

- Use simple-to-deploy and easy-to-manage Cisco HyperFlex™ Systems for your virtual desktop infrastructure (VDI) deployments.
- Simplify deployment of your VDI environments with a single hyperconverged solution that is up and running in less than an hour.
- Achieve consistent performance that reduces your daily management challenges.

### Efficient

- Deploy a flexible cluster configuration that scales out linearly as you expand your VDI environment.
- Reduce your upfront investment.
- Deliver persistent or nonpersistent virtual desktops, full desktops, and application streaming.

### Adaptable

- Increase virtual desktop density and reduce costs with a solution that lets you independently scale computing or storage capacity.
- Optimize your use of storage resources with a system that uses always-on deduplication and compression.
- Reduce capital expenditures by eliminating the need for expensive SAN solutions.

If complexity keeps you from using virtual desktop infrastructure (VDI), look no further. Cisco HyperFlex™ Systems deliver the adaptive VDI environments you need.



Cisco UCS with  
Intel® Xeon®  
Processors

Implementing VDI environments is turning out to be more complicated than many companies expected. The high initial costs, ineffective scaling, and unpredictable performance of network storage often inhibit the adoption of VDI technology and keep you from benefiting from desktop efficiency. Cisco HyperFlex Systems adapt to your evolving environment. With simplicity, rapid deployment, and flexible scaling, you can start small and grow your VDI deployments with ease.

## Hyperconvergence Makes It Possible

Cisco HyperFlex Systems, powered by Intel® Xeon® processors, combine computing, storage, and networking into a simplified, easy-to-use 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, powerful data optimization, and unified management, Cisco HyperFlex Systems bring the full potential of hyperconvergence to your virtual desktop infrastructure deployments. These solutions are fast to deploy, simple to manage, and easy to scale, and they arrive ready to provide you with a unified pool of infrastructure resources to power applications as your business needs dictate.

## Agility and Simplified Operations

For your business to be agile, your VDI solutions must be easy to deploy and manage. The elements in Cisco HyperFlex Systems are delivered as a preintegrated cluster that is up and running in an hour or less. Integrated management detects any component plugged into the system, making the system self-aware and self-

## Simplify and Accelerate Your Virtual and Desktop Infrastructure Deployments with Cisco HyperFlex Systems

integrating, helping it adapt quickly to changes in hardware configuration. You can move a node from the loading dock and add it to your cluster simply by plugging in network and power cables—no manual node configuration is required. Cisco Unified Computing System™ (Cisco UCS®) service profiles prepare every aspect of a node's identity, configuration, and connectivity, increasing efficiency and security and reducing deployment time. You no longer need to configure and manage logical unit numbers (LUNs) and volumes, and the system delivers consistent performance that reduces daily management challenges.

The systems integrate easily into your environments and operation processes. Cisco UCS management handles all of a cluster's hardware management functions and is accessible through a VMware vSphere plug-in, providing a single point of control for the physical infrastructure, the data platform, and the virtualization layer.

### Efficiency and Flexible Scaling

Cisco HyperFlex Systems provide a cluster configuration that scales resources independently to closely match the resource needs of your VDI environments (Figure 1). You can start small and support tens or hundreds of users and easily and cost-effectively scale to support thousands. After a system is deployed, you simply add

nodes to the cluster, and data is automatically rebalanced across all shared resources. You can easily tailor the configuration to support persistent and nonpersistent desktops and deliver full desktop infrastructure or application streaming depending on the needs of your workforce.

### Adaptable, Optimized Infrastructure

With Cisco HyperFlex Systems, you can reduce your data footprint and optimize your infrastructure cost. Unlike VDI solutions that use traditional SAN or network-attached storage (NAS) infrastructure, Cisco HyperFlex Systems take a different approach, combining solid-state disk (SSD) drives and spinning disks (hard-disk drives [HDDs]) into a single distributed, multitier, object-based data store. An innovative caching tier stores frequently and recently used information to accelerate performance. In addition, native inline deduplication and compression are always on to help ensure that your

storage resources are used optimally without adversely affecting virtual desktop and application performance.

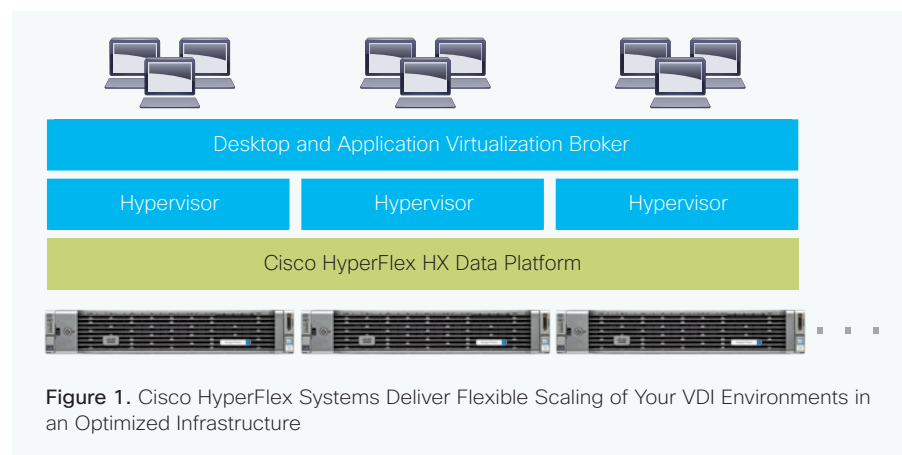
### Get Started with Cisco Solution Bundles

Cisco HyperFlex Systems are available as packaged bundles. With these solutions, you can easily purchase and deploy the VDI solutions you need to deliver anytime, anywhere access to desktops and applications and make the most of your IT resources.

### For More Information

For more information about Cisco Hyperconverged Infrastructure solutions, visit <http://www.cisco.com/go/hyperflex>.

For more information about Cisco desktop and application virtualization solutions, visit <http://www.cisco.com/go/vdi>.



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