



Radically Simplify Desktop Virtualization for Remote and Branch Offices

Nimble Storage SmartStack with Cisco UCS Mini

It's a mobile world. To be efficient, your employees need to have fast and easy access to their desktops at any time, any place, and on any device. But how do you balance user needs with corporate needs to secure data assets, manage capital and operational costs, and efficiently deploy, manage, and maintain remote desktops?

What if you could deploy your favorite virtual desktop solution in remote and branch offices and for small enterprise-edge computing needs, close to your employees, for an excellent user experience? Imagine using policies to deploy, manage, and secure your solution with centralized management tools. Imagine increasing the efficiency of your employees and IT staff at an affordable price. All this can be accomplished with Nimble Storage SmartStack for Remote-Office and Branch-Office (ROBO) Desktop Virtualization with Cisco UCS® Mini and your preferred desktop virtualization software from Citrix or VMware.

Reduced Risk

Nimble Storage SmartStack is an integrated infrastructure platform that is built on best-in-class technologies from Cisco and Nimble Storage. Based on prevalidated reference architecture, the SmartStack solution portfolio helps you accelerate deployments and eliminate the risk associated with custom solutions. The solution includes Cisco UCS Mini and Nimble Storage CS-Series storage (Figure 1). This solution has been validated with Citrix XenDesktop, Citrix XenApp, and VMware Horizon (with View) to give you a choice of virtual desktop environments. This prescriptive design for deployments, starting with support for up to 500 virtual desktops, eliminates the guesswork involved in planning, sizing, and provisioning infrastructure for ROBO and other virtual desktop and shared virtual desktop (Citrix XenApp) edge-computing environments.

Superior Price-to-Performance Ratio

Cisco UCS Mini unifies server and networking capabilities directly within the Cisco UCS Mini chassis, enabling the Nimble Storage SmartStack solution to deliver computing, storage, and networking into a single, easy-to-manage, compact solution. Nimble Storage Adaptive Flash technology efficiently delivers higher performance and adaptability in a much smaller footprint than traditional hard-disk-drive (HDD) infrastructure. With this technology, you can optimize performance for a wide range of application requirements—accommodating changing

Benefits

- Reduced risk
- Choice of desktop virtualization software
- Superior price-to-performance ratio
- Simplified deployment and management
- Flexible scalability
- Enhanced protection and availability

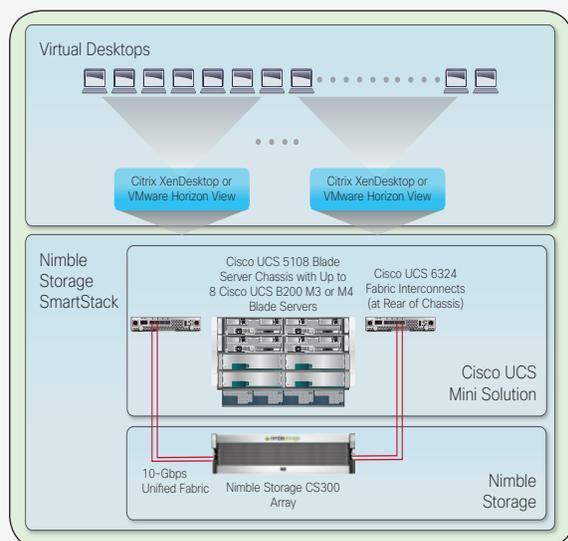


Figure 1. Nimble SmartStack for ROBO Desktop Virtualization with Cisco UCS Mini Starts with Four Cisco UCS B200 M3 or M4 Blade Servers Supporting Up to 500 Virtual Desktops and Can Easily Be Scaled to Eight Blades in a Single Chassis

For More Information

- [Nimble Storage desktop virtualization solutions](#)
- [Nimble Storage SmartStack](#)
- [Cisco UCS Mini](#)
- [Cisco® reference architecture for Citrix XenDesktop](#)
- [Cisco reference architecture for VMware Horizon View](#)

needs without expensive major equipment upgrades as your needs change. This solution gives you data center computing and storage power with a reduced number of components and management points for a lower total cost of ownership (TCO).

Boost Efficiency

Nimble Storage SmartStack for ROBO Desktop Virtualization with Cisco UCS Mini makes both your remote staff and your centralized IT staff more efficient. By deploying an optimized desktop virtualization solution onsite at remote or branch offices rather than in your central data center, you can deliver a more predictable end-user experience by eliminating network-dependent performance challenges between sites. After the hardware infrastructure is in place, your IT staff can automate and orchestrate deployment and management of the entire solution with Cisco UCS Director. This capability significantly reduces the operating costs associated with deployment of virtual desktop infrastructure local to your personnel.

Elastic Performance and Capacity

This solution is optimized for desktop virtualization in ROBO deployments. It also uses the flexible scalability of Cisco UCS Mini and Nimble Storage CS-Series arrays to adapt to growing needs without downtime. With the scale-to-fit capabilities of Cisco and Nimble Storage technologies, you can independently and nondisruptively increase performance and capacity.

With Nimble Storage CS-Series storage, you can upgrade controllers, increase cache size, and add capacity as needed. And you can scale the Cisco Unified Computing System™ (Cisco UCS) simply by adding blade or rack servers. The system's stateless computing model, implemented with Cisco UCS service profiles, automates and accelerates server provisioning. The system's centralized fabric interconnects establish a scalable I/O architecture that doesn't have to be redesigned as your needs grow. By adopting a modular building-block approach with unified computing, fabric, storage, and virtualization integrated into a single architecture, your organization can scale its deployments as needs change.

Enhanced Data Protection

Nimble Storage's native snapshot technology enables frequent and fast data protection, and simplified recovery. In addition, Nimble Storage's replication capabilities can efficiently send data snapshots to your data center for disaster-recovery purposes.

Excellent ROBO Virtual Desktop Solution

With Nimble Storage SmartStack for ROBO Desktop Virtualization with Cisco UCS Mini, you can deploy your favorite virtual desktop solution in remote and branch offices, close to your employees, to give them an excellent user experience. This solution enables your IT staff to deploy, manage, and protect the entire solution from your data center to increase the efficiency of your employees and IT staff at an affordable price.

