

# Lenovo Client Virtualization Validated Design

for VMware Horizon with DS6200

**Simplify Client Virtualization on Hybrid Cloud Deployment with SAN Storage**

## Maximize the Benefits of a Lenovo Infrastructure with Client Virtualization

Today's business and IT leaders know that a client virtualization solution can help their organization meet multiple challenges, including ever-rising IT costs, managing data security and compliance on mobile devices, increased complexity of maintaining remote client devices, and the need for flexibility and global availability of compute resources.

The Lenovo Client Virtualization Validated Design for VMware Horizon with DS6200 helps your organization meet these business requirements by centrally managing the desktop image within the corporate IT environment rather than at the remote worker or office location. With user data, user profiles and application data files on centralized servers, data center security and manageability are extended down to the user resources. Users have anywhere, anytime, secure access to data and applications from any device, including tablets and smartphones.

The combination of Lenovo Client Virtualization and VMware Horizon provides a flexible client virtualization solution that helps minimize complexity, improve user productivity and reduce costs.

## A Complete, Validated Solution

VMware Horizon delivers multiple advantages for organizations implementing Lenovo Client Virtualization, including choice of delivery with support for private cloud and cloud-hosted services, as well as comprehensive image management across combinations of desktop and mobile devices. Hybrid delivery through Horizon Desktop as a Service (DaaS) provides organizations with choice when it comes to services for end users. VMware's closed-loop management and optimization for the software defined data center enables organizations to truly extend the power of virtualization from the data center to devices.

By using the Lenovo Client Virtualization solution, businesses can keep their data secured inside their own data center, accessible only by authorized personnel. With this solution, no data is stored on a separate host that could be lost or stolen. Additionally, client virtualization desktops are hosted inside a business data center with up-to-date data. Desktop users can securely connect to applications in the data center from local and remote locations from PCs, mobile clients, tablets and thin clients.

### Highlights

- Provides a complete solution with all the hardware and software components to service your needs.
- Scaling from several dozen users to a several thousands users, Lenovo client virtualization solutions can address your current and future needs.
- Supports client virtualization usage from typical office users up to high-end 3D graphics power users.

Lenovo ThinkSystem SR650, SR630, SD530 and SN550 servers for a high capacity, high performance, and cost effective client virtualization solution

Lenovo™

vmware®



Lenovo ThinkSystem SR650 Server, ThinkSystem SR630 Server and ThinkSystem DS6200 Storage Array

## Architectural Overview

This architecture may reside on either the Lenovo ThinkSystem SR650, ThinkSystem SR630 or ThinkSystem SD530 rack servers. This solution may also be deployed on the ThinkSystem SN550 blade server when installed in the Lenovo Flex System chassis. These rack based servers and Flex System based server deliver the performance and stability required for business-critical cloud workloads. Using the latest Intel processors, each of these servers are extremely powerful, flexible and support large DDR4 memory arrays.

For SAN storage, this architecture utilizes the Lenovo ThinkSystem DS6200. Designed for speed within a cost-optimized architecture, the DS6200 delivers superior cost/GB and \$/IOP without compromising performance. Each DS6200 controller can hold up to 24x 2.5-inch HDDs/SSDs internally. For growth and additional capacity, up to nine expansion units may be added to the DS6200 starter node. This enables the deployment of up to 240 drives across 10 enclosures.

This client virtualization solution also features the Lenovo ThinkSystem G8272 10Gb Ethernet switch to support the data network. It is an enterprise class Layer 2 & Layer 3 full featured switch that delivers line-rate, high bandwidth switching, filtering, and traffic queuing without delaying data. The G8272 also supports integration into VMware NSX™ VXLAN based virtual networks.

## Why Lenovo

Lenovo is a leading provider of x86 servers for the data center. Featuring rack, tower, blade, dense and converged systems, the Lenovo server portfolio provides excellent performance, reliability and security. Lenovo also offers a full range of networking, storage, software, solutions, and comprehensive services supporting business needs throughout the IT lifecycle. With options for planning, deployment, and support, Lenovo offers expertise and services needed to deliver better service-level agreements and generate greater end-user satisfaction.

## For More Information

To learn more about the Lenovo Client Virtualization Validated Design for VMware Horizon with DS6200, contact your Lenovo Business Partner or visit:

[www.lenovo.com/systems/solutions](http://www.lenovo.com/systems/solutions)

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