

Lenovo Validated Design

for VMware vCloud Suite

Lenovo™

Simplify Hybrid Cloud Deployment with SAN Storage

Deploy a Cost effective Private and Hybrid Cloud

Virtualized speed and scalability are vital to meeting ever changing business needs and maintaining an edge in the market. VMware vCloud Suite provides a comprehensive software platform needed to build and run either a private or hybrid cloud infrastructure. This solution delivers virtualized infrastructure services for compute, network, security, and availability. These services include built-in intelligence to automate the on-demand provisioning, placement, configuration and control of applications that are based on defined policies.

The Lenovo Validated Design for VMware vCloud Suite is a solution with best practice documentation – including requirements, architectural overview, operational model, performance and sizing information, and bill of materials configurations – to jump start businesses to a well-orchestrated private or hybrid data center. Integrating, configuring, and testing end-to-end software and hardware technologies means administrators can spend less time worrying about infrastructure and focus more on enabling innovation.

Create an Agile and Resilient Cloud

This solution is based on a reference architecture that provides all the components needed to build and run a vRealize Hybrid cloud. This approach delivers an infrastructure with built-in intelligence to automate provisioning, placement, configuration, and control of apps for an end-to-end infrastructure based on defined policies. Business can transform their data center infrastructure into an agile and resilient cloud, delivering the features of an enterprise public cloud. With VMware vCloud Suite combined with Lenovo ThinkSystem products and services, Lenovo can deliver a leadership hybrid cloud solution with the flexibility and virtual machine orchestration that enable businesses to:

- Transform their internal IT into an agile and resilient cloud, delivering the features of public cloud within the walls of the enterprise
- Deliver a hybrid cloud solution with flexibility, automated provisioning and virtual machine orchestration
- Rapidly scale on demand with VMware vRealize integrated with Lenovo XClarity software

Highlights

- Provides best practice guidance for deploying Lenovo hardware and Lenovo XClarity foundation software with the VMware vCloud Suite architecture for an agile hybrid cloud solution with end-to-end deployment and management from familiar panes of glass
- Includes an innovative, cloud-optimized data center infrastructure featuring Lenovo ThinkSystem servers, Lenovo ThinkSystem storage and Lenovo ThinkSystem Ethernet networking equipment
- Enables rapid transformation into a services-oriented data center through an affordable, resilient, and powerful industry-leading cloud solution

Lenovo ThinkSystem data center products for high capacity, high performance Cloud platforms



ThinkSystem 650 Server, ThinkSystem 630 Server and ThinkSystem DS6200 Storage



Architectural Overview

At the core of this architecture reside the Lenovo ThinkSystem SR650 rack server and ThinkSystem SR630 rack server. This solution is also available deployed on the ThinkSystem SN550 blade server when deployed 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 three servers are extremely powerful, flexible and support large DDR4 memory arrays.

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

This cloud solution also features the Lenovo ThinkSystem G8272 10Gb Ethernet switches to support the data network. It is an enterprise class Layer 2 and Layer 3 full featured switch that delivers line-rate, high bandwidth switching, filtering, and traffic queuing without delaying data. The ThinkSystem 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 Validated Design for VMware vCloud Suite, contact your Lenovo Business Partner or visit:

www.lenovo.com/systems/solutions

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