



## Solution Brief

# VMware vSAN™ ReadyNodes for client virtualization from Dell

Desktop and app virtualization solutions with software-defined-storage solutions from Dell and VMware

### At-A-Glance

Dell's Cloud Client-Computing certified and validated vSAN and vSAN ReadyNode solution for desktop virtualization benefits:

#### Radically Simple Solutions

- ✓ Validated and certified solutions for desktop virtualization with vSAN embedded for enterprise-ready storage
- ✓ Customizable reference architectures or pre-certified configurations to simplify your desktop virtualization implementation
- ✓ Uses storage policies to assign storage services to specific VMs. vSAN then automatically tunes and rebalances storage as necessary to remain compliant.
- ✓ Desktop virtualization deployments benefit from variable storage solution that easily expands and enables simplified management

#### High Performance

- ✓ Built on PowerEdge hardware powered by Intel® Xeon® processors and optimized for highest performance in client virtualization, including virtualized graphic capabilities
- ✓ Able to scale performance and capacity in a linear and predictable manner
- ✓ Workload mobility and resiliency with expandable clusters to support variable and multi-site desktop and application virtualization deployments
- ✓ Desktop virtualization with performance comparable to traditional endpoints

### Simplified desktop virtualization storage solutions

Organizations looking to implement desktop and app virtualization traditionally play a guessing game where storage is concerned. When considering local and physical storage, determining what would be necessary for the virtualized world is difficult and can be overwhelming. This is especially true when determining how virtualizing desktops will impact the storage architecture. Organizations risk oversizing their environment thereby wasting CapEx, or under-sizing and potentially ruining the user experience. Software-defined storage solutions, such as VMware vSAN, provide simplified solutions with high performance data stores that offer fine-grained scalability with linearly-predictable performance as demand grows. Dell's validated and certified desktop virtualization solutions incorporate vSphere and vSAN, and provide a complete end-to-end solution that allows companies to grow and expand without large capital investments in SAN hardware.

### Wyse Datacenter for VMware Horizon solutions with vSAN

From reference architectures to appliances, Dell's approach to desktop virtualization solutions is to provide the best option to meet your needs. The additional work done with VMware Horizon and vSAN to ensure optimal performance takes the guesswork out of implementation. Storage solutions are simplified and powerful. Organizations no longer need to learn or adapt to complex storage management, but instead use familiar VMware vCenter tools, combined with Dell plug-ins, reducing the required learning curve.

Dell's end-to-end solutions with vSAN allow you to streamline your virtualized storage strategy. Storage policies and provisioning for desktop virtualization is managed as a part of the normal virtual machine workflow. With guidance on configurations, or pre-sized, pre-configured offerings, the entire desktop virtualization environment is right-sized and performance optimized. Costs are reduced with performance comparable to traditional local storage by utilizing x86 servers with local storage, avoiding large and expensive storage systems and over-provisioning.

### Dell's vSAN Ready Nodes for desktop and app virtualization

In addition to the solutions mentioned above, vSAN ReadyNodes are specific configurations that VMware certifies will work optimally with vSAN. Dell's Cloud Client-Computing team has submitted three configurations specific to desktop virtualization workloads based on Intel® Xeon® processor powered 13G PowerEdge servers. These configurations have been tested to provide engineering documentation on sizing, performance and best practices. vSAN ReadyNodes are ideal as hyper-converged building blocks for larger data center environments looking for automation and a need to customize hardware and software configurations.

## Saving time and money

Customers benefit from a totally customizable storage solution for their virtual desktop infrastructure. Choose between pre-validated reference architectures based on Horizon with vSAN or appliance-based solutions such as vSAN ReadyNodes for Horizon from Dell. Either way, you can rest assured that you will be implementing an optimized solution.

With the simplified pay-as-you-grow scale out of vSAN, you can feel secure that your solution will scale with your organization's needs. vSAN and vSAN ReadyNodes are fiscally attractive through the reduced administrative overhead and power consumption, increasing the return on investment and reducing the total cost of ownership.

## True end-to-end solutions

Regardless of which method is chosen to stand up the Horizon with vSAN infrastructure, Dell is able to provide a true end-to-end environment when bundled with industry leading Wyse thin and zero clients. The Wyse ThinOS is the only virus-immune thin client OS with zero attack surface. Wyse endpoints have a much longer refresh cycle, typically more than seven years, further reducing capital expenses. When reduced desktop support costs are factored in, the inclusion of Wyse endpoints also reduces operating costs. Given the increased security provided with a thin or zero client, versus traditional endpoints, our end-to-end VMware-powered solutions are ideal for your desktop virtualization environment.

### What is VMware vSAN?

VMware vSAN is a hyper-converged storage solution that delivers a simple, elastic and efficient storage solution optimized for virtual machines or desktop virtualization.

- Storage **scale out** architecture embedded in vSphere
- Aggregates locally attached storage from each ESXi host in a cluster
- **Dynamic** capacity and performance scalability
- High performance with **flash acceleration**
- Deeply integrated with VMware stack
- Managed through **VM-centric** storage policies and vSphere Web Client

## Why Dell?

Dell's Wyse Datacenter for VMware Horizon with vSAN and vSAN ReadyNodes are important additions to Dell's growing end-to-end desktop virtualization solutions portfolio that are designed to simplify your storage needs.

- ✓ Dell is the world's **number one** thin and zero client provider
- ✓ Dell's extensive expertise and industry leadership in Intel based PowerEdge x86 server architecture, hardware systems management, web scale deployments and with VMware environments informed the development and co-engineering of this solution
- ✓ Dell is the single source for technical support and our premium support service can be bundled with every reference architecture and appliance for VMware Horizon and vSAN, as well as vSAN ReadyNodes. Value-added deployment, consulting and managed services are available as well
- ✓ Dell's comprehensive services portfolio for VMware environments, with thousands of joint customers, will ensure that you get the most out of your IT investments
- ✓ Dell's broad software portfolio delivers comprehensive solutions for data protection, security, performance monitoring, and cloud management to complement your virtualization environment

## Get the services and support you want

Dell's broad portfolio of planning, implementation and maintenance services can help accelerate your IT initiatives and grow your business. Each Dell Cloud Client-Computing solution for VMware Horizon with vSAN and vSAN ReadyNodes offers a single support contract for hardware, software and services.

### ProSupport:

Our premium support service, which is offered with the Dell solutions offer highly trained experts around the clock and around the globe to address your unique IT needs. We'll help you minimize disruptions and maximize availability of your critical workloads with

- ✓ 24x7x365 access to certified hardware experts
- ✓ Collaborative support assistance with over 195 third-party vendors
- ✓ Hypervisor and operating system support
- ✓ On-site parts and labor response options including next business day or four-hour mission critical

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**Dell Inc.**  
One Dell Way  
Round Rock, TX  
78664