

Dell EMC vSAN Ready Node Certification

Tech Note by

Thomas MM

Summary

Dell EMC vSAN Ready Nodes are simple solution that help accelerate VMware vSAN deployments, as the hardware is pre-configured and tested with optimally configured CPU, memory, Network Interface Controllers, SSD and HDD, pre-loaded with VMware vSphere and vSAN software, offered in varied capacities for different workloads, with a certification from both Dell EMC and VMware.

Dell EMC vSAN Ready Nodes lessen project risks and reduce the time taken to procure hardware and software, build, validate, certify and run a hyperconverged solution.

Introduction to the Dell EMC vSAN Ready Node Certification

Dell EMC vSAN Ready Nodes are hyperconverged building blocks built on Dell EMC PowerEdge servers that are preconfigured, tested and certified to run VMware vSAN™, a radically simply software-defined storage solution. Dell EMC vSAN Ready Nodes are offered in varied configurations designed to meet VMware vSAN specifications and are ideal for on-premises and cloud environments. For customers, it simplifies the path to HCI and reduces risks with a validated, tested, and certified ready to run Dell EMC vSAN Ready node

The Certification Process

All Dell EMC vSAN Ready Nodes are required to go through a certification process. This involves jointly testing for performance, feature and faults, different types and quantity of CPU's, memory and disks, network controllers, and stress tests for a period that ensures the robustness and resiliency of the hardware.

The following diagram depicts the certification process for the Dell EMC vSAN Ready Nodes.



Figure-1. Dell EMC vSAN Ready Node certification process.

Certification Parameters and Outcome

VMware vSAN, is built from the ground up and certified to be listed on the VMware Compatibility guide-VCG website. Each vSAN Ready Node is configured with the right hardware, specific firmware and driver versions, configuration type of Hybrid or All-Flash drives, ESXi version, combined with the best performance and availability of support used in a VMware vSAN Cluster.

The certification process requires the base server platform, and the driver versions of the peripheral devices of the hardware under test be I/O Vendor Partner certified. This ensures that the Ready Nodes listed in the vSAN Compatibility Guide are specific versions for every certification and not just minimums. For customers, this means a vSAN HCI node has been tested thoroughly with the base hardware and exact configurations that is listed in the VCG, enabling in choosing the 'Most Optimized vSAN Cluster' configuration a simple task.

A change in this combination requires recertification even if a specific component has been tested with or changed from the previous version. Dell EMC vSAN Ready Node Certification happens on three levels: vSAN Ready Nodes-comprising of one or more chassis, individual components, such as a Storage I/O Controller and PCIe or NVMe devices, with the rest of the base hardware made of certified components.

Benefits

Hyperconverged solutions offer inherent benefits, not just consolidated hardware with a license. Dell EMC vSAN Ready Nodes provides enterprises the right Ready Node profiles for your workloads, a single SKU, a modular and scalable platform with a lower TCO compared to a disparate solution and ease of use in

managing resources. With the Dell EMC vSAN Ready Nodes created jointly with Dell EMC and VMware, hundreds of hours of testing and certification makes it the obvious choice for any enterprise's need for a hyperconverged solution.

Pre-validated architecture	Radically simple solution	Stress Test
Ready to Use	Evolve without risk	Lower TCO
High Performance	Saving time and money	True end-to-end solution

Figure-2. Benefits of Certified VMware vSAN solution.

In Conclusion

Dell EMC vSAN Ready Nodes are an ideal choice for enterprises planning to adopt a Hyperconverged Infrastructure solution. Choose a pre-validated reference architecture designed and tested to utilize the latest server and storage technologies that are ready to use as an exact end-to-end solution.

Today's enterprises face more stringent IT budgets, and customers are exploring technologies to lower the total cost of ownership drastically. Dell EMC vSAN Ready Nodes help streamline HCI adoption and reduce costs with a scale-up/scale-out architecture that adapts to a rapidly changing business need. To learn more on Dell EMC vSAN Certifications visit the website [here](#).



PowerEdge DfD Repository
For more technical learning



Contact Us
For feedback and requests



Follow Us
For PowerEdge news