Simplify With the Right Hybrid Cloud and Accelerate Your Transformation

Run VMware® Cloud Foundation™ on Dell EMC PowerEdge servers for optimal app development and workload placement

Digital transformation is more than just a catchphrase. It has gone beyond the point of consideration, becoming a mandatory objective for many businesses today. In fact, 81% of companies believe that if they do not embrace IT transformation, they will no longer be competitive.[1]

How you transform really depends on your specific business need. For organizations looking to address elastic or unpredictable workloads, a hybrid cloud is a step in the right direction, enabling you to accommodate periodic spikes in business demand and shift workloads from on-premises to cloud as needed.

A hybrid solution delivers the best of both worlds — allowing you to leverage the public cloud without compromising your on-premises investments. And while management complexity is always a concern, Dell Technologies and VMware have come together to provide a simple, modern hybrid solution that delivers intelligent automation and management as well as multi-layer security from core to cloud to edge.

The right hybrid cloud

Dell Technologies and VMware bring to market proven solutions. Dell EMC PowerEdge servers are the #1 servers in the market,[2] and together with VMware we provide industry leading servers plus virtualization software to deliver all the benefits of a simplified and truly effective hybrid cloud solution.

Dell EMC PowerEdge MX and rack servers are the bedrock of the modern data center. They bring scalable business architecture, intelligent management, multi-layer security and high performance to enable optimal deployment of a software-defined data center.

VMware Cloud Foundation combines VMware's vSphere®, vSAN™ and NSX® into one solution, and manages them collectively with SDDC Manager. Cloud Foundation provides the connection between your data center infrastructure — your hardware stack — and the public cloud. It can dramatically speed up the journey to a hybrid cloud and accelerate time to market by eliminating complex processes around deployment and application provisioning.

Dell EMC PowerEdge MX servers deliver up to

1.7X

the throughput and

73%

lower latency compared to other servers.[3]

---

[1] Dell EMC sponsored white paper, ESG, "Research Proves IT Transformation's Persistent Link to Agility, Innovation, and Business Value," March 2018.
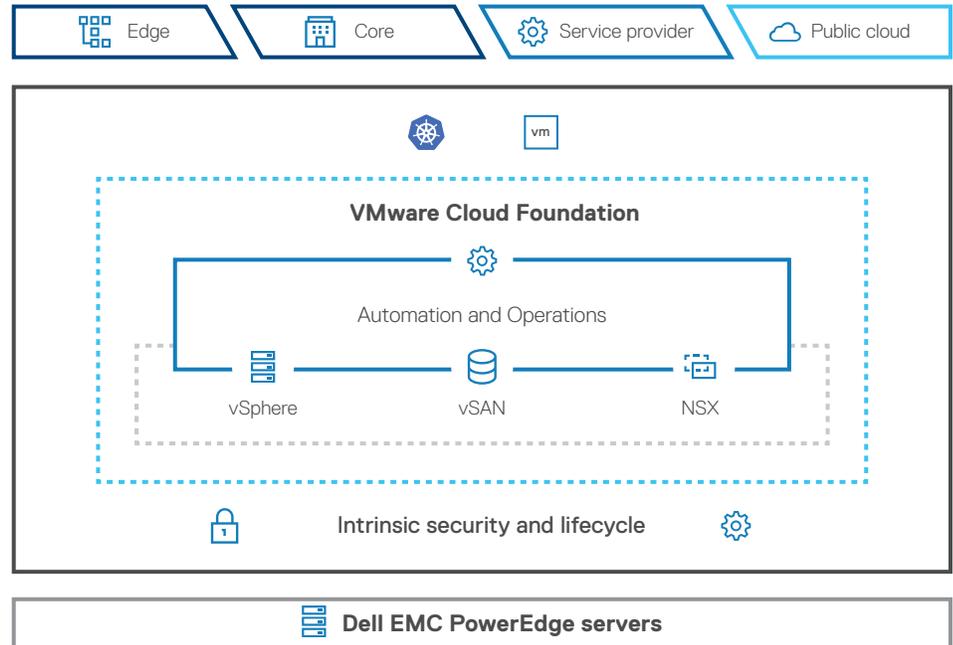[2] IDC WW Quarterly x86 Server Tracker, 2019Q4, March 2020 — Units & Vendor Revenue.
[3] Principled Technologies report: "Save IT admin time with the Dell EMC PowerEdge MX platform and OpenManage Enterprise," January 2019.

VMware enhancements to the various software components in the stack go a long way to boost manageability and security in your cloud. And for customers looking to modernize app development, Cloud Foundation 4 includes a Kubernetes® addition that integrates with your stack. The Kubernetes addition enables VMware Cloud Foundation Services and application-focused management for streamlined development, agile operations, and accelerated innovation. With native support for Kubernetes, customers can run containers and virtual machines on the same platform.

Reduce deployment cycles from weeks to days with VCF on PowerEdge servers.[4]

Up to 40% lower TCO with PowerEdge MX and Cloud Foundation.[4]

Edge	Core	Service provider	Public cloud

VMware Cloud Foundation

Automation and Operations

vSphere vSAN NSX

Intrinsic security and lifecycle

Dell EMC PowerEdge servers

Dell EMC PowerEdge and VMware — The right fit!

It's important to note that businesses will not achieve the same results running Cloud Foundation on just any hardware platform. Application performance and efficiency depend heavily on the performance and reliability of your hardware stack, which is why Dell EMC PowerEdge MX and rack servers are the ideal fit for Cloud Foundation. It is more relevant than ever for businesses to meet their IT demands on the fly. Cloud Foundation and PowerEdge MX enable a truly dynamic IT infrastructure that responds, adapts and evolves with your workload needs in the hybrid cloud and can be provisioned and re-provisioned for optimal workload performance and ideal resource utilization. Dell Technologies MX composability with Cloud Foundation allows customers to compose and decompose with the SDDC Manager to quickly allocate fluid sets of storage resources.

Cloud Foundation on Dell EMC PowerEdge servers can speed your overall IT transformation efforts while also making that process simpler, more agile and efficient, and less costly.

In addition to high-performance capabilities, the joint Dell Technologies–VMware solution enables several key advantages in terms of integrated management and Dell EMC vSAN Ready Nodes.

Effortless management through automation and integration

One of the potential barriers to any hybrid cloud solution is management complexity. You don't have time to learn and maintain different and incompatible toolsets. Fortunately, this is not an issue with PowerEdge servers running VMware because we offer an integrated toolset that lets you manage both the hardware and software stack through one consistent experience.

Dell has developed a series of new technologies around our OpenManage portfolio of systems management tools. We've also brought forth new advancements in iDRAC, our agent-free embedded server management. OpenManage Integration for VMware vCenter (OMIVV), a vCenter® plug in, bridges the physical and virtual gap by automating and consolidating key PowerEdge server management tasks in the vCenter console. And vSphere Lifecycle Manager (vLCM) enables unified software and firmware lifecycle management scheduled within VMware vCenter.

Similarly, the VMware vRealize Suite is a multi-cloud cloud management solution, providing a modern platform for infrastructure automation and consistent operations. vRealize is included with some editions of Cloud Foundation and is optional with others. Ultimately, it helps with application operations, allowing developers to quickly release, troubleshoot and optimize performance of highly distributed microservice-based cloud applications. It helps IT continuously optimize capacity and performance. And it helps developers and IT easily access infrastructure and application resources in any cloud.

Carry out common management tasks quickly and easily through automation and integration. Boost agility, reduce TCO and free your IT admins for more strategic tasks.

Pre-tested and pre-validated with Dell EMC vSAN Ready Nodes

Another distinct advantage of the Dell-VMware solution is the speed and confidence with which you can deploy your solution because of extensive testing and certification of Dell EMC vSAN Ready Nodes.

Dell Technologies offers one of the broadest vSAN Ready Node portfolios in the industry.[5] Dell EMC vSAN Ready Nodes are preconfigured, tested, and jointly certified to run vSAN and take the guesswork out of deploying your environment, enabling faster setup, fewer update steps and reduced maintenance so you can be assured that it's already vSAN certified when it arrives — a requirement for Cloud Foundation implementations. Dell EMC vSAN Ready Nodes speed implementation timeframes from months to weeks, and reduce much of the risk involved with transformation.

Get started today

Together, Dell Technologies and VMware deliver a high-performance, automated and easy-to-manage hybrid cloud based on PowerEdge MX and rack servers and Cloud Foundation. Utilize your on-premises investments while taking your capabilities further. Burst to the cloud and repurpose workloads as needed. Simplify and accelerate deployment with a solution that is tested, validated and ready to go. Transform your business and maintain a strong competitive advantage.

---

[5] Based on Dell EMC review of complete vSAN Ready Node offering across all OEMs listed on VMware vSAN Compatibility Guide on March 25, 2020.

Learn more about Dell EMC PowerEdge and VMware.

Explore the advantages of Dell EMC PowerEdges servers.

Cloud Foundation deployment guides for PowerEdge MX or PowerEdge rack.

Join the conversation on Twitter @DellEMCServers with #PowerEdge.

DELLTechnologies

vmware®