

DELL EMC NFV READY BUNDLE FOR VMWARE

THE CHANGING COMMUNICATIONS MARKET

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By 2021, data emanating from mobile devices will reach 49 exabytes monthly¹. Communications Service Providers (CSP) need to rapidly scale up their capability and meet this growing demand. However, the current network architecture comprises of expensive hardware-based appliances with software tightly embedded into them. This not only makes the network rigid and fragmented, but also expensive with limited scalability.

Network functions virtualization (NFV) can help you overcome these issues by increasing infrastructure flexibility, efficiency, and scalability — while also reducing costs and lowering innovation risks. Dell EMC and VMware provide a proven, adaptable infrastructure for NFV environments. Based on open standards and engineering collaboration, the Dell EMC NFV Ready Bundle for VMware delivers exceptional scalability and agility in an integrated, optimized, and cost-effective package.

Dell EMC NFV Ready Bundle for VMware Overview

The Dell EMC NFV Ready Bundle for VMware is a turnkey solution optimized to simplify and accelerate production deployments. With this solution, Dell EMC has built a fully integrated and validated solution that enables service providers to immediately launch their own services on top of this Network Function Virtualization (NFV) platform, minimizing, if not eliminating, the need to apply engineering resources to develop their own infrastructure.

The Dell EMC NFV Ready Bundle for VMware combines hardware, software, and Dell EMC engineering and is designed to create a more flexible, scalable, and agile platform for CSPs. It includes open standards-based Dell EMC cloud infrastructure hardware (compute, networking) and a choice of a Virtual Infrastructure Manager (vCloud Director or VMware Integrated OpenStack) with vSAN or Dell EMC ScaleIO.

The solution is pre-validated with VMware vCloud NFV Platform, and it encompasses both hardware and software. This specific software bundle is optimized around Dell EMC cloud infrastructure hardware. The pre-validated solution minimizes adoption time and significantly reduces time to service from weeks to days/hours. In addition, the solution provides carrier-grade reliability to meet SLA requirements.

At its core, the VMware vCloud NFV Platform includes the vSphere virtualization platform, vSAN, NSX, vCloud Director or VMware Integrated OpenStack for the VIM, and vRealize Operations for operations management. Deploying VMware vSphere as host nodes and virtual machines will allow the gaining performance, security, and operational advantages.

As an alternative to vSAN, Dell EMC ScaleIO can be used as the software-defined storage option for the Dell EMC NFV Ready Bundle for VMware if it is more suitable for your storage needs.

In addition, there are two VIM options available with the Dell EMC NFV Ready Bundle for VMware. You can select either VMware vCloud Director or VMware Integrated OpenStack depending on which option best fits your VIM requirements.

A Proven, Optimized NFV Infrastructure

To promote cost-effectiveness, agility, innovation and interoperability, the European Telecommunications Standards Institute (ETSI) has

proposed a modern NFV Infrastructure based on open technologies and architectures.

In Figure 1, the Dell EMC NFV Ready Bundle for VMware integrates all of these components into a flexible, customizable building block. Dell EMC and VMware co-engineered this infrastructure for optimized performance,

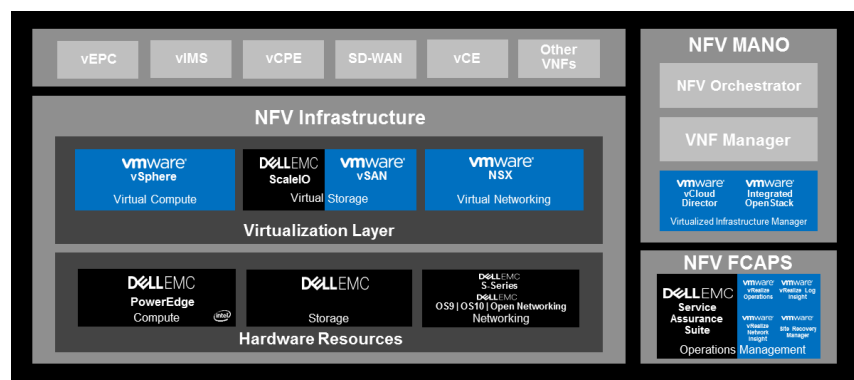


Figure 1: Dell EMC NFV Ready Bundle for VMware

security, and stability. Plus, the companies continue to work together to incorporate the newest technology and business innovations into the solution so you can confidently keep pace with your evolving requirements.

Why Choose Dell EMC NFV Ready Bundle for VMware?

The Dell EMC NFV Ready Bundle for VMware offers several customer benefits to help CSPs rapidly implement Dell EMC cloud infrastructure hardware and VMware vCloud NFV Platform software jointly:

- **Ready-to-use solution:** The solution has been fully engineered, validated, tested and documented by Dell EMC. This decreases your investment and deployment risk, and it enables faster deployment time.
- **Ease of ordering:** The full bundle is orderable from Dell EMC. No need to purchase vCloud NFV Platform software separately.
- **Choice:** VMware vCloud NFV provides a choice of Virtual Infrastructure Manager, giving you the flexibility to deploy on OpenStack or using vCloud Director.
- **Long lifecycle deployment:** The solution includes long-life Intel® Xeon® processors which reduces your investment risk and protects your investment in the solution for the long-term.
- **Seamless customer experience:** Dell EMC provides a single point of contact for pre-sales and post-sales support for the entire solution and length of your deployment for peace of mind.
- **World-class professional services:** The solution includes Dell EMC professional services that spans consulting, deployment, and design support to guide your deployment needs.
- **Customizable solution:** The solution is prescriptive, but it can be customized to address each customer's unique virtual network function (VNF) workload requirements.

Conclusion

The Dell EMC NFV Ready Bundle for VMware is a ready-to-operate solution for CSPs. Pre-validated with Dell EMC cloud infrastructure hardware and VMware vCloud NFV Platform, it reduces the time it takes to procure, validate, and integrate components. With the bundle, CSPs can accelerate infrastructure virtualization and NFV adoption.

Dell EMC Ready Solutions for Service Providers

The Dell EMC Ready Solutions for Service Providers offer a simple and reliable path to identify and acquire tested and validated solutions aligned to CSP workloads so that you can accelerate innovation, reduce risk and lower the total cost of ownership. The Dell EMC Ready Solutions for Service Providers delivers hassle-free, confidence-inducing, packaging of best-of-breed disaggregated components to help CSPs get up and running quickly.

From fully systems delivered with full lifecycle support, to reference architectures and bundles with pre-constructed templates, tools and documentation that serve as starting points for your own custom built solutions, you can count on Dell EMC to help you deliver better outcomes. Services and support from Dell EMC and channel partners complement your resources, while agile options from Dell Financial Services remove traditional capital budget bottlenecks.



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