Dell Engineered Solutions for VMware EVO:RAIL

Hyper-converged appliance optimizes infrastructure and application delivery

At-A-Glance

Dell Engineered Solutions for VMware EVO: RAIL benefits:

- Achieve faster-time-to-value
  - ✓ Deploy VMs in just 15 minutes from power on
  - ✓ Adopt a simplified appliance-based solution with a streamlined software-defined management experience

- Provide elasticity to your environment
  - ✓ Rapidly expand capacity with auto discovery of new infrastructure
  - ✓ Gain linear scaling and performance to meet growing user and business needs

- Enable greater ease of use
  - ✓ Intuitive, consumerized user interface for ease of configuration
  - ✓ Operate with a single-pane-of glass management experience
  - ✓ Use out-of-the-box integrations with existing VMware management tooling

Accelerate time to value

The Dell Engineered Solutions for VMware EVO:RAIL deliver a transformative user experience for virtual infrastructure, virtual desktop infrastructure (VDI), and general purpose workloads. The Dell Engineered Solutions for VMware EVO:RAIL combine Dell 2U/4 node servers and virtual infrastructure management software from VMware into a software-defined appliance, helping customers achieve faster time-to-value, provide elasticity to their environments, and enable greater ease of use for their infrastructure and application workload delivery.

Dell's 2U/4-node server – Powerful, streamlined, efficient

The Dell Engineered Solution(s) for VMware EVO:RAIL is an integrated hyper-converged appliance that is ordered as a single bundle and comes pre-installed with all required software components to get you up and running quickly. The appliance has 4 independent server nodes/blades enclosed within a single 2U chassis, allowing twice the density of four comparable 1U servers, and offers multiple memory and tiered storage (Solid State and SAS) configurations and 10GbE Ethernet connectivity.

Designed with your needs in mind

The Dell 2U/4 node server is designed to deliver the highest possible performance in a dense, scale-out package. This shared-infrastructure server offers a mix of performance and efficiency that makes it an exceptional data center building block for VMware environments.

High Level Specifications				
Dell EVO:RAIL	**Entry**		**Standard**	
	Node	**Appliance**	**Node**	**Appliance**
CPU type	2 x E5-2620v3 6 Core CPU	8 CPUs 48 cores	2 x E5-2630v3 8 Core CPU	8 CPUs 64 cores
Memory	128 or 192 GB	512 or 768 GB	256 GB	1024 GB
SSD	400 GB	1.6 TB	400 GB	1.6 TB
HDD	3 x 1.2 TB	14.4 TB	3 x 1.2 TB	14.4 TB
Usable disk	~3.3 TB	~13.1 TB	~3.3 TB	~13.1 TB
Network Connectivity	2 x 10 GbE 1 x 1 GbE	8 LAN ports 4 Mgmt ports	2 x 10 GbE 1 x 1 GbE	8 LAN ports 4 Mgmt ports
Capacity		100 vms or 250 desktops		150 vms or 440 desktops

Simplified Linear Scale-out

With Dell's Engineered Solutions for VMware EVO:RAIL you can easily scale performance, bandwidth and capacity by adding appliances. Each appliance adds compute, storage and networking resources in minutes. New appliances are automatically discovered and can be added to a cluster with zero configuration required. Up to 8 appliances can be combined into a single cluster.

High performance and efficient

The Intel® Xeon® processor E5-2600v3 product family powering the Dell 2U/4 node server with 16x DDR4 DIMM slots enables lightning fast results. With 50% more cores per node and up to 256GB of memory, this new platform boasts 2X performance improvement on the LinPack spec while being 28% more power efficient on Spec_Power compared to the previous generation

VMware EVO:RAIL Software

The VMware EVO:RAIL software bundle comes fully loaded on Dell Engineered Solutions for VMware EVO:RAIL.

Simplicity Transformed

EVO:RAIL enables power-on to VM creation in minutes, radically easy VM deployment, one-click non-disruptive patch and upgrades, simplified management...you get the idea.

Software-Defined Building Block

EVO:RAIL is a scalable Software-Defined Data Center (SDDC) building block that delivers compute, networking, storage, and management to empower private/hybrid-cloud, end-user computing, test/dev, and branch office environments.

Highly Resilient by Design

Resilient appliance design starting with four independent hosts and a distributed Virtual SAN datastore ensures zero application downtime during planned maintenance or during disk, network, or host failures.

Infrastructure at the Speed of Innovation

Meet accelerating business demands by simplifying infrastructure design with predictable sizing and scaling, by streamlining purchase and deployment with a single appliance SKU.

Ease of Adoption

EVO:RAIL is optimized for the new VMware user as well as for experienced administrators. Minimal IT experience is required to deploy, configure, and manage EVO:RAIL, allowing it to be used where there is limited or no IT staff on-site.

Why Dell?

Dell Engineered Solutions for VMware EVO:RAIL are an important addition to Dell's growing engineered solutions portfolio, designed to automate and simplify IT.

✓ Dell is the only provider of a Horizon View solution based on VMware EVO:RAIL, and Dell is the number one provider of thin and zero footprint clients.

✓ Unique Integrated hardware management via PowerTools Cluster Service Manager (CSM).

– Hardware updates (ex. Server BIOS, NIC firmware, etc) are rolled into a single appliance level payload package, dramatically simplifying administration.

– Updates are applied with workload aware intelligent orchestration, minimizing service impact and reducing deployment risk

– CSM is integrated via Link and Launch within the EVO UI

✓ Dell's extensive expertise and industry leadership in x86 server architecture, hardware systems management, web scale deployments and with VMware environments were brought to bear in the development and co-engineering of this solution

✓ Dell is the single source for technical support and our premium support service is bundled with every EVO:RAIL appliance. 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 customers get the most out of their VMware environments

✓ Dell's broad software portfolio delivers comprehensive solutions for data protection, security, performance monitoring, and cloud management to compliment 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 Engineered Solution for VMware EVO:RAIL offers a single support contract for hardware, software and services.

ProSupport:

Our premium support service, which is included with the Dell Engineered Solution for VMware EVO:RAIL, offers 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