

VMware EVO:RAIL

A radically simple building block for your software-defined data center

AT A GLANCE

VMware EVO:RAIL™ combines compute, networking, storage and management resources together with VMware's industry leading infrastructure virtualization and management products to form a radically simple hyper-converged infrastructure appliance offered by Qualified EVO:RAIL Partners.

KEY BENEFITS

- Scalable, modular, and resilient architecture housed in a small form factor makes an ideal platform for private cloud, VDI, and remote/branch office deployments
- Simplified operation, management, and maintenance resulting in lower CapEx and OpEx costs
- Single support call reduces complexity and support costs, and time to recovery
- Resilient appliance design ensures no application downtime during planned maintenance or during disk, network or host failures

Introducing EVO:RAIL

What is EVO:RAIL?

EVO:RAIL is a scalable Software-Defined Data Center (SDDC) building block that delivers compute, networking, and storage resources together with industry leading management products in a single appliance.

EVO:RAIL enables you to go from initial power-on to VM deployment in minutes, compared to hours or days with traditional infrastructure or even converged infrastructure.

Trusted and Proven Technology

Powered by VMware's industry leading infrastructure virtualization technology including VMware vSphere®, vCenter Server™, and VMware Virtual SAN™, EVO:RAIL delivers the first hyper-converged infrastructure appliance 100 percent designed, powered, and validated by VMware.

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.

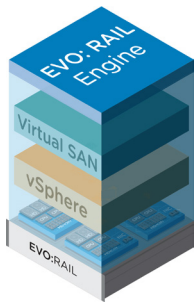
Infrastructure at the Speed of Innovation

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

Freedom of Choice

EVO:RAIL is offered as a complete solution including management products, software licenses, and support as a single SKU appliance by Qualified EVO:RAIL partners. Customers choose their preferred partner backed by a single point of contact for both hardware and software support.

EVO:RAIL Hardware and Software Bundle



- EVO:RAIL rapid deployment, configuration and management engine
- Compute, network and storage virtualization enabled with VMware software
- EVO:RAIL Appliance sold by our 9 Qualified EVO:RAIL Partners

Hardware Specifications (Per Node)

Processor	• Dual Intel E5 processors (12 cores, Ivy Bridge/Haswell)
Memory	• 192 GB memory
Storage	• 400 GB SSD • 3.6 TB raw capacity
Network	• 2 x 10 GbE NIC port • 1 Management port

The EVO:RAIL Engine

Management that Adapts to You

EVO:RAIL provides a radically redesigned and simplified end-to-end management experience. Deployment, configuration, and management tasks are streamlined, allowing users to configure and deploy VMs in minutes, not hours or days.

The EVO:RAIL Management interface is optimized for both administrators new to VMware management products as well as experienced administrators.

Administrators with minimal IT knowledge or administrators in environments with limited on-site IT staff can choose the simplified yet powerful management experience provided by the EVO RAIL engine.

More experienced administrators can choose to use existing VMware management products allowing them to utilize existing product knowledge, best practices, and processes.

Remote (lights out) management of each individual node is possible through a 1GbE IMPI management port

The EVO:RAIL engine simplifies virtual machine provisioning by utilizing predefined sizing and security policies that are enacted with a single click. Once provisioned, VMs can be monitored at a glance from the dashboard. Both compute and storage resources including CPU, memory, storage, and VM usage health can be monitored by individual nodes and appliances as well as by entire clusters.

With a minimum of four independent ESXi™ hosts in an EVO:RAIL cluster, patching and upgrading are non-disruptive and require zero downtime.

Infrastructure that Grows with You

EVO:RAIL allows you to radically simplify and automate IT infrastructure scale-out. Increasing compute, networking, or storage resources is as easy as powering up a new appliance and adding it to an EVO:RAIL cluster. The EVO:RAIL engine automatically discovers the new appliance and shares configuration information with other appliances in the cluster effortlessly with only a password and a few mouse clicks.

EVO:RAIL can now scale-out to eight appliances per cluster for a total of 32 ESXi hosts and one Virtual SAN datastore managed by a single vCenter Server and EVO:RAIL engine instance.

Preloaded Management Software

EVO:RAIL Management Software is preloaded by the Qualified EVO:RAIL Partner and is comprised of:

- EVO:RAIL Deployment, Configuration, and Management engine
- vSphere Enterprise Plus, including ESXi for virtual compute management
- VMware Virtual SAN for virtual storage
- vCenter Server
- VMware vRealize™ Log Insight™

As part of the vSphere loyalty program, customers can also leverage existing vSphere Enterprise Plus licenses

Resilient Design





The EVO:RAIL appliance is designed with fault-tolerance and high availability in mind, with four independent nodes each consisting of dedicated compute, network, and storage resources:

- Four ESXi hosts in a single appliance enables resiliency for unplanned hardware failures and planned maintenance
- Two fully redundant power supplies

- Two redundant 10GbE NIC ports
- Enterprise-grade ESXi boot device, HDDs, and SSDs
- Fault-tolerant Virtual SAN datastore

Use Cases

EVO:RAIL supports any application that a customer would run on vSphere or Virtual SAN. Each EVO:RAIL appliance is designed to run appropriately 100 average-sized general-purpose server virtual machines or 250 virtual desktops, scaling-out to 800 virtual machines or 2,000 virtual desktops in a 8 appliance cluster.

 <p>General Purpose</p>	<ul style="list-style-type: none"> • Sized for 100-800 general purpose VMs • Easily add up to 8 appliances for increased capacity • Application uptime ensured through HA, DRS, Virtual SAN and EVO:RAIL™ Engine
 <p>VDI</p>	<ul style="list-style-type: none"> • Sized for 250-2,000 virtual desktops • Handle peak performance requirements (boot, login, read/write storms) • Quick and easy deployment and configuration • New: Add-On Horizon for EVO:RAIL™ available soon to the channel
 <p>ROBO</p>	<ul style="list-style-type: none"> • Consistent footprint and deployment operations • IT-in-a-box • Simplified user experience ideal for non-VMware experts • Quick and Easy deployment and configuration
 <p>Virtual Private Cloud</p>	<ul style="list-style-type: none"> • Service Provider VPC building block for MSP and hosting • Consistently and easily deployed on-prem and off-prem (Colo) • Quick and Easy scale-out appliances to increase capacity

Learn More

- Call 877-4-VMWARE (outside North America call +1-650-427-5000)
- Visit <http://www.vmware.com/products> and try a free demo
- Follow us @vmwevorail 

