



Dell™ PAN Datacenter-in-a-Box

A modular, automated, and highly-reliable server, storage, network and server environment... at a radically low price-point.

Making the Hard Things Easy

The Dell PAN Datacenter-in-a-Box is an ultra-simple, modular environment for production-grade business-critical applications. It includes everything needed: Blade enclosure, networking, virtualization, and even storage.

It's perfect for virtualized, physical, or mixed workloads, and is designed to get IT environments up-and-running quickly – usually less than 1-2 days. It also helps keep them running with integrated high-availability (HA) workload failover and instant server configuration profiles as well.

Simplify Operations. Take Out Cost.

- Single-pane-of-glass management
- Eliminates expensive clustering software
- Eliminates additional VM licenses
- Eliminates NICs/HBAs & other costly I/O

Provides Radical New Business Value

Reduce Costs

- Out-of-the-box high availability included
- Out-of-the-box virtualization included
- No need for clustering software licenses
- Reduce/eliminate costly components (NICs, HBAs, KVMs, cables)

Why So Simple?

Dell PAN Datacenter-in-a-Box uses PAN Manager® Software by Egenera®, proven in over 1,400 worldwide IT production sites. PAN Manager is based on 7th-generation technology with a refined single-pane-of-glass GUI as well as a web services-based management API.

Expensive (and hard-to-manage) network and I/O hardware is eliminated – because the system leverages user-defined configuration profiles for servers and I/O, and is based on a converged network fabric. The system also includes embedded VMs (based on Citrix XenServer) which are defined, configured and managed identically to their physical counterparts, further simplifying system operation. You always have the option to use third-party virtualization environments too.

Dell PAN Datacenter-in-a-Box includes:

- Single enclosure for up to 16 blades
- SAN storage
- Virtual machine (VM) environment
- N+1 high availability (HA) for both physical and virtual workloads
- Converged fabric networking
- Simple-to-create server, I/O, networking and storage configuration profiles
- Simple-to-use, automated configuration instantiation and provisioning
- Dual-redundant system controllers
- Optional disaster recovery (DR) across all workloads, networking and I/O
- Installation service



Improve Operations Efficiency

- Single-pane-of-glass management of servers, VMs, network, I/O, HA and DR
- Transparent management of physical and virtualized workloads
- New server configuration profiles deployable in under 5 minutes
- True remote lights-out management

Why So Reliable?

Dell PAN Datacenter-in-a-Box is specifically engineered for business-critical and mission-critical environments. Because entire server and environment profiles (I/O, networking, and storage connections, physical and virtual configurations) are defined in software, they can be re-created within minutes should failure or disaster strike. This N+1 high availability approach means fewer servers are needed as backup... and you can often eliminate the need for clustering software too.

The system also supports a verifiable disaster recovery option, where the entire physical, virtual, storage and networking environment can be recreated within minutes on a 2nd remote system – and entirely from within the same management console.

Ideal For...

Business-critical applications – which require fast failover of entire environments within minutes

Small/medium businesses – who need a highly reliable but flexible datacenter-in-a-box than can grow with the business

Department-scale IT environments – with multiple mixed physical and virtual needs

CRM/ERP/Enterprise applications – which require multiple physical scale-out databases, as well as virtual services

Virtualized environments – use as a highly-reliable and reconfigurable environment with the standard embedded Citrix VMs, or with VMware or Microsoft.

Distributed datacenters and cloud computing – for service providers or IT management needing a simple, wire-once, highly reliable platform for distributed Infrastructure-as-a-Service.

Investment Protection. Risk Reduction.

Standard hardware and networking

The entire system is based on standard, generally available Dell enclosures, networking, protocols and storage components.

Production-proven management software

System management is based on PAN Manager software, in use at over 1,400 locations worldwide. Most major operating systems, data bases, and enterprise applications are already certified and/or validated on PAN Manager. The entire control system is also accessible by a standard web services-based interface

Complete, Integrated, Reconfigurable

Included in the system:

Networking: all I/O components, cables and switches have been pre-integrated into a wire-once instantly reconfigurable environment

Management: PAN Manager software, complete with N+1 high availability, is licensed for all 16 blades slots

Virtual Environment: An entire Citrix-based VM environment is included for any and all workloads

Installation: The cost for installation service is included.

System Options:

- Integrated environment only (specify for FC or iSCSI)
- Integrated environment w/EMC AX4 FC SAN
- Integrated environment w/Dell EqualLogic PS6000E-series iSCSI SAN (future)



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