

vSTAC VDI™ Appliance

STACKABLE VIRTUAL DESKTOP INFRASTRUCTURE (VDI) APPLIANCES



- Speed VDI production
- Simplify VDI design
- Save up to 40% on CapEx and OpEx
- Eliminate storage as a barrier to deployment



Pivot3 vSTAC™ VDI Array

vSTAC VDI Appliances deliver high-performance compute and storage resources that scale as appliances are “stacked” together. Each vSTAC VDI Appliance contributes a high-performance vSphere environment along with scale-out SSD and disk storage resources. Three to eight appliances can be stacked and dynamically expanded as demand grows.

KEY FEATURES

High-performance VDI Platform

Run over 100 virtual desktops on each vSTAC VDI Appliance. Storage performance is automatically load-balanced across appliances to ensure that virtual desktops receive the optimal resources, regardless of which appliance they are running on.

Simplify VDI Design and Speed VDI Trials

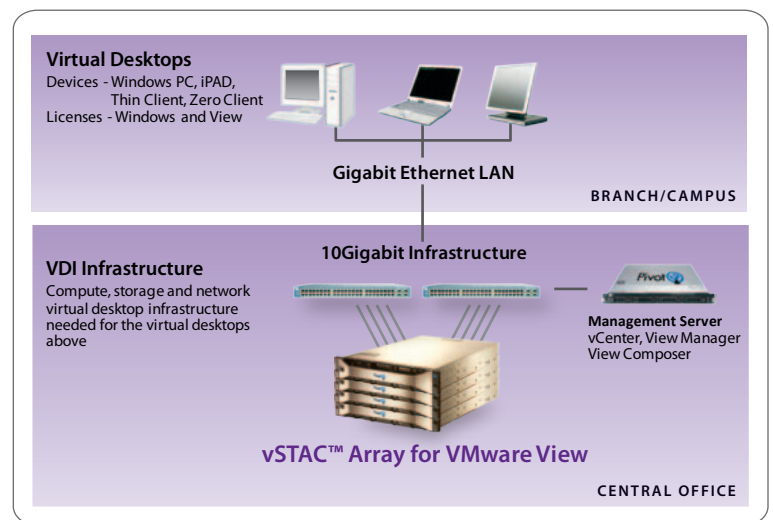
Configure your VDI deployment in minutes instead of hours or days. The Pivot3 Configuration Tool directly converts user profiles into an infrastructure configuration. In the field, Pivot3 reduces support risk with an appliance model that scales dynamically as new users are added or user profiles change.

Save On CAPEX and OPEX

Pivot3 consolidates server and storage resources into a single hardware platform to reduce power, cooling, rackspace and cost over systems with separate physical servers and physical storage. Future planning is easy because one hundred or one thousand virtual desktops have the same cost basis.

Eliminate Storage as a VDI Barrier

VDI has a set of demanding storage requirements that can be daunting to administrators. Bypass the steep learning curve on storage and avoid the heart-stopping investment required by over-provisioned SAN or NAS systems.



Unique vSTAC OS Technology

Pivot3 simultaneously runs virtual server environments and creates, protects and load balances IP SAN capacity and performance across all the drives, network and RAID controllers contained within the appliances in the vSTAC Array.



vSTAC VDI Appliance



Virtual Server Specifications

- Dual six-core Intel® Xeon® Processor X5675
- 96 GB RAM
- Two 10 GigE SFP+ for LAN and iSCSI connectivity
- Integrated VMware vSphere 5.0 hypervisor

Storage Specifications

- 50 GB SLC write-cache flash
- 150 GB SLC flash tier
- 3TB Enterprise SAS tier
- All storage resources scale-out as appliances are added

vSTAC Specifications

vSTAC Scaling Specifications

- Stack 3 to 8 appliances in a vSTAC Array
- Scale to hundreds of virtual servers
- Scale to 24TB iSCSI SAN
- Scale to 8 parallel RAID controllers



Virtual Server Protection

- **VMware vMotion™** – Migrate virtual servers dynamically between vSTAC VDI appliances in a vSTAC Array
- **VMware HA™** – Failover virtual servers across vSTAC VDI Appliances.
- **Optional VMware vCenter**–Facilitates administration

Dynamic Storage Scaling

- Dynamic logical and physical capacity expansion
- Dynamic disk and RAID controller load-balancing
- Dynamic iSCSI multi-path and load-balancing

Storage Protection

- No single point of failure
- Distributed virtual sparing
- Predictive drive sparing
- Multi-path protection for iSCSI connections
- RAID 6x - 5 simultaneous disk events or - 2 drives and an entire appliance
- RAID 6e - 3 simultaneous disk events or - 1 drive and an entire appliance
- RAID 5e - 1 disk event or - an entire appliance
- RAID 1P - Triple Mirroring for SLC SSD Tier

Management Software

- **vSTAC Manager** configures vSTAC Arrays and runs on any PC

Alarms and Alerts

- State-sensitive LEDs indicate drive events
- vSTAC Manager indicates state changes
- SNMP MIB support for email notification

Configure your system on-line: VDIconfigurator.pivot3.com

VDI Configurator << 1 2 3 4 5 >> Back to Pivot3.com

Endpoints

Endpoint costs factor into the VDI project ROI and financial analysis. Costs include new endpoints, Windows as needed, and VMware View licenses.

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VDI Endpoints Planned
 Concurrent VDI Users: 1000
 VDI Endpoints: 600

Endpoints by User Type	% VDI Endpts	# VDI Endpts	Repur posed	New Endpts
Task User	50%	500	500	-
Standard User	25%	250	250	-
Executive User	13%	125	125	-
Mobile User	13%	125	125	-
Total Endpoints		1,000	1,000	-

New Endpoints Configuration

New PCs - w/Windows: -
 New Thin Clients - w/o Windows: -
 New Zero Clients - w/o Windows: -

VMware View Licenses	Concurrent Users	View Licenses	View Premier
Task User	300	-	300
Standard User	150	150	-
Executive User	75	-	75
Mobile User	75	-	75
Total View Licenses	600	150	450

Repurposed PCs Existing Windows PCs often provide the least cost VDI endpoint option as they eliminate new hardware costs and leverage existing Microsoft support contracts. Virtual desktop technology makes it possible to run newer hardware-intensive operating systems and applications without upgrading the endpoint device.

Thin Clients Thin client devices can reduce device cost and improve security over traditional PCs. Thin Clients in this analysis do not run the Windows operating system and may limit physical access by limiting access some traditional input devices such as disk drives or USB ports and other connections.

Zero Clients Zero clients reduce cost by completely eliminating device CPUs and Windows licenses. Zero clients support keyboard/video/mouse (kvm) functionality over the network and devices include PDAs, iPads, and intelligent monitors.

PCs with Windows New PCs are sometimes used with virtual desktops although this is often the most expensive VDI endpoint option.

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