



“Witnessing 2646 VM’s running on a VirtualStorm, Cisco, EMC and VMware configuration was like seeing a unicorn for the first time.”

Challenges with Virtual Desktop Infrastructure Solutions

Many enterprises are failing to realize the benefits of virtual desktop infrastructures (VDI) and as a result are not rolling out large-scale deployments.

Some have discovered that current VDI technologies cannot scale cost effectively. While others have found that application streaming saturates the network, creating performance problems and unhappy end-users.

Enterprises have also found that some VDI solutions clone images, thereby creating massive storage repositories, and increasing TCO.

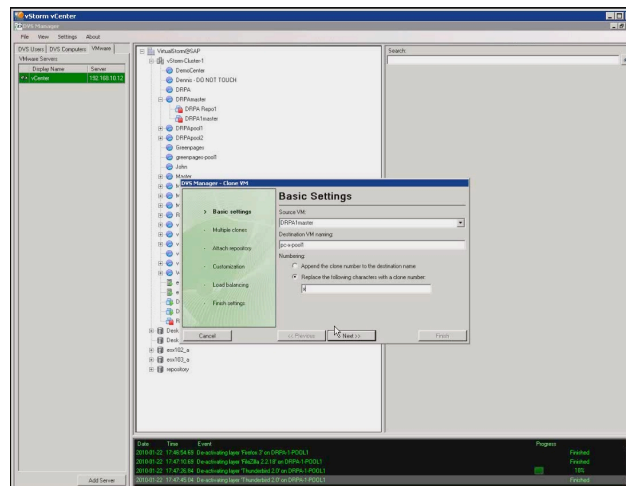
It is clear that in order to realize the ROI benefits of VDI, it’s critical we solve:

- **Hardware costs** – VDI must have low TCO for back-end servers and storage
- **Scalability** – VDI must be able to support thousands of end users
- **Performance** – VDI cannot saturate networks
- **End user experience** – The virtual desktop must “feel like a local desktop”
- **Manageability** – VDI has to be easier to manage than traditional solutions.

Introducing VirtualStorm

VirtualStorm is an enterprise class VDI solution for 1000 to 100,000 users. It’s a software agent that optimizes VDI infrastructures in order to cost effectively deliver high performance, easy to manage virtual desktops. When you add VirtualStorm to leading VDI technologies (from Microsoft, VMware and Symantec the entire solution scales linearly to support tens of thousands of concurrent users.

In addition VirtualStorm improves hardware resource utilization while automating deployment, installations, provisioning, updates and upgrades.



The VirtualStorm Difference

VirtualStorm is unique in four major areas:

1. Memory Enhancement Stack (MES)

The MES is a special memory driver for virtualized applications that only requires a very small physical memory footprint (384MB). The MES also defragments the MS page file, improving application access speeds and increasing the density of VMs per server.

2. Disk Driver

VirtualStorm leverages a disk I/O driver to access application resources rather than streaming an entire application image to the end user. As a result VirtualStorm takes advantage of redirection technology to simply point the end-user to the application. This greatly improves the application response time and end user experience. VirtualStorm’s I/O driver is a filter driver that directs the application directly to the VMDK image thereby eliminating chatter between virtual disks. VirtualStorm DOES NOT direct over the virtualized bus. It redirects over the SAN instead.

3. Centralized Application Repository

VirtualStorm provides a centralized application repository that allows thousands of users to concurrently access the same virtualized application. The repository appears as a mounted disk within the virtual image and VirtualStorm’s I/O driver simply writes into the VMDK.

“We looked at several ways to minimize the base image, but all existing application virtualization techniques were either downloading or displaying the applications over the network, and the latency hampered usability.”

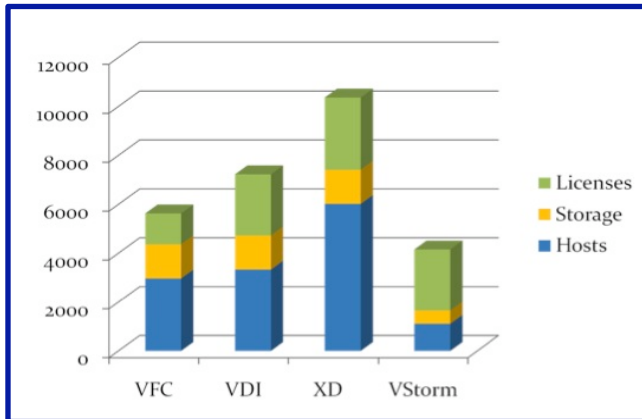
4. Enterprise Management Console

The enterprise management console is a central location from which to manage the life cycle of all applications and endpoints (fat, thin and virtual). The EMC uses a small agent that is deployed on the endpoints and the applications are virtualized and stored on a single disk repository. All patch updates and software rollouts are done once and instantly sent to thousands!

Real CAPEX Savings

Simply add VirtualStorm to your VDI environment and you'll witness accelerated access times, increased availability and end-user security while experiencing an ROI typically of less than 6 months.

Furthermore VirtualStorm has a fixed desktop image of just 1.2GB that will not grow. This



dramatically reduces storage requirements by a factor of 15 to 1 when compared to typical VDI solutions.

VirtualStorm also radically reduces the number of back-end servers that are required too. This is because the density of running desktop images per

host can be substantially increased since each image only requires 384MB of RAM per virtual machine. Tests have shown that VirtualStorm delivers up to 3 times the density of VMs to servers as other comparable VDI solutions.

Carbon footprint is reduced on average, by a minimum of 70% and overall infrastructure costs are reduced by a factor of 50%, when compared to typical VDI solutions.

The Power of One™

VirtualStorm simplifies VDI administration and management because there is:

- ONE OS desktop image to manage
- ONE app' repository serving all endpoints
- ONE location for backups and disaster recovery
- ONE console to manage different types of endpoints (fat, thin and ultra thin)

VDI Done Right

VirtualStorm is the VDI solution that Enterprises have been searching for. It's the next generation of VDI solutions that solves large-scale deployment challenges. VirtualStorm allows current virtualization solutions to scale cost effectively to 100,000 users while enhancing the end-user experience, and simplifying VDI administration.

VirtualStorm delivers:

- The most scalable VDI solution
- The best performing VDI solution
- The best end user VDI experience
- The most manageable VDI solution
- A real reduction in VDI TCO

VirtualStorm combines best industry practices and best of breed VDI technology and to allows customers to experience the benefits of extreme virtualization.

For more information about VirtualStorm

- **Web** : <http://www.VirtualStormNow.com>
- **Email** : sales@virtualstormnow.com
- **Call** : (603) 766 4986

