Huawei All-Flash VMware VDI Solution
-- Eliminating Pain Points of VDI to Provide Excellent User Experience at a Low Cost

VDI Challenges

Poor user experience

Services that spike system usage, such as boot storms, virus scans, and patch installations, intensify system pressure and slow down I/O response, significantly affecting customer experience.

Time-consuming O&M

VDI has become the first choice of large enterprises, because it can greatly reduce the costs of physical machines. However, if traditional storage with SAS disks is used to support 2000 VMs for over 20 hours, the performance will not be able to support the rapid provisioning of VDIs at scale, affecting business rollout.
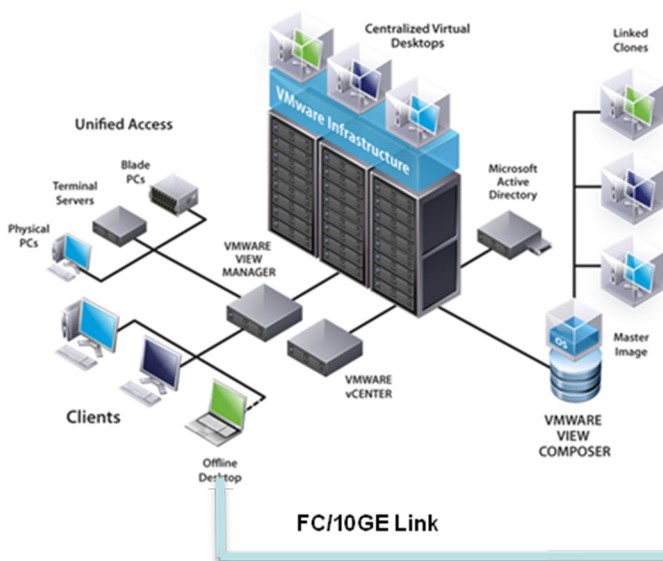
High cost

In a VDI solution, the investment on storage accounts for 25% to 40% of the total costs. In a VMware-based VDI solution using traditional storage, the costs are hard to decrease. Therefore, reducing the VDI costs has become a pressing issue.

Huawei VMware VDI Solution

The Huawei OceanStor Dorado V3 all-flash VMware VDI solution supports the quick deployment of thousands of workspaces. The solution's performance scalability makes it capable of supporting the concurrent running of thousands of workspaces, without compromising on a smooth business experience.

VMware Horizon View VDI Solution

Storage For VDI

Data Sheet

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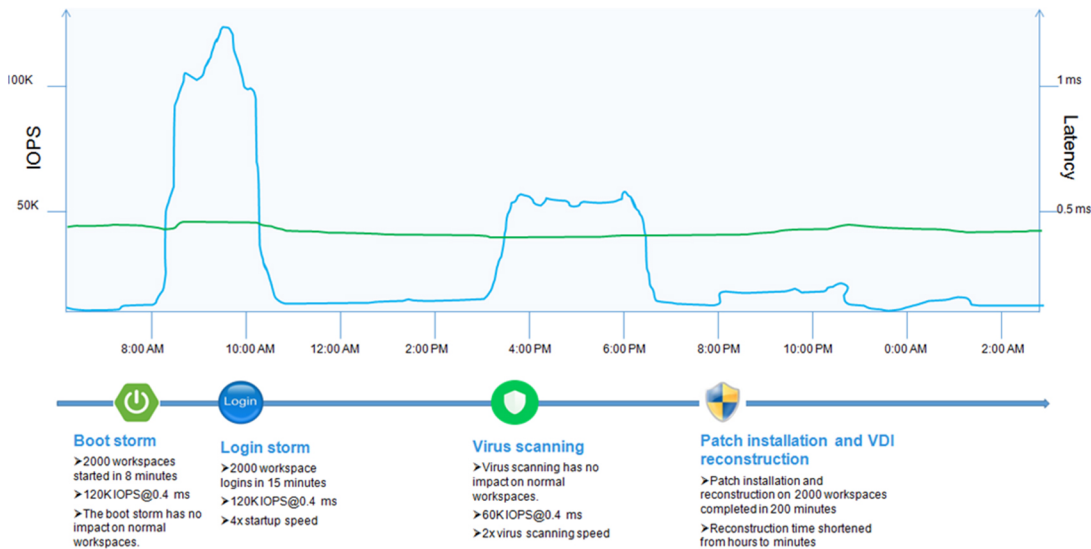
Highlights of the Huawei VMware VDI Solution
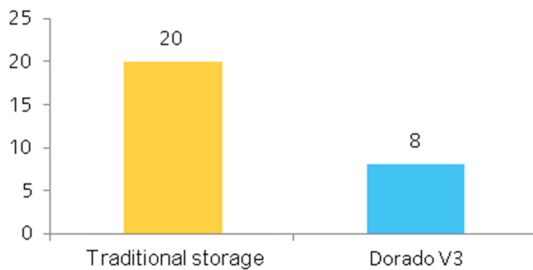
Optimal user experience

The stable high performance and 0.5 ms latency enable Dorado V3 all-flash storage to cope with boot storms, login storms, virus scans, patch installations, and desktop reconstructions with ease, greatly improving user experience

Boot storm
- 2000 workspaces started in 8 minutes
- 120K IOPS@0.4 ms
- The boot storm has no impact on normal workspaces.

Login storm
- 2000 workspace logins in 15 minutes
- 120K IOPS@0.4 ms
- 4x startup speed

Virus scanning
- Virus scanning has no impact on normal workspaces.
- 60K IOPS@0.4 ms
- 2x virus scanning speed

Patch installation and VDI reconstruction
- Patch installation and reconstruction on 2000 workspaces completed in 200 minutes
- Reconstruction time shortened from hours to minutes

Quick O&M

The Huawei VDI solution effectively reduces planning and deployment time. Workspaces can be allocated to 2000 users in only 8 hours, doubling the original O&M efficiency.

2000 VDI deployment time (hours)

Cost-effective

Dorado V3 all-flash storage employs a completely new deduplication and compression algorithm. The deduplication and compression reduction ratio can reach 6.1:1 in the VMware Horizon View link clone scenario, and the data reduction ratio is up to 10:1, saving on the costs of disks and effectively lowering VDI costs.

Deduplication Ratio:	2.5:1
Compression Ratio:	2.4:1
Data Reduction Ratio:	6.1:1

Data Sheet

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Typical Configurations

Hardware	Configuration
Storage	Dorado6000 V3 with dual controllers, 25 * 1.8T SSD
Storage	OceanStor 5500 V3, 50* 1.8T SAS
Server	2*Huawei RH2288v3 2 * CPU 2620 v4 Mem 128 GB
Server	3*blade servers E9000 16 * CH121 V3 2 * CPU 2600 v4 Mem 256 GB
OS	VMware ESXi6.5
FC switch	2*SNS5120
GE switch	2*CE5850
Test tool	LoginVSI

For More Information

To learn more about Huawei storage, please contact the local office or visit Huawei Enterprise website http://e.huawei.com.

Huawei Enterprise APP   Huawei IT