Nimble Storage, Inc.

Team

- Varun Mehta CEO, VP Eng.
 - VP Eng PeakStream, Data Domain, Panasas, FastForward. NetApp, Sun.
- Umesh Maheshwari CTO
 - Technical Director, Data Domain. Zambeel, Intertrust. PhD MIT. IIT Gold Medal for top graduating student.

Mission

We will provide the easiest-to-integrate flash enabled storage to the data center.

Current Problems

- Server performance is overwhelmed long before storage capacity
- Servers have limited DRAM (0.1% of disk)

- The problem affects all levels of users
 - PeakStream, Yahoo, Facebook, Oracle,
 Cadence

Flash Challenges

Flash isn't a replacement for disk or DRAM

	Cost/GB	4KB Page Access Time
DRAM	\$100	0.32us
Flash	\$15	75us read, 15,000us write
FC Disk	\$2	5,000us

- Limited erase cycles
- Terabyte scaling issues

Nimble Technology

- New flash optimized file system
 - Log structure: speeds up writes
 - Efficient compaction
 - Efficient index
 - Compression: 2x or more
- No custom hardware
- Frictionless insertion

Two Product Families

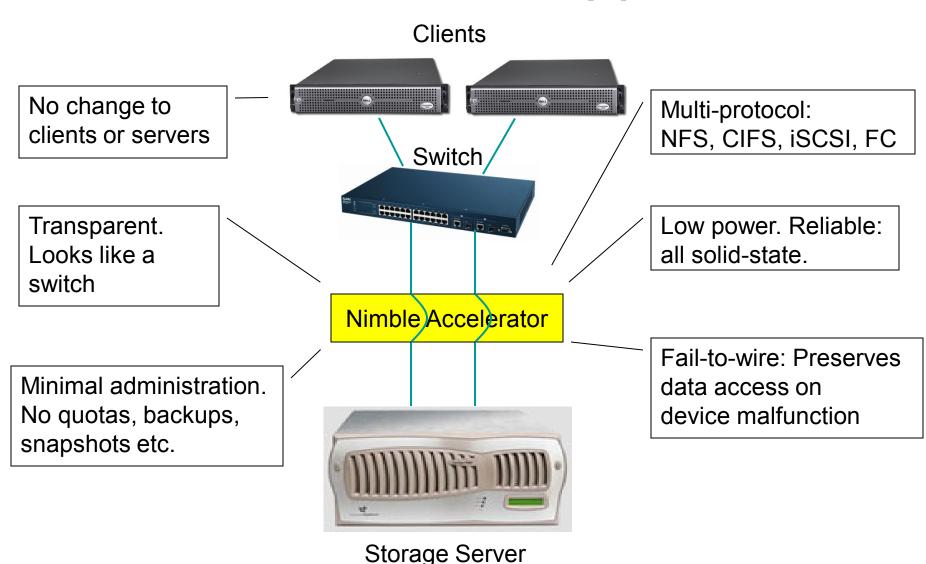
1. Accelerator

- Works with existing servers: NetApp, EMC
- Transparent: easy to add or remove

2. Storage server

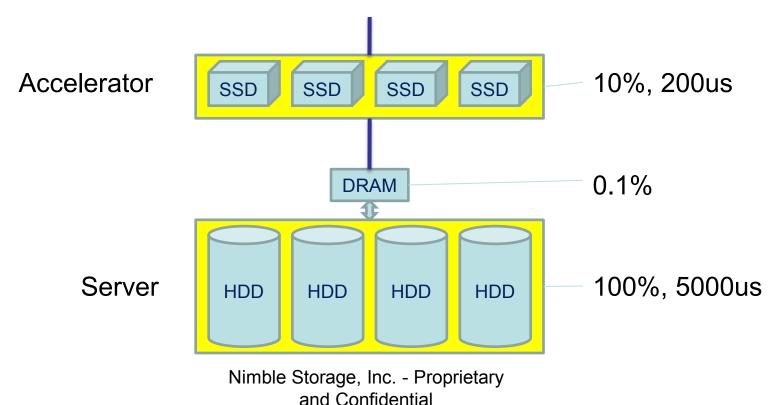
- Handles very large working sets
- Optimized for slow, large disks
- Leverage common technology

The Accelerator Appliance



Compelling Performance

- Increases cache by 100x
- Reduces latency by 25x



Accelerator Pricing

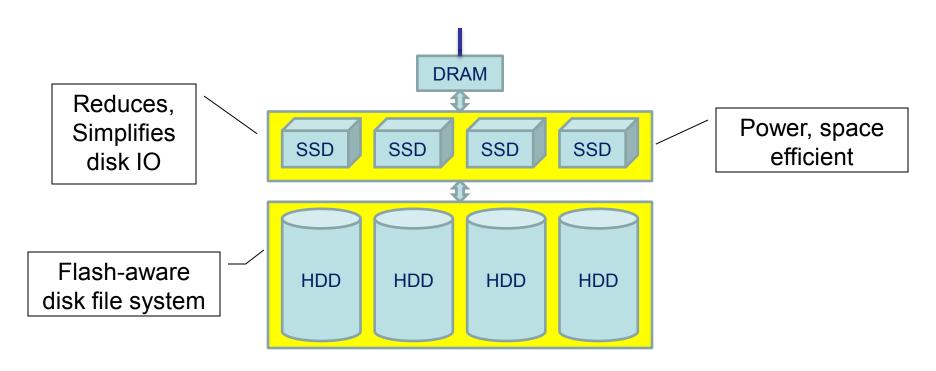
- Gross margin 80%
- Product line
 - 256 GB cache: \$30K
 - 2 TB cache: \$150K

Accelerator Alternatives

	IOPS	Access Time	2007 List Price	Rack Space	Power	Watts per 1K IOPS	\$ per IOP
Nimble .5TB	200,000	200us	\$69,000	3u	250W	1.3	\$0.35
Gear6 .5TB	500,000	500us	\$700,000	42u	4800W	9.6	\$1.40
NetApp DS14mk4 Disk shelf	2,800	5ms	\$41,000	3u	370W	132.1	\$14.64

Product 2: Storage Server

 Get high performance from SLIDS: slow, large, inexpensive disks



Specialized Server Applications

- Stay out of general purpose market
- Focus on feature set by vertical
 - ERP/OLTP database servers, log servers
 - Virtual servers
 - CAD, software development, finance
 - Video serving, rendering
 - Energy, National Labs, and Security

Server Competition

- Clustered NAS servers
 - Isilon, Panasas, NetApp GX, Veritas, Microsoft
- Specialized servers
- Nimble advantages
 - Far less expensive
 - Optimizes latency sensitive applications: OLTP
 - Simpler administration than clusters

Market

- Our technology is a basic building block for flash to penetrate the enterprise
- It is applicable in varying degrees to the entire \$15b networked storage market

	2008	2009	2010
NAS (\$M)	3,557	3,944	4,266
iSCSI (\$M)	1,586	2,378	3,092
FC SAN (\$M)	10,192	10,373	10,416
Total Networked Storage	15,335	16,695	17,774

Source: IDC

Development Milestones

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Milestones	Design	First Prototype	Complete Core System	Perf, Test, Fit & Finish	Beta Start	Ship	Cust Ramp, Series B	Release 2 Prototype
Cash Burn (\$1000s)	\$618	\$989	\$1,139	\$1,391	\$1,397	\$1,610	\$1,574	\$1,660
Cumulative Burn	\$618	\$1,607	\$2,747	\$4,137	\$5,534	\$7,144	\$8,718	\$10,377
Headcount	7	14	16	21	24	25	26	29

Headcount Summary

Eng Total	6	11	13	14	14	14	14	15
IT Total	0	1	1	1	1	2	2	2
Sales Total	0	0	0	2	4	4	4	5
Marketing Total	1	1	1	2	3	3	3	3
Support Total	0	0	0	1	1	1	1	2
G&A Total	0	1	1	1	1	1	2	2
Total	7	14	16	21	24	25	26	29

Why Nimble?

- Technology
 - File system optimized for flash
 - Compression will double effective cache size
 - Strong file system expertise
 - Strong product delivery experience
- Compelling price/performance
- Big market
- Low friction market entry
- Hiring: know key developers and advisors