



How is this possible?

5 VM's with 10G Disk need only 9G total space

HROUG

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Agenda

- NetApp Data Deduplication
 - How it works
 - Demo dedup VMware Guest-OS-Images
- SnapManager for Virtual Infrastructure
 - "Fast Backup is fine Fast Restore is finer"
- Live Demo
- Q&A



Deduplication

- Deduplicates ANY Data
- Fully transparent for Applications
- Operates at Block Level

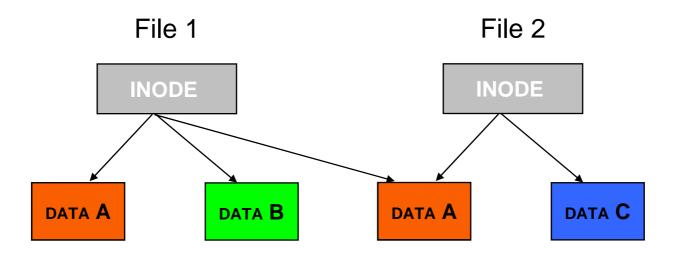
Based on "WAFL" Technology of DataOntap



Deduplication – Principal Functionality

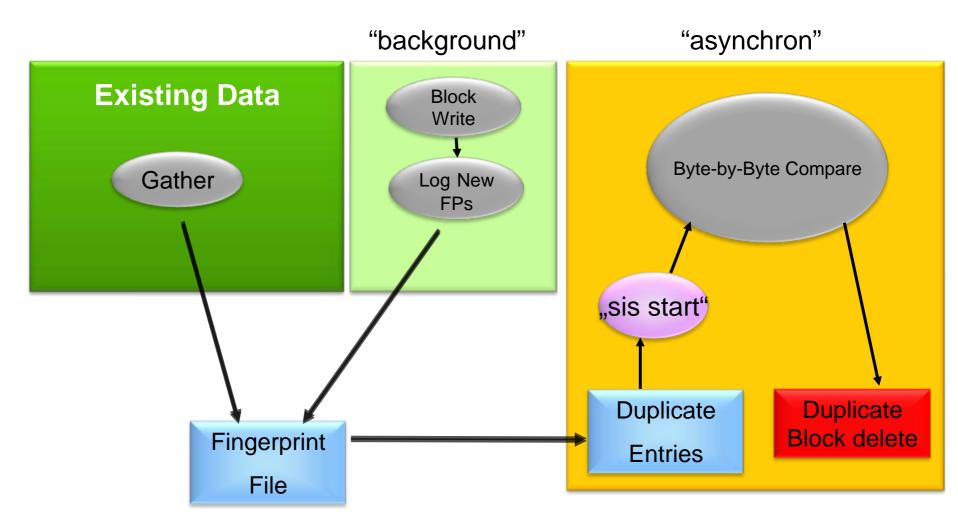
- "WAFL" the Storage internal Filesystem
 - access to data with pointers

After Deduplication





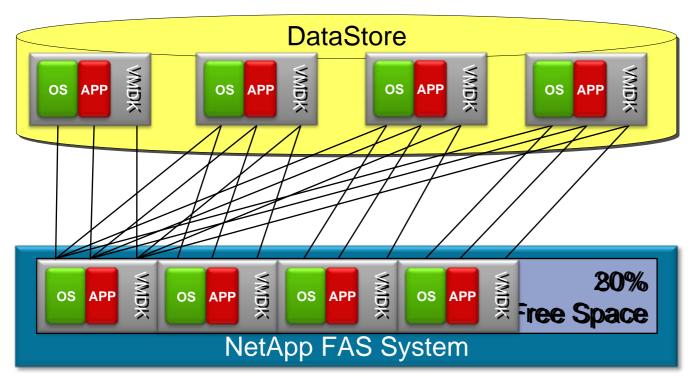
Deduplication "in-depth"





Deduplication and Servervirtualization

By default every VM has its own OS Image stored on disk



Actual trend: VDI Environments

Enourmous Space savings!

Netapp allows Resourcesharing also for Storagecapacity

→ Take Your Virtualization to the next level!

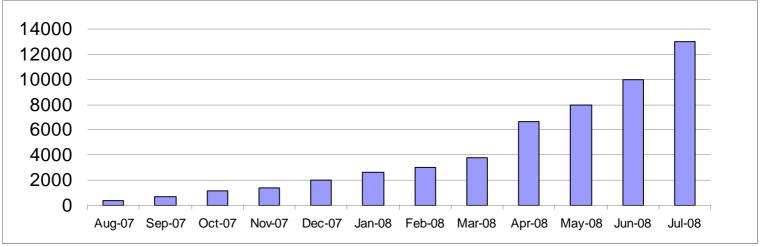


NetApp Dedupe Worldwide Leadership



Over 13,000 Systems
Over 3,000 Customers
Over 150PB Usable Capacity

NetApp Deduplication - Cumulative System Licenses



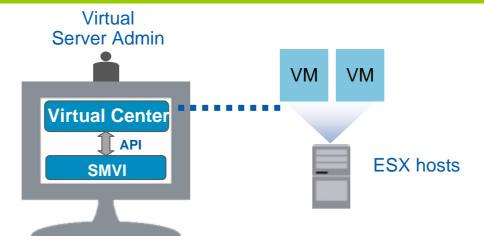
"Russell said that on the deduplication front...[NetApp's] deduplication license, which allows its customers to turn on dedupe for free in their primary storage systems, has overtaken Data Domain's deduplication products in number of systems shipped, number of customers and number of usable petabytes shipped."

- Dave Russell, Gartner Research VP - Quoted August 14, 2008



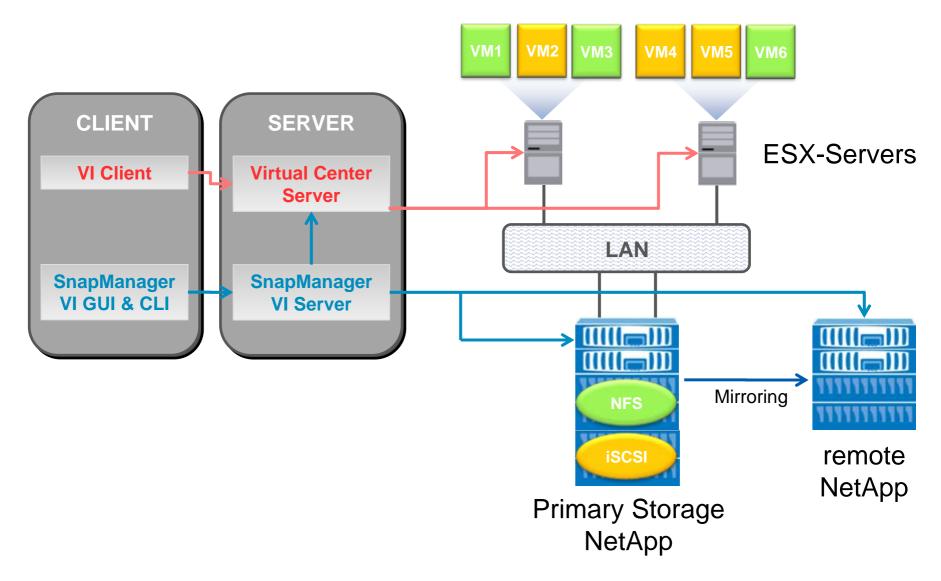
SnapManager for Virtual Infrastructure (SMVI)

- Backup and Restore VM-Images in Minutes
- Consistent replicate VM Images to remote Site
- Works with Virtual Center Server





Live Demo - Setup







Thank You!

www.netapp.com