

Panasas® ActiveStor® 16

HYBRID SCALE-OUT NAS WITHOUT COMPROMISE: PERFORMANCE + MANAGEABILITY + RELIABILITY AT SCALE

PANASAS

MAY 29, 2014

PANASAS ACTIVESTOR PLATFORM



ActiveStor Appliance



Powered by PanFS storage operating system

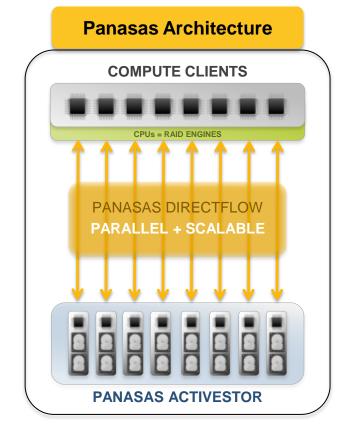
- New: 122.4TB per shelf → scales to 12PB
- 1.5GB/s per shelf → scales to 150GB/s



- Metadata access
- System management
- NFS &CIFS access



- Parallel data access
- Advanced caching



- Single global namespace
- Single system to manage
- Seamless scaling with no downtime
- Pay as you grow
- Linear performance scaling

INTRODUCING ACTIVESTOR 16 WITH PANFS 6.0





ActiveStor 16

• On June 10, announcing ActiveStor 16 and PanFS 6.0

- New hybrid scale-out NAS appliance
- RAID 6+ triple parity protection
- Extended File System Availability (EFSA) Ensures Business Continuity

NEW: ACTIVESTOR 16 WITH PANFS 6.0

ActiveStor 16: Platform for PanFS 6.0

- 50% higher density, leveraging HGST UltraStar[®] He⁶ 6TB drives
- Faster director blade speeds RAID rebuilds
- Flash sized for RAID 6+

PanFS 6.0: RAID 6+ Triple Parity Protection

- Per-file, distributed RAID 6+ overcomes limitations of traditional RAID
- Reliability increases with scale, not decreases
- Quickly restore specific files for disaster recovery, not whole file system

ActiveStor 16



6TB Drive

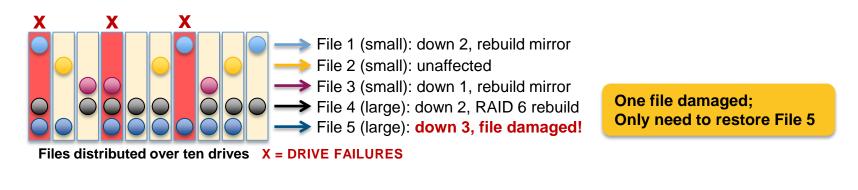


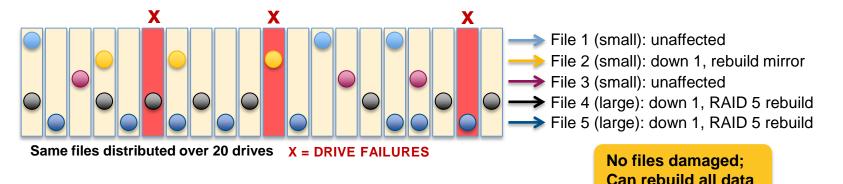




Per-file Distribution Reduces Risk at Scale

- Small files are triple mirrored, large files are striped
- With more and more drives, three drive failures (exceeding fault tolerance) are less and less likely to affect any given file





REVOLUTIONARY AVAILABILITY MODEL



- Extended File System Availability (EFSA) Ensures Business Continuity
 - File system remains available when other systems would be down (even after one-too-many drive failures)
 - Directory structure stays navigable and all unaffected files can be accessed normally
 - Only a small number of affected files will be unavailable until restored from backup
- Replaces "All Up/All Down" Model of the Past
 - Targets an "always on" architecture



THANK YOU!



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