



Scale Out* NAS for the Masses

*I mean “Scale Out” and “Scale Up”

Spectrum Scale User Group
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Me Me Me Me Me and OCF

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I only have 15 Minutes!
I'm making an observation, come talk to me for the techy bits.

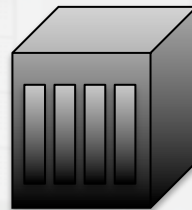
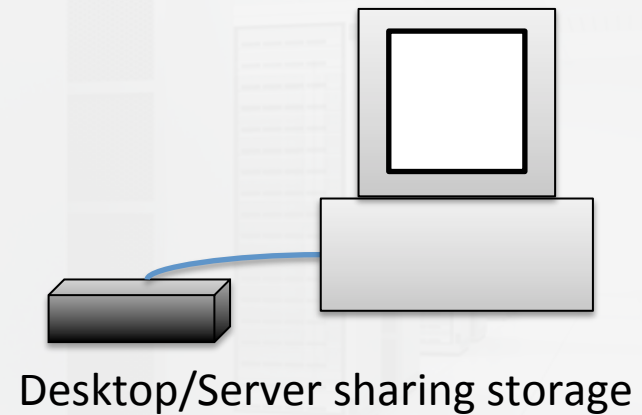
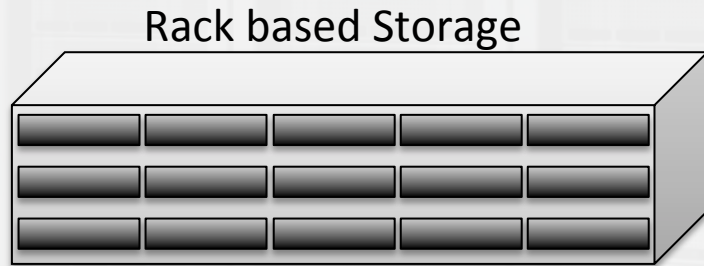
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(if you're lazy)

The NAS Problem

- More and more storage is required.
- Storage everywhere!
- Cost per GB, cost per NAS
- Resilience and high availability
- Scaling – New systems



Desktop Multibay Storage

Requirements to solve

- Scalability or “Building block” storage
- Centralised storage, centralised management
- Storage as a service, sell space
- Migration path, upgrade path
- Reduce cost

Range of solutions

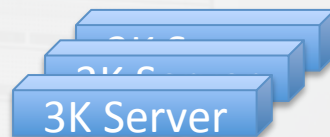
- Enterprise “Turn Key” storage solutions.
- Cost, Paying for features that might not be required
- Not flexible with options and environment support
- How do you upgrade the hardware? With a Fork lift?
- Active community? how do you speak to the vendor?

Spectrum Scale Up and Out!

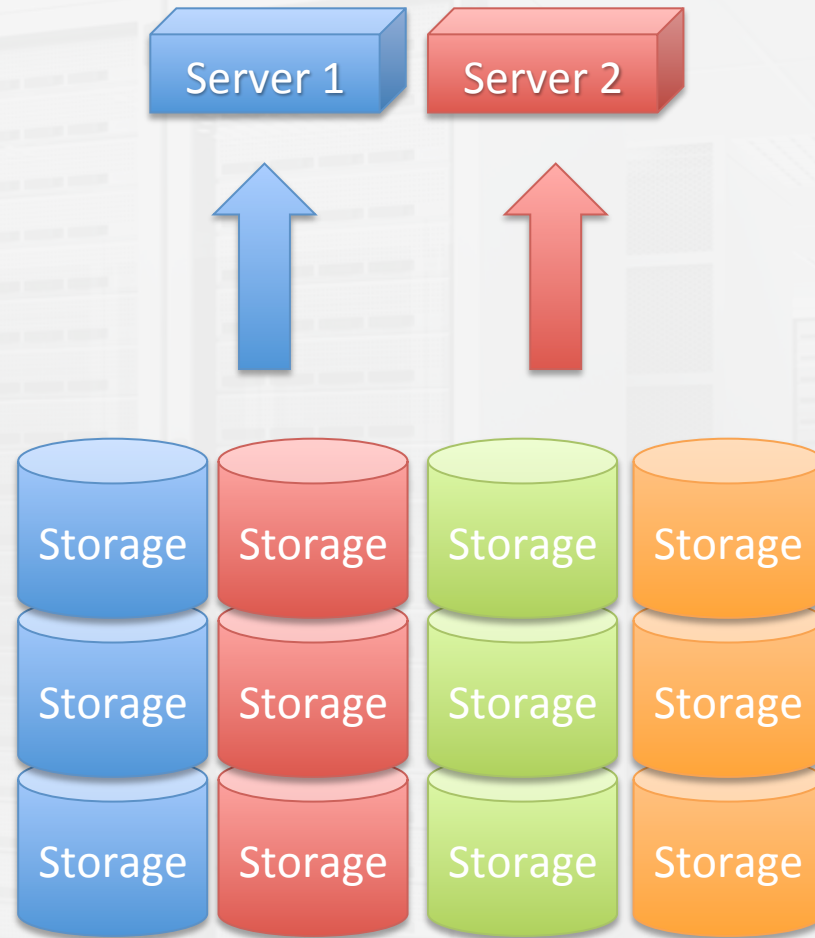
- It's in the name! It has a history!
- Scale up with expansion shelves
- Scale out with more block storage
- Scale the Spectrum Scale servers
- Scale the export/protocols services
- Scaling improves performance
- Pay for the bits you need!



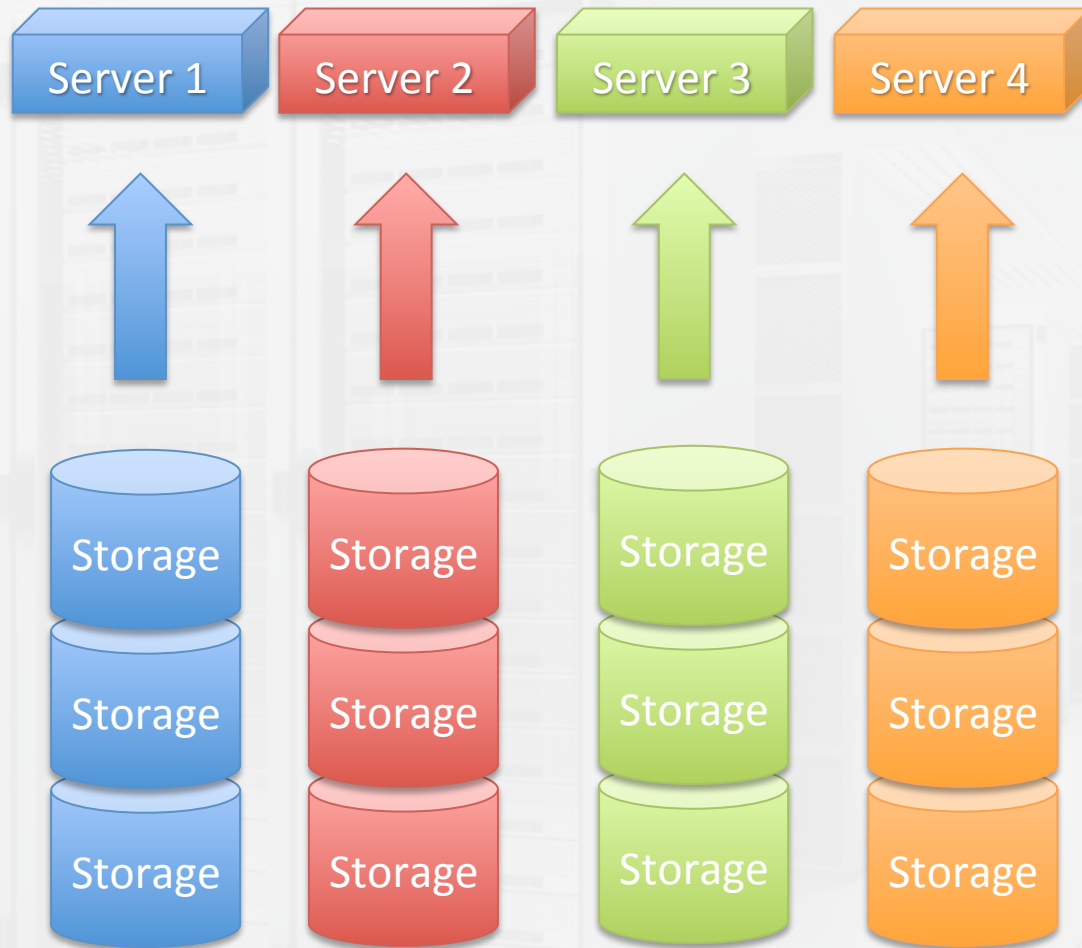
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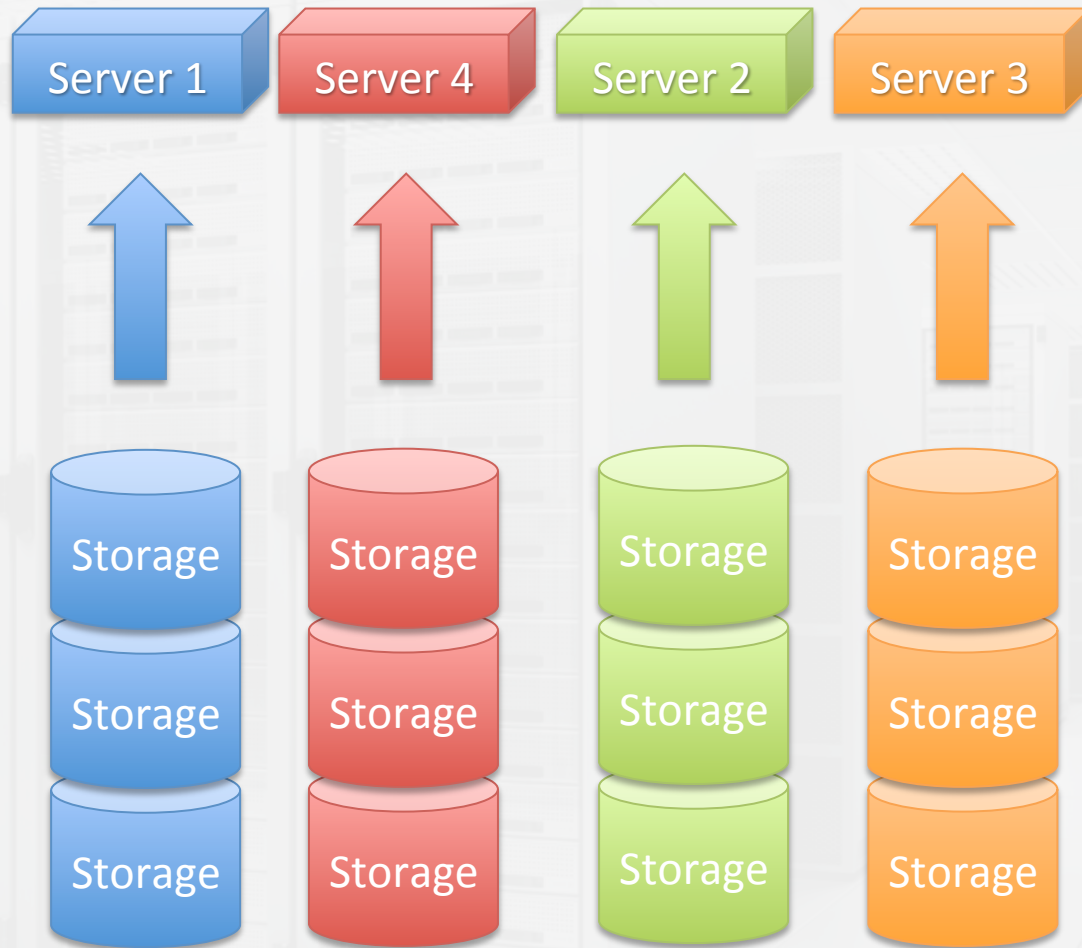
Scale Up



Scale Out

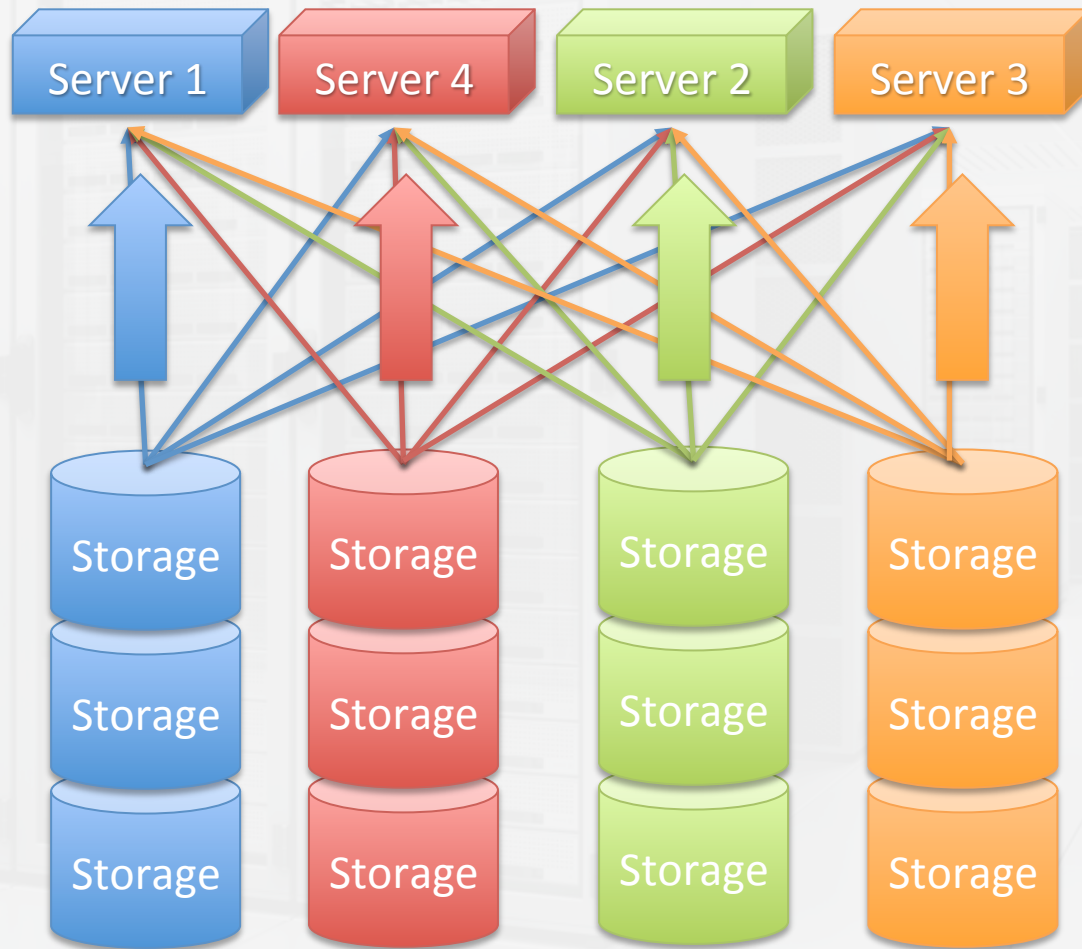


Scaling



Being clear

Single Name Space

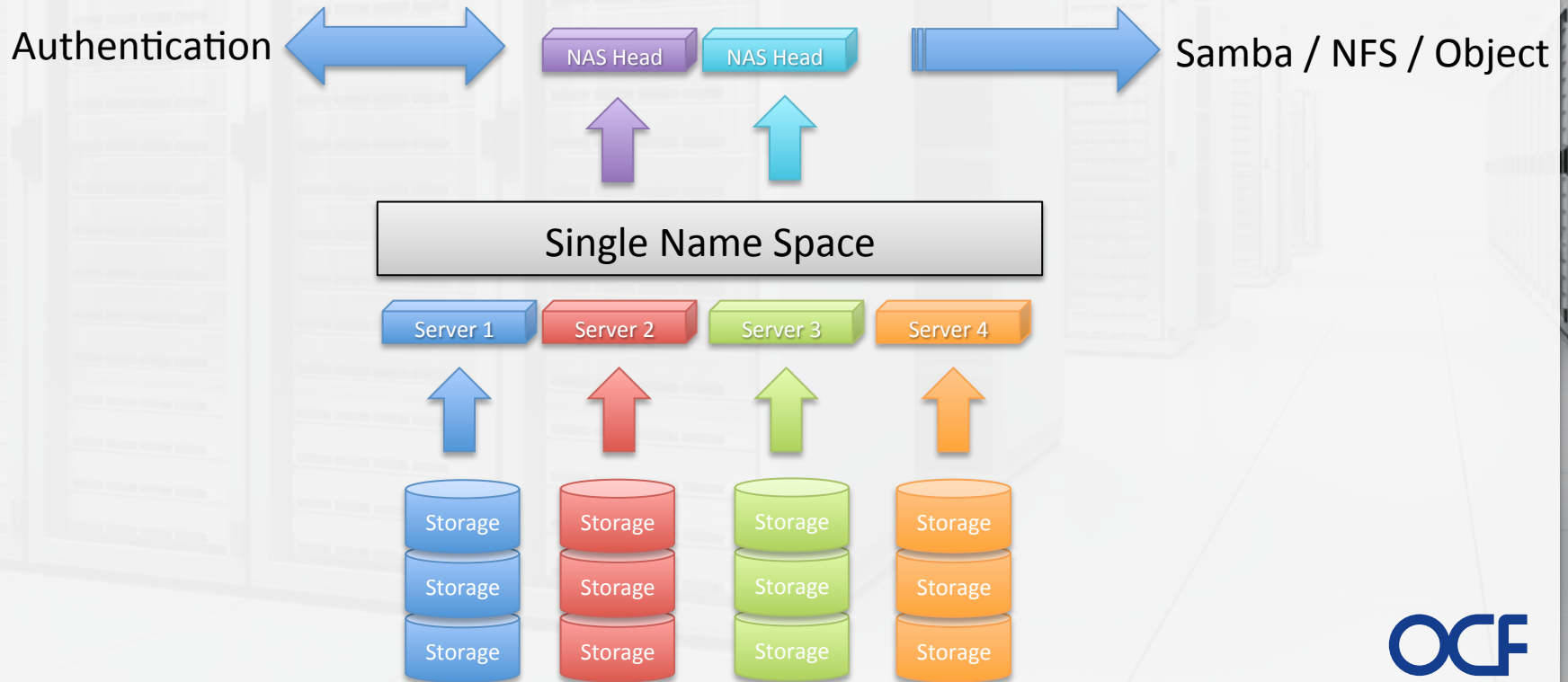


Why I think it's ideal

- It does more than just provide storage!
- Multi Site Replicas
- Drain existing storage
- Rolling upgrades and migration
- Tiering
- Tuneable
- No vendor lock in
- No hardware restrictions

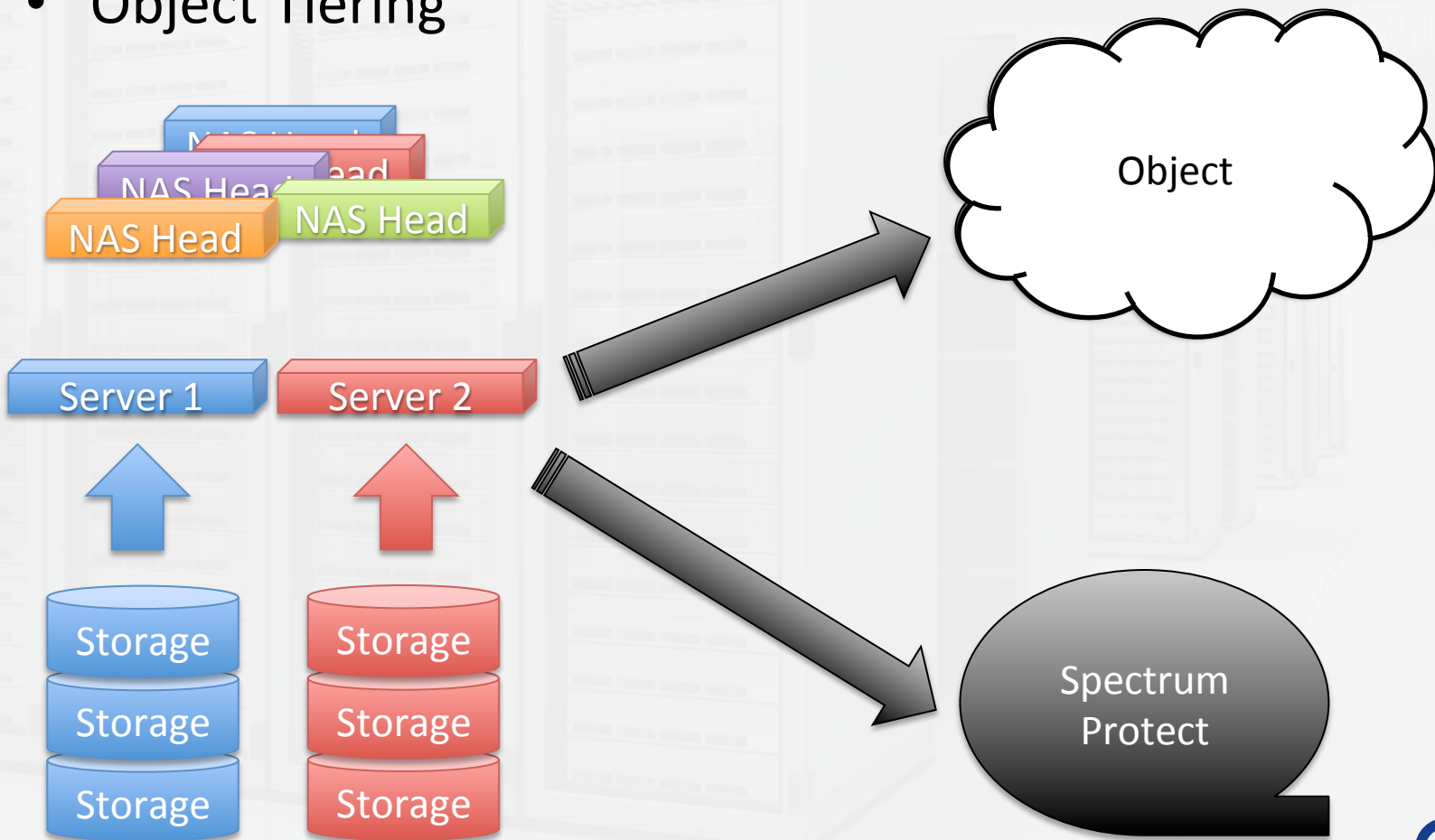
The NAS bit!

- NFS, SMB and Object
- You're not locked in to a one stop solution, however there is one!
- Use your own authentication



Beyond your own storage

- Tape Tiering
- Object Tiering



Thanks

- Customers
- Business Partners
- Spectrum Scale User Group