

Towards a Common Scalable Security Infrastructure

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Summary

- Data access benefits from parallelism
- Any shared data access infrastructure of reasonable size requires securing access
- Out of band puts a new set of requirement on the security infrastructure
- •A capability/credential mechanism is god for all data storage types we attempt to handle (files, objects, volumes)

What is required from a security infrastructure

- ♦ Few trips to any server
- Work with untrusted clients
- Delegation (credential passing)
- Work on secure and insecure infrastructure
- ♦ Take advantage of secure infrastructure where it exists
- Computationally acceptable to data servers



Where and what is needed

- NFS4 has extensive security provisions credential/capabilities can be accommodated
- SCSI volume access control