

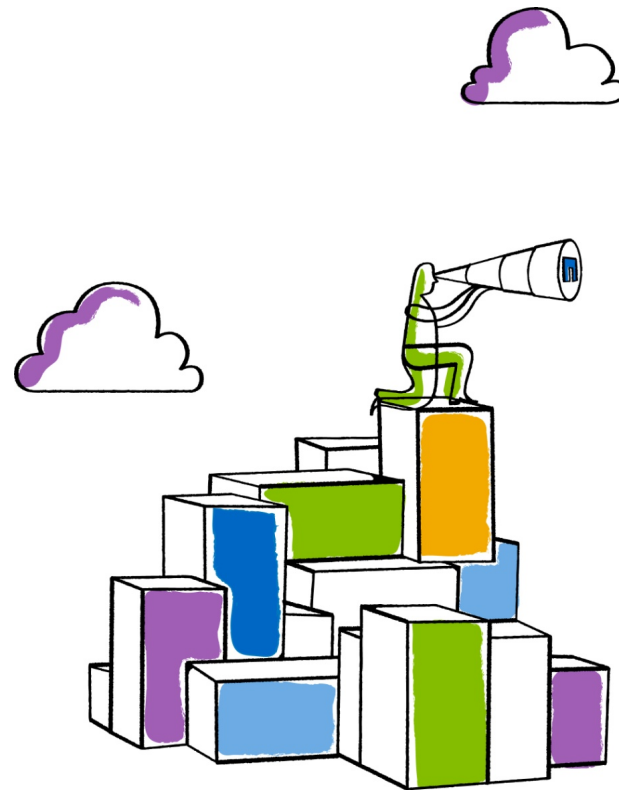


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NFSv4 Multi-domain FedFS

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IETF 85





Draft-adamson-nfsv4-multi-domain-access

- Motivated by multi-domain FedFS questions at the FAST 2008 pNFS BOF
- draft-01 in October 2009 with Nico Williams and Kevin Coffman as co-authors
- Tried to address all federated access issues, non-domain aware file system issues, remote groups....
- Coordinated with ABFAB, KRB, Kitten WGs
- Work stalled as the general federated access problem is complicated and has many players



Multi Domain Access with a FedFS Focus

- FedFS draft work is being completed
- Refocused the task at IETF 83 to solve NFSv4 multi-domain FedFS specific issues
- Split into two tasks in the new NFSv4 WG charter
 - A requirements draft
 - A best practices draft for exporting non-domain aware POSIX file systems in an NFSv4 multi-domain FedFS



Requirements Draft

- draft-adamson-nfsv4-multi-domain-federated-fs-reqs
- NFSv4 multi-domain FedFS definition
- Constraints and clarifications to the current NFSv4.0 and NFSv4.1 protocols to fully enable multi domain FedFS.
 - name@dns_domain constraints
 - Security mechanism constraints
- Resolving cross domain authorization information
 - A bit of work todo here



Related Work

- RFC 6680 : Generic Security Service Application Programming Interface (GSS-API) Naming Extensions
 - API used to resolve authorization information
- Kitten and KRB WG are now combined with a new charter which should include these two drafts dealing with (cross realm) Kerberos Authorization data.
 - draft-ietf-krb-wg-cammac
 - draft-ietf-krb-wg-general-pac



What's Next

- I will submit draft-adamson-nfsv4-multi-domain-federated-fs-reqs-01 next week where I will:
 - Respond to draft-00 comments
 - Clean up the Cross Domain Authorization section
- Please review!
- Submit first best practices draft by IETF 86.

Thank you

