





XRootD CL plans

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Outline

- Ongoing work items
- Proxy delegation
- Put/get requests
- Dynamic source selection
- Release 5.0.0 plans

Things in the pipeline

- **Vector writes**
 - Add support for vector write to the client API
- **Redirect trace-back**
 - Trace all redirections
 - Dump the trace-back in the logs when the request is resolved
 - Will make debugging much easier
- **Docker based distribution**
 - Create Docker image with vanilla XRootD setup
 - Easier now that XRootD can run on hostnames starting with numbers

Proxy delegation

- Server generates private / public key pair
- Client creates a gsi proxy chain from his certificate and the key obtained from server
- Server adds the public key to the chain and can now take actions on behalf of the client

Put / Get requests

- Once proxy delegation is in place
- Instruct data server to pull / push a file from / to another data server
- Meant as an replacement for current TPC mechanism

Dynamic source selection

- Inspired by Brian's plugin
- When the performance falls below certain threshold, the client asks the redirector for another replica
- After a certain period of time, the client evaluates if the performance is satisfactory

Support local files in XrdCl::File

- Add support for local files to XrdCl::File (move the logic from ClassicCopyJob)
- A file data access framework should support local files
- Get rid of 'root://localfile' syntax used to access local metalink files

Release 5.0.0

- Review the set of public headers
- Enhance the architecture so it is easier in the future to add new features without breaking ABI compatibility (compilation firewall)

Any requests from your side?



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