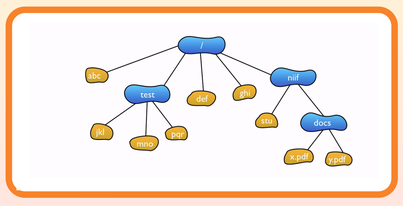
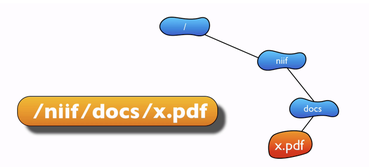
Chelonia

A lightweight self-healing distributed storage

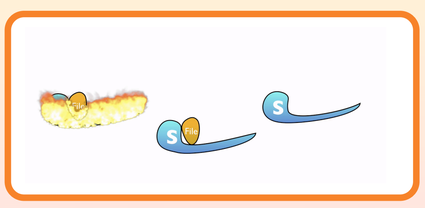


Chelonia has a global hierarchical namespace that allows all users to see exactly the same tree of files and collections.

Files in Chelonia can be referred to by Logical Names (LN), which are a paths in the Chelonia global namespace.

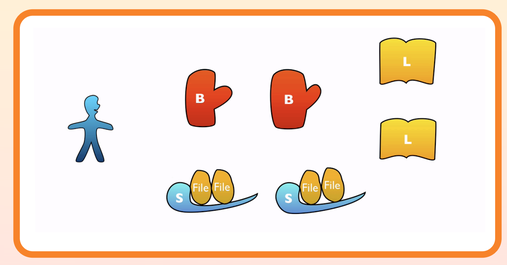


Chelonia ensures secure file transfer through the HTTPS protocol, and support for additional protocols can easily be added.

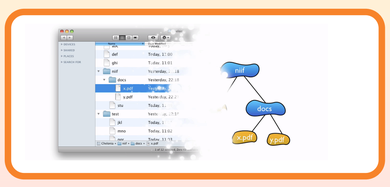


Files in Chelonia are replicated, and broken replicas are repaired automatically by the system. This makes Chelonia self-healing.

Chelonia is flexible in its setup, and it is possible to add or remove any service in the system without downtime or complicated reconfiguration.



Chelonia comes with a FUSE module, making it possible to handle the entire storage cloud as a local directory.



Third-party storage systems can be integrated into the Chelonia global namespace in a way similar to mounting remote file systems into a local file system.

Chelonia users can assign access policies to files and collections in the system, granting access to individual users or entire virtual organisations in a grid environment.

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KnowARC is confunded by the European Commission 6th Framework Programme under Contract number 032691