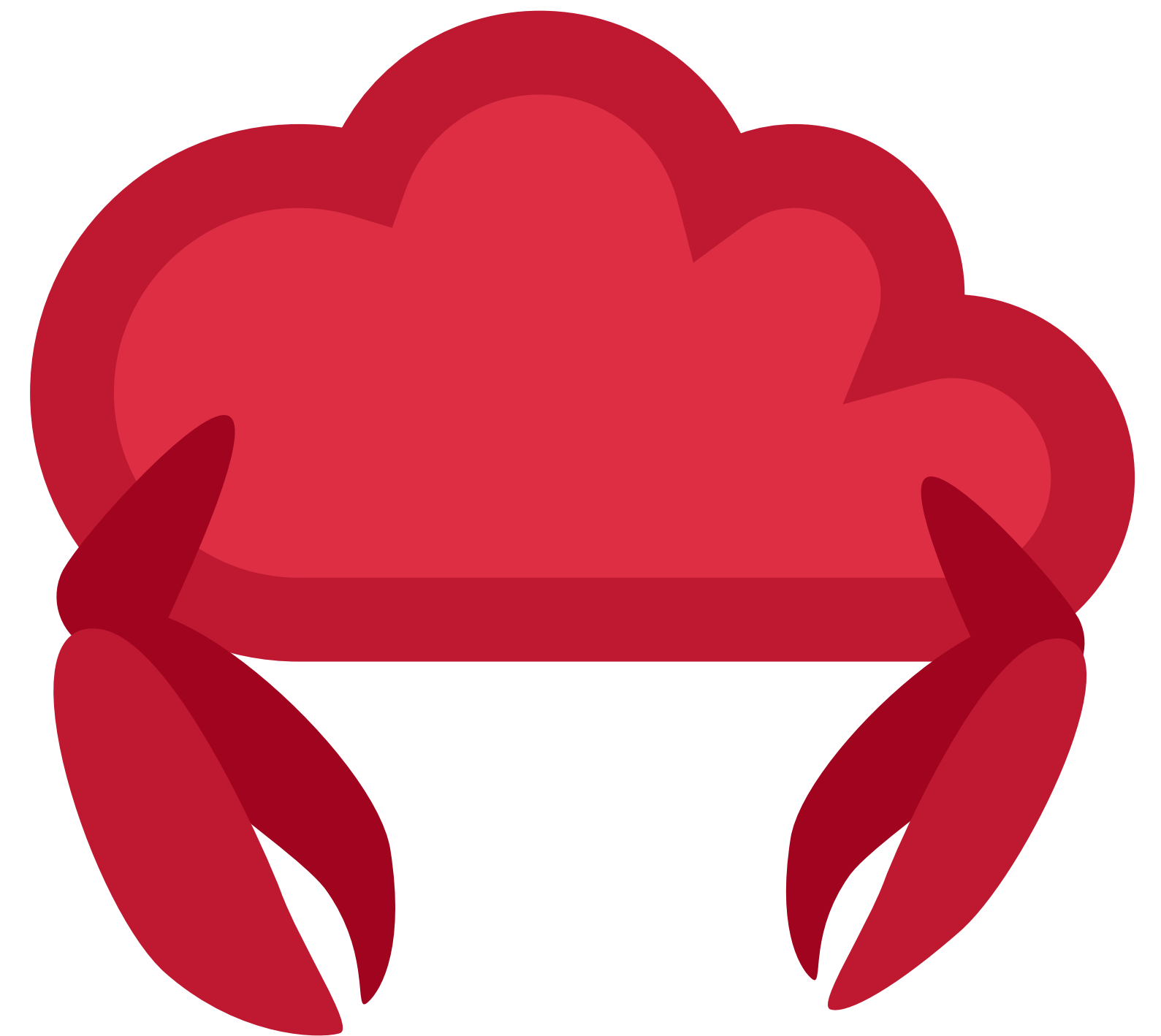Group 7

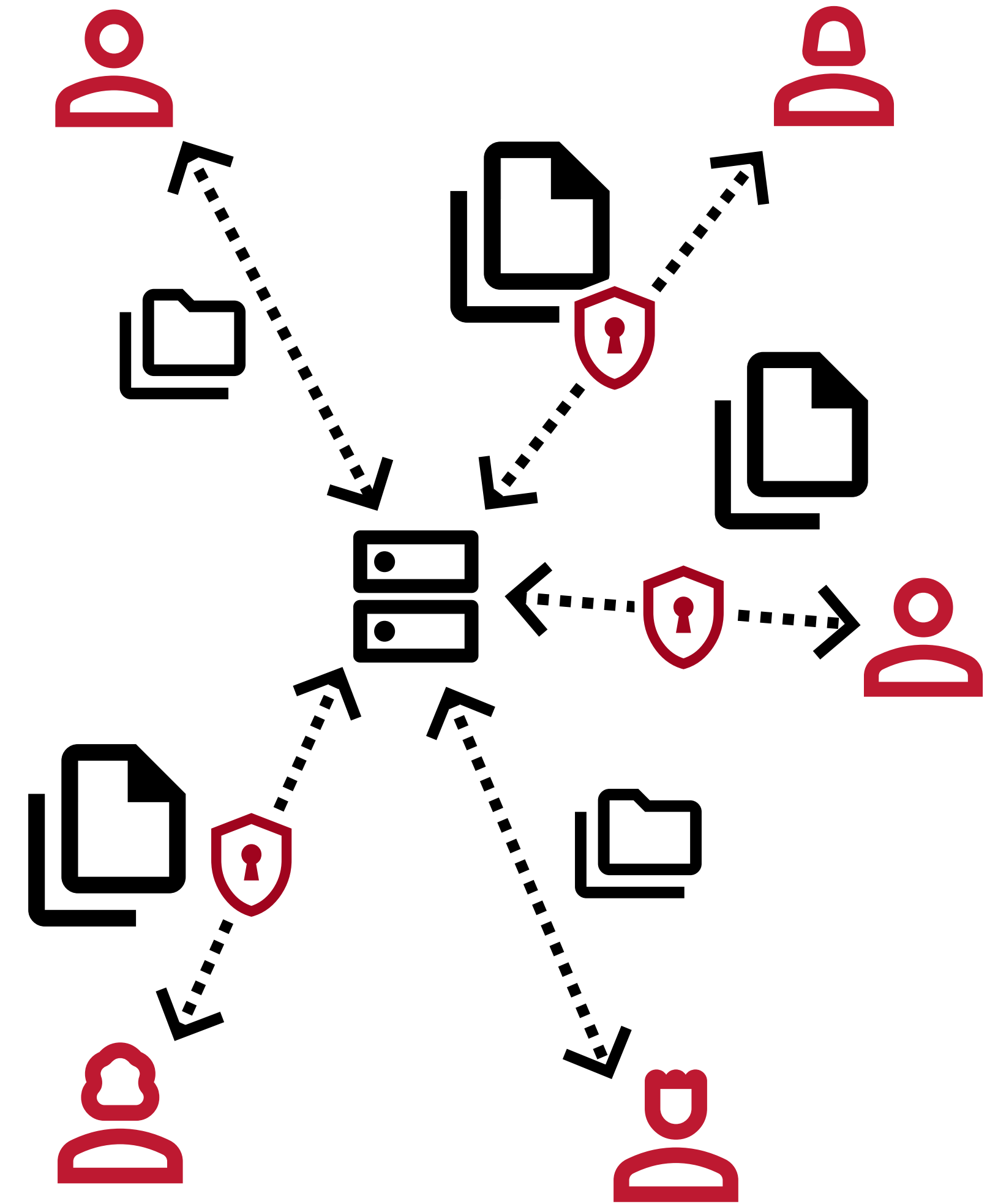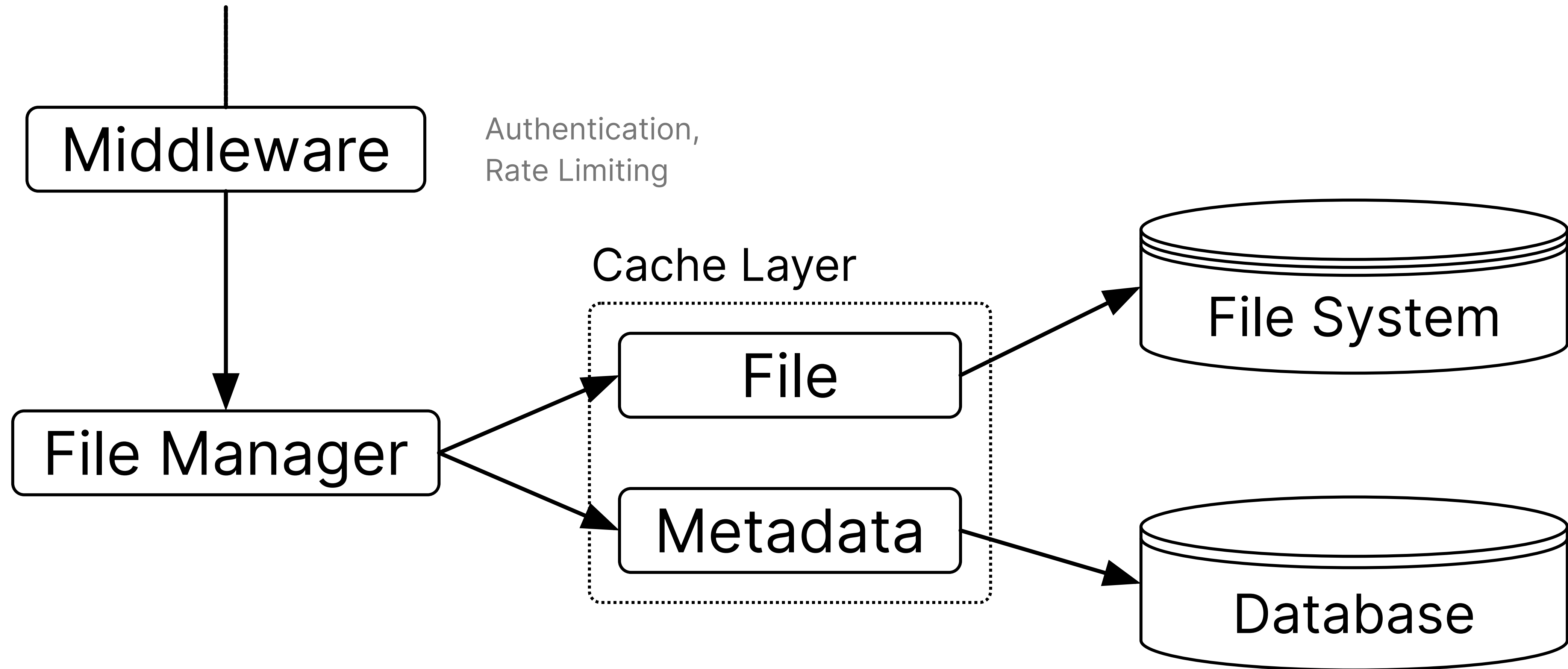# crabdrive

A cloud storage platform

Features

- Web interface for viewing and managing files
- File encryption
- Sharing files with other users
- File versioning

Architecture (Server-Request Handling)

Notes

- crabdrive should behave similarly to other cloud platform providers (Google Drive, OneDrive, etc.)

Features

- File encryption is zero trust (meaning no one – even with access to the server – can read your files)
- File versioning allows for restoring file contents from a specific point in time

Architecture

- Cache Layer for performance improvements; minimize disk operations (disk is bottleneck, data loaded in memory is faster)
- The filetree is stored inside a SQL Database
- Files are stored inside custom object storage

Libraries

- We use **axum** or **arctix** as a server framework/library