

My First Cloud Sharing Service

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1 Purpose of the Application

This application implements a distributed system for backing up a company's files and projects. This system respects the company's hierarchy (in a bubble-like disposition), where the managers and administrators have higher permissions to the company's files.

2 Main Features

- Authentication through password/certificates
- Access levels
- Write ahead
- Election of master peer (which owns the valid database at any moment)
- On wake up database update through RMI to the master peer
- Synchronization
- Name resolution in order to the access level

3 Target Platforms

- Java standalone application for PC/UNIX
- Java standalone application for Android (if time permits)

4 Additional Services and Improvements (if time permits)

- Server for access outside of Company through TCP API (just a bridge)
- Mobile application to get and backup files through Android