

Personal Cloud Storage Based On Raspberry Pi

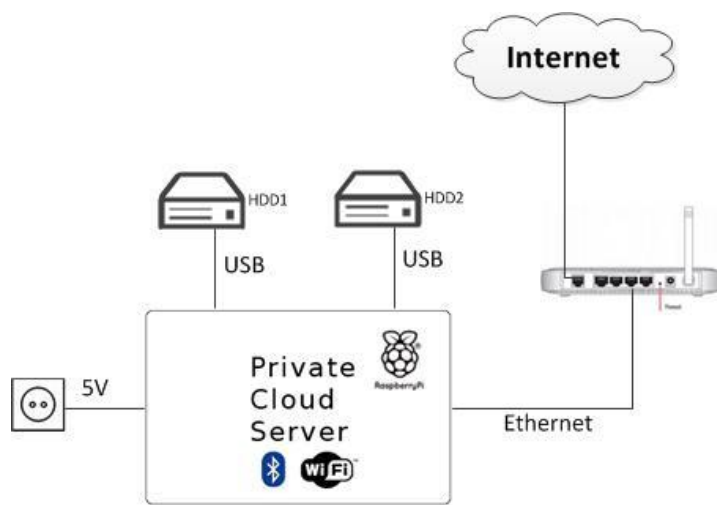


Figure: Basic hardware setup.

Main assumptions:

1. System will consist of 2 main components: Server and Client.
2. The server will be private, no multi-tenancy.
3. Server will run on Raspberry Pi (UNIX based system).
4. Client will run locally on the desktop.
5. Server will store and distribute data
6. As shown on Figure 1, server will use 2 drives, HDD1 for main storage and HDD2 for backup.

7. Server will be manage via Web Client App (something like Webmin)
8. There have to be a database for storing meta-data.
9. There have to be system for reading and storing meta-data of every file uploaded.
- 10.The system needs to ensure the secures and reliable connection between server and client.
- 11.There have to be system for uploading and downloading files (especially the large ones) to the server either via Web Client or Desktop client.
- 12.There have to be system that allows stream multimedia files.
- 13.There have to some kind of user management system in which the owner of the server can add a guest user with limited access (optional).