

File services

- Centralized remote file storage.
- Proprietary protocols.
- File Up- and Download.
- Multi client synchronization.
- Network file system support.
- Ubiquitous access.

Customer demands

- Integrated backup.
- Versioning.
- Sharing on user / group level.
- Secure access, Encryption
- Consistent availability.
- Federation support.

Driving factors

- Local hardware does not scale:
 - Systems interoperability
- Storage as a service
- Economy of scale: Cheap hardware, distributed system

Selected cloud file services

- Google Drive
- Dropbox
- OneDrive
- iCloud Drive
- Box
- Amazon Cloud Drive

Selected self hosting products

- Nextcloud, Owncloud
- Seafile
- Cozy
- Resilio

Nextcloud features

- Open source (PHP)
- Sync clients
- End-to-end encryption support
- Full text search
- Plugin extendability
 - CardDav
 - CalDav
 - LDAP support

Lightning integration

The screenshot shows a calendar application window titled "First Account" with a "Calendar" tab. The interface includes a menu bar (File, Edit, View, Go, Message, Events and Tasks, Tools, Help) and a toolbar with options like Synchronise, Event, Task, Edit, and Delete. The main calendar area is in "Multiweek" view, spanning from "Today" (23 February) to "22 March 2014". The current week is "CWs: 9-12".

The calendar grid shows the following events:

- Tuesday, 25 Feb: 10:00 Meeting
- Wednesday, 26 Feb: 10:00 Phone C...
- Thursday, 27 Feb: 10:00 Visit Sup...

The right sidebar displays a list of events:

- Today** (23 Feb): 10:00 Meeting
- Tomorrow** (24 Feb): 10:00 Phone Call
- Soon**: 06 March 2014 10:00 Visit Supplier