

File cloud

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 extensibility
 - CardDav
 - CalDav
- LDAP support

Lightning integration

The screenshot displays a calendar application window titled "Calendar" with a "First Account" tab. The menu bar includes "File", "Edit", "View", "Go", "Message", "Events and Tasks", "Tools", and "Help". The toolbar contains "Synchronise", "Event", "Task", "Edit", and "Delete".

The main view is a multiweek calendar for "23 February – 22 March 2014". The view is set to "Multiweek" mode. The calendar grid shows events for the following dates:

- Tuesday, 25 February: 10:00 Meeting (red block)
- Wednesday, 26 February: 10:00 Phone C... (green block)
- Thursday, 27 February: 10:00 Visit Sup... (cyan block)

The right-hand sidebar shows the "Events" list for the current day, Tuesday, 4th of March 2014 (CW 9). The events listed are:

- Today, 10:00: Meeting (red block)
- Tomorrow, 10:00: Phone Call (green block)
- Soon, 06 March 2014 10:00: Visit Supplier (cyan block)

A small monthly calendar on the left shows the current month, March 2014, with the 4th and 5th highlighted.