

# File services

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

# Customer demands

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

# Driving factors

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

# Selected cloud file services

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

# Selected self hosting products

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- Nextcloud, Owncloud
- Seafile
- Cozy
- Resilio

# Nextcloud features

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- 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 "Calendar" with a menu bar (File, Edit, View, Go, Message, Events and Tasks, Tools, Help) and a toolbar (Synchronise, Event, Task, Edit, Delete). The main view is a multiweek calendar for the period "23 February – 22 March 2014". The calendar grid shows events for Tuesday, Wednesday, and Thursday. A sidebar on the right displays a list of events for the current day, tomorrow, and soon.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
23 Feb	24	25	26	27	28 Feb	1 Mar
2	3	4 10:00 Meeting	5 10:00 Phone C...	6 10:00 Visit Sup...	7	8
9	10	11	12	13	14	15

Events sidebar:

- Today  
10:00 Meeting
- Tomorrow  
10:00 Phone Call
- Soon  
06 March 2014 10:00 Visit Supplier