

# Un**PLUG**ging From Freemium File Hosting With ownCloud

Searching for Privacy & Security in the Era of Big Data

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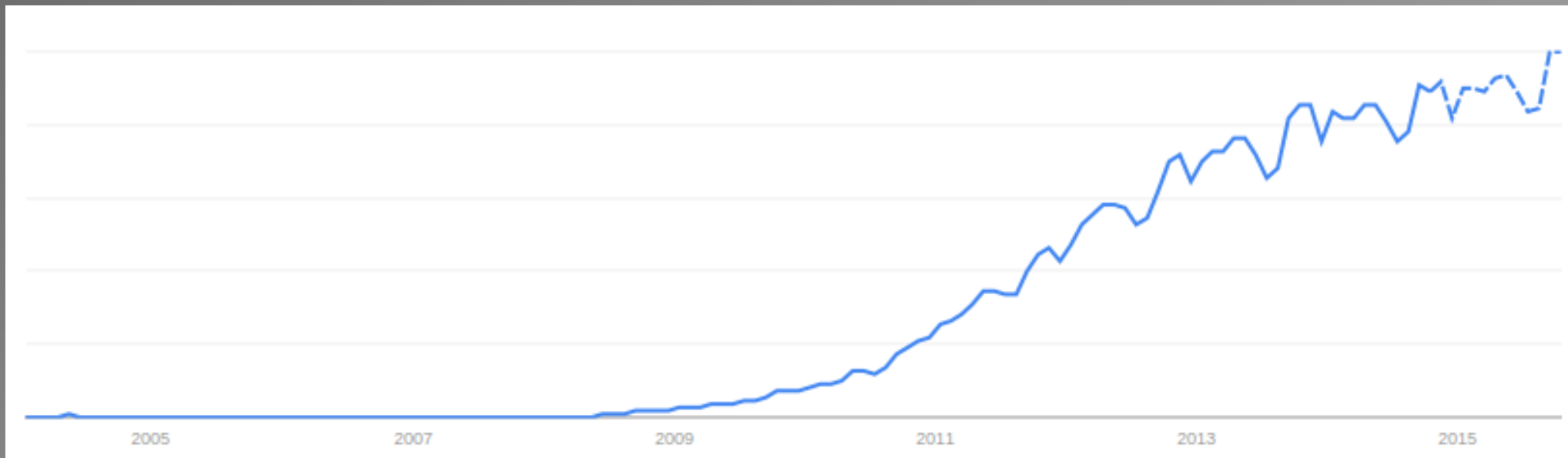


It's been a long time coming...

Camp KDE 2010 Keynote Speech  
[KDE and the Cloud](#)  
Frank Karlitschek

# ...but I know a change is gonna come

- Drive has 240 million users!
- The cloud trend is real
- The cloud trend will continue



Google Trends: "dropbox"

# If this isn't for you, I'm sorry...

- Even if **you** don't use Dropbox, Google, Box, or another such service...
  - Family
  - Friends
  - Co-workers
- “This affects all of us, man. Our basic freedoms!”
- ... there is a command-line client
  - [owncloudcmd](#)

# We've all lost something along the way

## Why should I use ownCloud?

- Control
- Privacy
- Security

# What is it? What Technologies?



- ownCloud is a file hosting solution.
- ownCloud is AGPLv3
- PHP & JavaScript
- SabreDAV: CalDAV/CardDAV
- OpenID/LDAP
- PDF.js
- ODF
- Mozilla Sync
- csync

# What services does it provide?

- Storage, syncing, and sharing
- Users, groups, quotas
- [Versioning/undelete](#) :)
- Calendar
- Contacts
- Bookmark sync
- [Collaborative ODF Editor](#)
- Photo gallery
- Web interface
- Desktop client (cross-platform)
- Android & iOS
- [External storage](#)
  - Dropbox
  - Google
  - FTP
- GNOME & KDE integration

# Recent features

- **Server-to-server shares**
- Responsive WebUI
- User/group sharing of external storage
- Encrypted collaboration across servers
- Configurable e-mail notifications



# What doesn't it do?

- Make PHP safer (ha!)
- Client-side encryption
  - Mega/SpiderOak
  - Server must be “trusted”
- Disk/file system encryption is up to the admin
- No spreadsheets (yet!)
- email (duh!)
  - An “app” is available to hook up to a mail server
- File de-duplication
- Replace Plex/MB3 (3<sup>rd</sup> party “apps”)



# How to set it up?

- ownCloud uses the [OBS](#)
- Packages are available for Debian, Ubuntu, CentOS, Fedora, RHEL, OpenSUSE, and SLE
- Apache, [Nginx](#), [lighttpd](#), [Hiawatha](#), [Yaws](#)
- [MySQL/MariaDB](#), [SQLite](#), [PostgreSQL](#), [Oracle](#)
- [FreeBSD/FreeNAS](#) with jails and ZFS too!
- You can always set it up from [scratch](#)

# Hardening ownCloud

- OS security updates
- Issue new certificate
- Configure apache
  - SSL redirection, set Strict-Transport-Security, etc
- Configure ssl.conf
  - Forward secrecy, modern ciphers
- Fail2Ban
- Some help...

# My Setup



debian

**PROXMOX**

# Thank you!

XMPP: [j.biddy@insley.asuscomm.com](mailto:j.biddy@insley.asuscomm.com)

Email: [jesse@oohsilver.com](mailto:jesse@oohsilver.com)

Website: [www.fermenttemptations.com](http://www.fermenttemptations.com)

# Links from Q&A/Discussion

- [ownCloud Demo](#)
- [Increasing file size limit](#) and [big files](#)
- [Raspberry Pi + ownCloud on Raspbian Wheezy](#)
- [GNU+Linux on Acer C720 Chromebook](#)
  - Arch [C720 Chromebook Docs](#)
  - [Bodhi Linux on Acer C720](#)
- [Ignoring files](#) with the [sync client \(section 3.3.5\)](#)
- ownCloud [music app](#)
- Apparently copying files into the data folder manually is [now a no-no](#) (sorry to whomever I said this would work)
- Synchronizing [calendar](#) and [contacts](#) with [iOS](#), [Android](#), [KDE](#),
- Free [ownCloud Android client](#) available via [F-Droid](#)