

2017 Development & 2018 plan

Seaflie Overview

Collaboration

✓ Collaborative Editing

✓ File Locking

Full Platform

✓ Windows, Mac, Linux

✓ Web, Android, iOS

Integration

✓ LDAP, Shibboleth, OAuth

✓ Restful API

Seafile Cloud Storage

Reliable

✓ Reliable file syncing

✓ Data integrity check

✓ Used by millions

Usability

✓ Drive Client

✓ Windows Experience

High Performance

✓ Sync 10k small files per minute

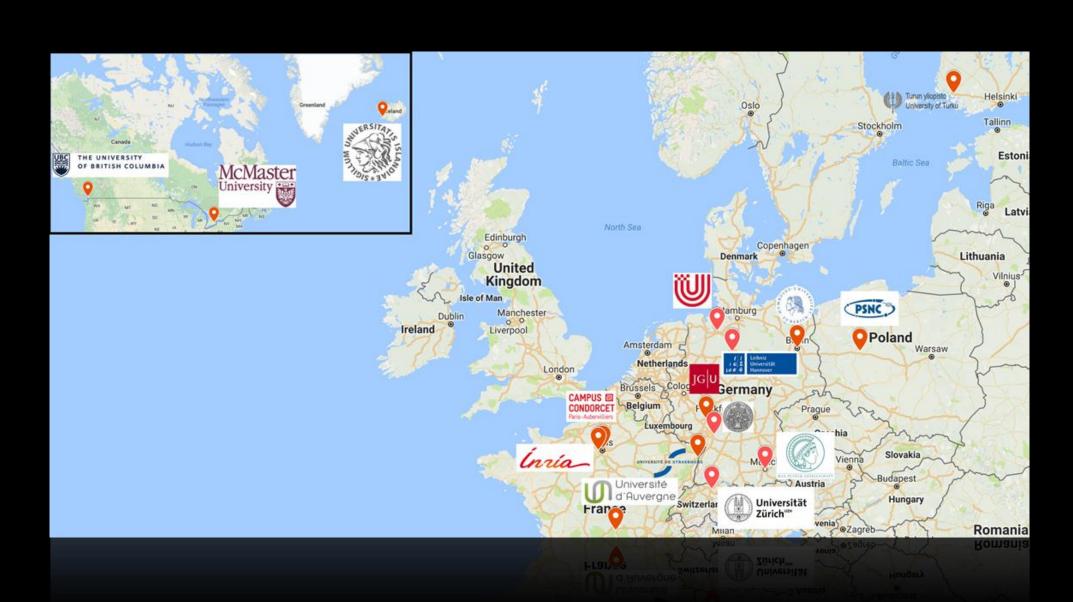
✓ Low server loads

Seafile Educational Users

Europe

Canada

China



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Major Releases

version 6.1 and 6.2

11

Releases for **Community Edition**

18

Releases for **Professional Edition**

2017 Development Summary

Releases for **Syncing Client**

Releases for **Drive Client**

Releases for Android client

Releases for iOS client

New Features - Online Office

Support 3 online office solutions:

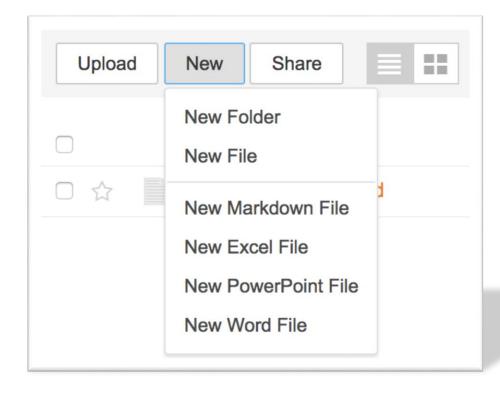
Collabora Online, OnlyOffice and Office Online Server







New Features - Online Office



Co-authoring are also supported

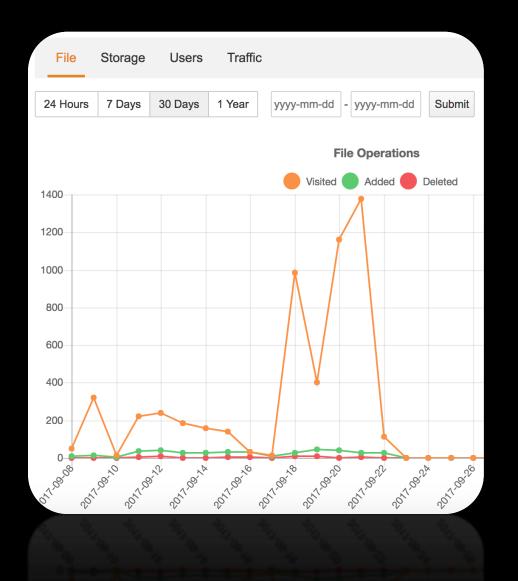
Excel, PowerPoint and Doc files can be created online directly

Office online server has been used extensively in several big installations

New Features - Statistics

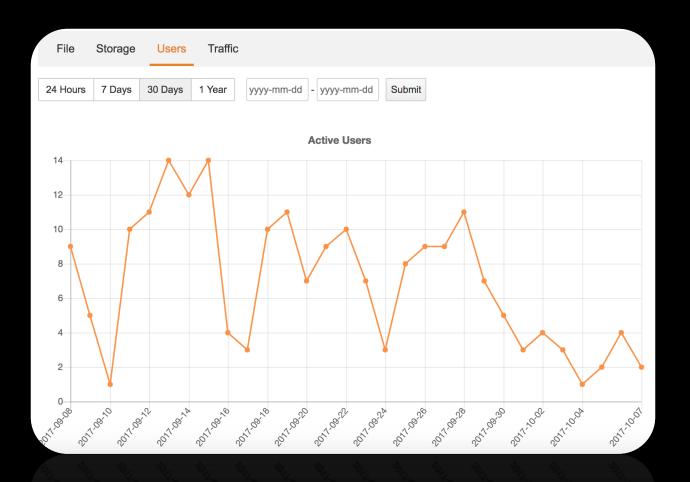
A statistic module is added for admins

File operations by days



New Features - Statistics

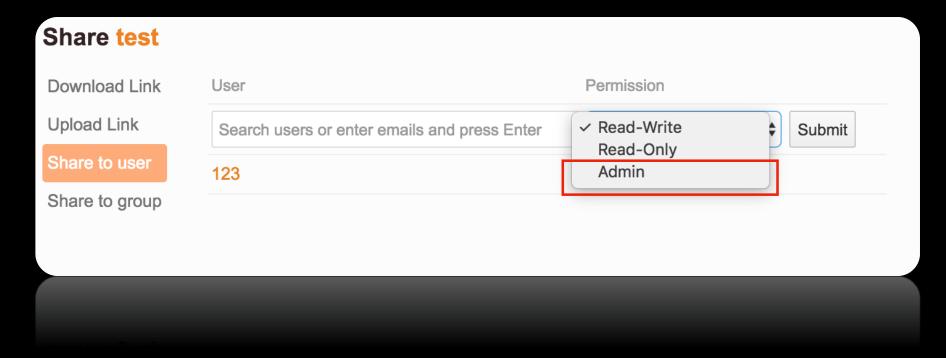
Active Users by days



Improvements for admins

- Support setting user's roles via Shibboleth attribute
- Support setting different quota for different roles
- More APIs for admins
- Admins can create groups and manage groups in admin panel
- Admins can add libraries in admin panel
- Make more config items available via admin panel
- An admin operation log to audit the actions done by an admin

Improvement on file permission control



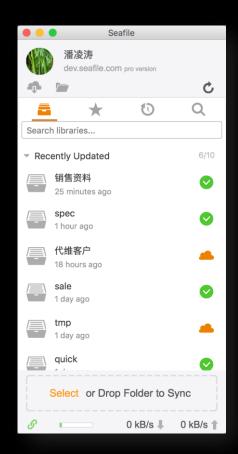
Add "admin" permission when share a library to a group or a user

Improvement on file permission control

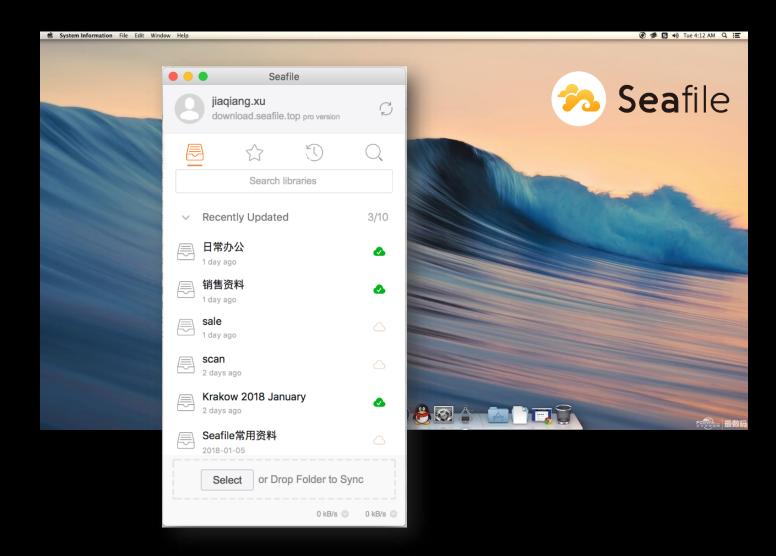
Share test	
Download Link	Add password protection
Upload Link	Add auto expiration
	Online preview only
Share to user	O a manufacture of the first of
Share to group	Generate

Add "preview only" feature when share a file via sharing link

Improvement on syncing client







Improvement on syncing client

- √ 5 improvements/fixes in file syncing
- You can now see which client made a modification in the library history page.

 This will help to find which client accidentally modified a file or deleted a file.
- √ 15 improvements/fixes in cloud file browser
- ✓ Updating files in cloud file browser is now more reliable
- ✓ Improvements on network connection change handling

Improvement on drive client

- ✓ Improvements to Drive client for Windows
- ✓ Fix a few (tricky) bugs for FS operations
- ✓ Some bugs are from Dokany driver/library
- ✓ Drive client for Linux is available
- ✓ Drive client for Mac is available

Drive Client now supports all OS platforms

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Looking forward

- Metadata Management
- Drive Client Improvement
- Multiple Storage Backends
- Web UI Redesign
- Event Infrastructure

Metadata Management



Keep metadata while files moved/renamed

File path -> UUID Map table

UUID -> File metadata



Customizable Notifications



Improved UI for adding comments/labels

Q

Search based on file comments and labels

Improved file comments, file labels and other metadata management

Drive client improvements

- ✓ Support encrypted libraries
- ✓ Organize libraries into categories: My Libraries, Shared Libraries, and Group Libraries
- ✓ Better integration with Finder and Spotlight search on Mac
- ✓ Bundle OSXFuse kernel driver into SeaDrive package for Mac

Multiple Storage Backends

- 1. Attach multiple storage backends to one Seafile server
- 2. Backends can be different: NFS, Ceph, S3, Swift
- 3. Map libraries to backends, based on flexible policies
 - Allow users to choose library's backend
 - Map libraries to backends based on user's role
 - Map libraries to backends based on file types: hot storage, archive storage, etc.
 - Use more than one backends to scale storage capacity

UI Redesign



Event Infrastructure

- Redis can be a placement to Memcached and also become the event bus
- Redis support queues, so Seafile can publish events to Redis and other system can subscribe to events and do something when receive certain events

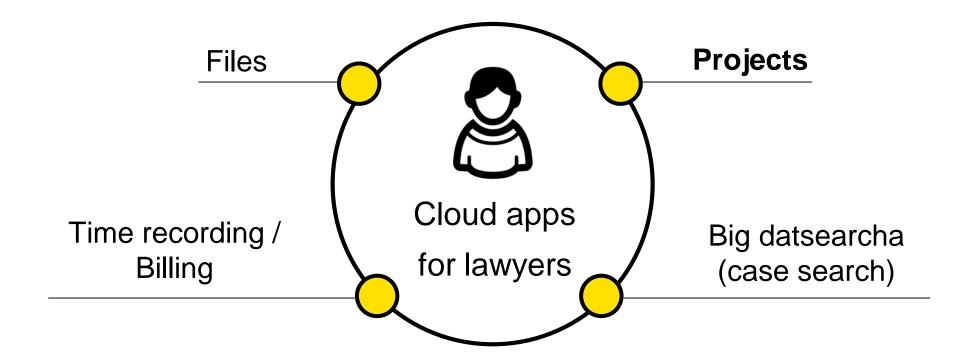
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A cloud for law firms

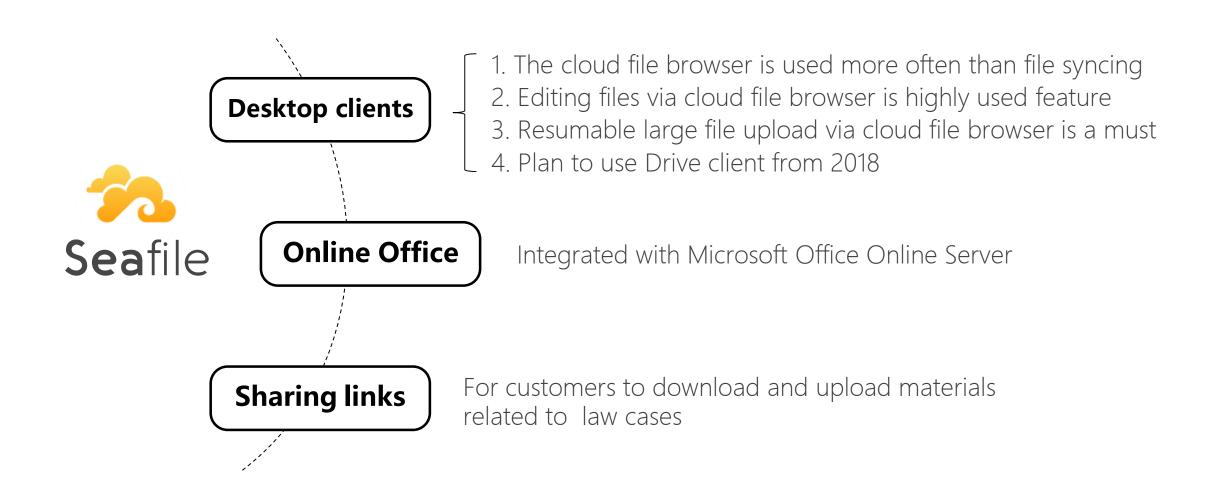


Cooperation project with a SaaS provider in China

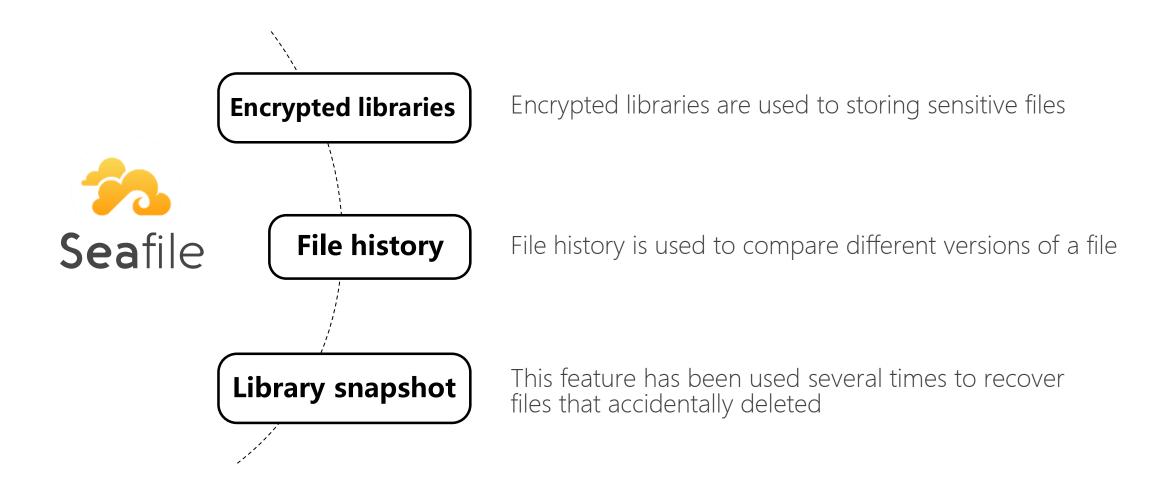
Files module

- Use Seafile API to build customized web UI
- Use a customized desktop clients
- Use Seafile API to integrate File features to mobile client
- Each project will have a corresponding library, a user typically have access to 300 libraries.

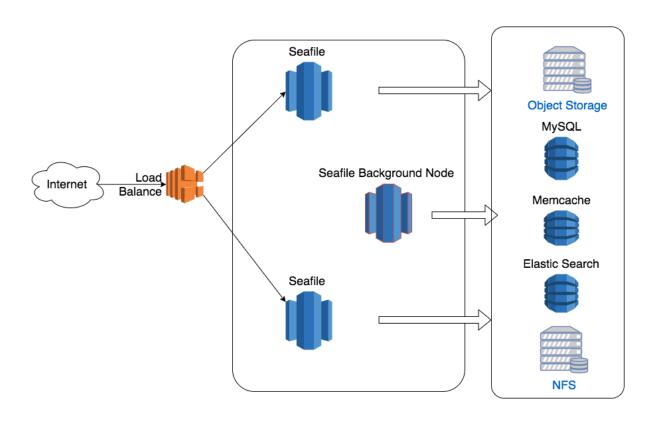
Features used



Features used



Architecture



- 7 front-end server
- backend node only do file indexing, office online server is used for online file view.
- 3 Elastic Search nodes are maintained by us.
- MySQL, Memcache, Object Storage and NFS is provided by the cloud platform.

Statistics

- > 30,000 users and growing rapidly
 - 100,000 users till the end of 2018 (there are about 300,000 lawyers in China).
- ➤ 45TB storage
- 25 million files, 300K files uploaded per day
- > 8000+ syncing clients connected daily
- > 7 front-ends server with 16GB memory, 4 CPU
- ➤ 3 nodes for ElasticSearch server, 100GB data

Statistics

- Moderate load on front end server
- Seahub uses WSGI mode with 3 processors and each have 5 threads with backlog 64.
- Seafile uses 10 threads.
- If there is a burst of requests, requests will be dropped.
 This prevents system from meltdown during high loads.



Feedback from users

- Users will use the system after 2 hours training
- Some users can understand and use Seafile well.
- > But about half users have difficulty understanding and using file syncing.
- They use cloud file browser instead. But there are some bugs in cloud file browser as it was not a "mainstream" feature before.



Future plan

- Introduce users to use SeaDrive clients.
- Introduce file comments, file labels and see how they use these features.
- Make Seafile easier to be used by non-tech users. If Seafile can be used well by 100,000 lawyers, it can be used well for any other users.





www.seafile.com