Seafile

The Open Source DropBox-like

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Links

http://seafile.com

https://twitter.com/seafile @seafile

#seafile on freenode

https://groups.google.com/forum/?fromgroups#!forum/seafile

https://seacloud.cc/group/3/wiki/

http://manual.seafile.com

Session

Little introduction

Using Seafile

Deploying Seafile under Linux (Bill Gates will show you deploying Seafile on Windows in the next session ;-))

Configuration and customization

Administration

Community vs Professional Edition

WebDav and FUSE

API's

Introduction

Open source cloud storage system with advanced support for file syncing, privacy protection and teamwork.

Collections of files are called libraries, and each library can be synced separately. A library can be encrypted with a user chosen password. This password is not stored on the server, so even the server admin cannot view a file's contents.

Allows users to create groups with file syncing, wiki, and discussion to enable easy collaboration around documents within a team.

GPLv3 and Apache License

Using Seafile

Web interface

Admin and user interface

Users

Libraries

Groups

Sharing (libraries, links)

Social (wiki, messages, notifications...)

User profile management

File history

Desktop, mobile and command

http://seafile.com/en/download/

Conflict resolution

Changing user password doesn't need to resync

File/Folder naming best practices

- :, ?, $ and files/folders ending at dot or space will not synchronized
- Don't use ;, ", ', ,, accents and/or large file/folder names

Seafile components overview

http://manual.seafile.com/overview/components.html

Production experience

How i met seafile because Owncloud... and python
because Seafile :-D

I still use 2.X version

ADVERTISING

Python everywhere

Mostly python but... 2.6.5+, 2.7 :-(

Seahub (web interface) = django

Little C parts (syncing performance)

Deploying Seafile under Linux

Download 32 or 64 bits (http://seafile.com/en/download/)

http://manual.seafile.com/deploy/using_mysql.html

Directory layout

Prepare mysql databases

Setting up seafile server

Supporting large number of clients

     ulimit -n 30000

     Making change persistent (/etc/security/limits.conf/)

     root   soft   nofile 30000

     root   hard   nofile 30000

Deploying Seafile under Linux

Start Seafile server and Seahub website

    seafile.sh start|restart|stop

    seahub.sh start|restart|stop

Configure Seahub with Nginx

    http://manual.seafile.com/deploy/deploy_with_nginx.html

Enabling Https with Nginx

    http://manual.seafile.com/deploy/https_with_nginx.html

Configure Seafile to use LDAP

    http://manual.seafile.com/deploy/using_ldap.html

Deploying Seafile under Linux

Start Seafile at system bootup

http://manual.seafile.com/deploy/start_Seafile_at_system_bootup.html

Firewall settings

http://manual.seafile.com/deploy/using_firewall.html

Upgrade Seafile server

http://manual.seafile.com/deploy/upgrade.html

Note changes at libraries data format

- Upgrading from 3.1-
  - Recreate and resync libraries to get client improvements
    - Fast sync
    - Minor disk space usage
  - No more deduplication between libraries

Server configuration and customization

ccnet/ccnet.conf

    Network settings

seafile-data/seafile.conf

    Seafile daemon and Fileserver settings

seahub_settings.py

    Seahub settings

Server configuration and customization

http://manual.seafile.com/config/ccnet-conf.html

Allowing concurrent clients at same machine

Use different client port in ccnet.conf at client side
for all Os's except to Linux client starting from
version 3.1.2

Server configuration and customization

http://manual.seafile.com/config/seafile-conf.html

Server configuration and customization

http://manual.seafile.com/config/seahub_settings_py.html

Server configuration and customization

Seahub costumization

http://manual.seafile.com/config/seahub_customization.html

Logo, css, download page...

Costumization + API's = easy integration

Administration

Backup and recovery

http://manual.seafile.com/maintain/backup_recovery.html

I trust on my own script to get the work done (backup.sh) which stops the seafile service (see mysql db's)

System crashes

http://manual.seafile.com/maintain/seafile_fsck.html

Garbage collector

http://manual.seafile.com/maintain/seafile_gc.html

Free unreferenced and old (history) blocks

Run this process frequently

Community vs Professional edition

http://www.seafile.com/en/product/private_server/

WebDav and FUSE

WebDav

http://manual.seafile.com/extension/webdav.html

conf/seafdav.conf

dav://seafileserver:8080

FUSE

http://manual.seafile.com/extension/fuse.html

Exposes Seafile blocks as files on server

Read only

API's

Python API

http://manual.seafile.com/develop/python_api.html

WebAPI

http://manual.seafile.com/develop/web_api.html

REST API

¡Aplausos!

¡¡¡Más fuerte!!!

Gracias.
:-D