ownCloud

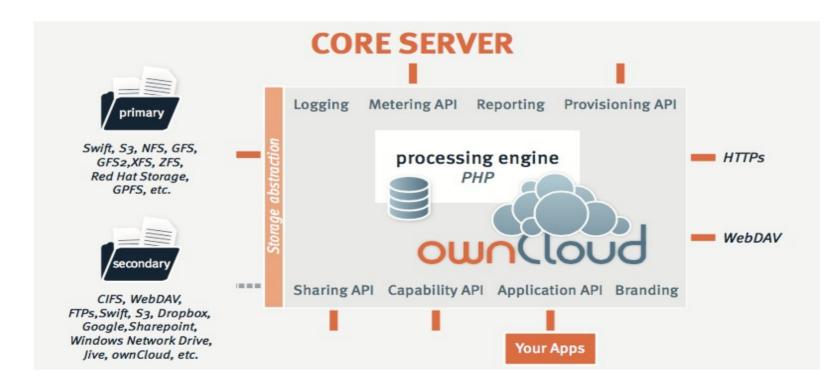
Private Cloud Services

St. Louis Linux User's Group 18 August 2022

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What is ownCloud?

ownCloud is open source file synchronization and sharing, offering both community & enterprise versions



License & Components

- Open source AGPL-license (https://github.com/owncloud)
- ownCloud Server Core
- Clients
 - Desktop davfs2 client
 - Android App
 - IOS App
- Development Libraries
 - Custom builds

Server Installation

- Standard Linux (like) operating systems
- Package, source, virtual images or a one file php installer and .tar archive

zypper se owncloud:

S	Name	Summary	Туре
i i i i	libcsync-plugin-owncloud owncloud owncloud-config-apache owncloud-server rubygem-owncloud-admin rubygem-owncloud-admin-doc	Owncloud plugin for csync The ownCloud Server - Private file sync and share server The ownCloud Server - Private file sync and share server Apache setup for ownCloud Common code server for ownCloud ownCloud administration RDoc documentation for owncloud-admin	package package srcpackage package package package package

Initial Configuration

- Administrator name & password
- Directory to place the data (why?)
- Backend database system type
- Database user name, password,
- database name, database server host

Server Backup

- Important to have a file level backup ask me why!
- OwnCloud will maintain deleted files in the UI, but sometimes it is good to have a backup of the individual files if nothing else, to make it easy to find what was deleted.
- Use simple rsnapshot job (see example)
- Your choice of versions

Administration

🔅 🔿 Admin 🔻

Sharing

Server-side encryption

File handling

Mail Templates

Cron

Email server

Log

Server Status

Sharing *i*

- ✓ Allow apps to use the Share API
- 🖌 Allow users to share via link
 - ✓ Enforce password protection
 - Allow public uploads
 - Allow users to send mail notification for shared files
 - ✓ Set default expiration date

Expire after 7

days
Enforce expiration date

✓ Allow resharing

ownCloud Apps

- The ownCloud architecture is extensible with Apps for specific functions
 - External Storage add external storage such as AWS S3, Dropbox, OpenStack Swift, etc.
 - External Sites
 - External Users, LDAP
 - Many Apps for user benefit e.g. Calendar

User Management

- UIDs, Names, Password, Group, Quota
- Different user for different target e.g. desktop vs. mobile

+ Add Group		Username	e	Password	Groups	•	Create				Search User	rs
Everyone	7	U	sername	Full Name	Password		Groups		Group Admin 1	for	Quota	
Admins	2	L Iv	1	L V Lammert			Usn's, admin	•	no group	•	Unlimited	•
		L Iv	'l-m	lvI-m	••••••		Usn's	•	no group	▼	Default	•
Usn's	3	N na	avvf	NAVVF Members			NAVVF	•	NAVVF	•	Default	•
Clients	1	P pr	mc	pmc	••••••		Clients	v	no group	•	Default	-
NAVVF	1	A ro	oot	Admin User			admin	v	no group	▼	Default	·
		S sr	ma	Schnoogie	•••••		Usn's	•	no group	•	Default	•
		S st	hakkar	sthakkar			no group	•	no group	•	Default	J

User Control

- User Roles:
 - Normal user
 - Group admin
 - System admin.
- User Data Modify username, password, and storage quota.
- Group Control Create/remove group, add/remove user

Accessing ownCloud

- Desktop
 - Web UI
 - Direct mount via davfs2
 - Client installation
- Mobile
 - Client installation
 - Links (e.g. InstantUpload)
- APIs pyocclient, et al

Web UI

Activities 🛃 Firefox 🔻	Wed 14	Oct, 14:24		€3 - ●)) (¹) -
		d – Mozilla Firefox		×
Files - ownCloud × Configuring Mem × 🖸 ope				
S (Attps://oc.omnitec.net/index.php/apps/files?d	lir=%2F	v ơ ♥ v Q Search		+ 🕆 🌇 🖬 🚱 🐡 🙏 🖂 🚍
Files 🔻		٩		L V Lammert 🔻
🖿 All files	New			
★ Favorites	□ Name ▲		Size	Modified
 Shared with you 	ALT		367 kB	a month ago
Shared with others	BOD	NAVVF Members	1.1 GB	14 days ago
🔗 Shared by link				
	bu		92.8 MB	8 days ago
	DTS	< pmc	98.4 MB	a day ago
Deleted files	IFR		5.4 GB	8 days ago
Settings	IMS		284.2 MB	3 months ago

Mount an OC drive

- sudo aptitude install davfs2
- sudo echo "/home/felix/ownCloud admin admin123" >> /etc/davfs2/secrets
- sudo echo "http://<server>:8090/owncloud/remote.php/webdav /home/felix/Owncloud davfs uid=felix,gid=felix 0 0" >> /etc/fstab
- sudo mount /home/felix/Owncloud/
- df -h | grep owncloud
- http://localhost:8090/owncloud/remote.php/webdav 5.0G 4.9M
 5.0G 1% /home/felix/Owncloud

Desktop Client

• Simple package installation

S	Name	Summary	Туре
i i i	<pre>libowncloudsync0 libowncloudsync0-debuginfo owncloud-client owncloud-client-debuginfo owncloud-client-debugsource owncloud-client-doc owncloud-client-l10n owncloud-client-nautilus</pre>	<pre>The ownCloud sync library Debug information for package libowncloudsync0 The ownCloud client Debug information for package owncloud-client Debug sources for package owncloud-client Documentation for ownCloud Localisation for ownCloud Nautilus overlay icons</pre>	<pre>+ package package package srcpackage package package package package package package package</pre>

Desktop Client UI

ownCloud	
👗 4 🌣 🐤	
lvl Activity General Network	
Connected to <u>https://oc.omnitec.net</u> as <i>lvl</i> .	Delete
19 GB (0.7%) of 3 TB server space in use.	
Some folders, including network mounted or shared folders, might have different limits.	
Image: marked synchronize ownCloud Syncing selected files in your account with ownCloud Add Folder to Synchronize	
	<u>C</u> lose

Android App

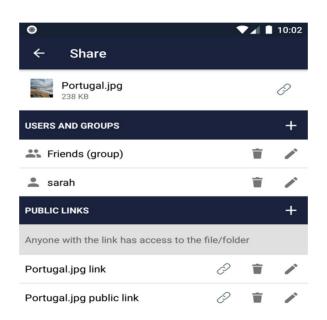
- ownCloud GmbH
 - Look for ownCloud logo
 - Don't waste time on others
- Similar UI





Similar UI





0	1		10:02
← Share			
Portugal.jpg 238 KB			Q
USERS AND GROUPS			+
Friends (group)		Ť	
💄 sarah		Ŵ	
PUBLIC LINKS			+
Anyone with the link has access to the f	île/fold	er	
Portugal.jpg link	Õ	Ŵ	
Portugal.jpg public link	0	Ŵ	





Sharing Data

- Create and share a link to a directory
 - Password
 - Expiration Data
 - Read Only <?>
- Create a user and/or group
 - Share a folder
 - Read/Write access
 - Username & Password

Data profiles

- Create a user for each type of device, most notably:
 - Desktop
 - Mobile
- Share folders ONLY between those logins, simplest way to prevent excessive space and bandwidth usage on mobile devices

Docker version

• Demo

The end!

Thank you!!!

Lee Lammert

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