



Nextcloud

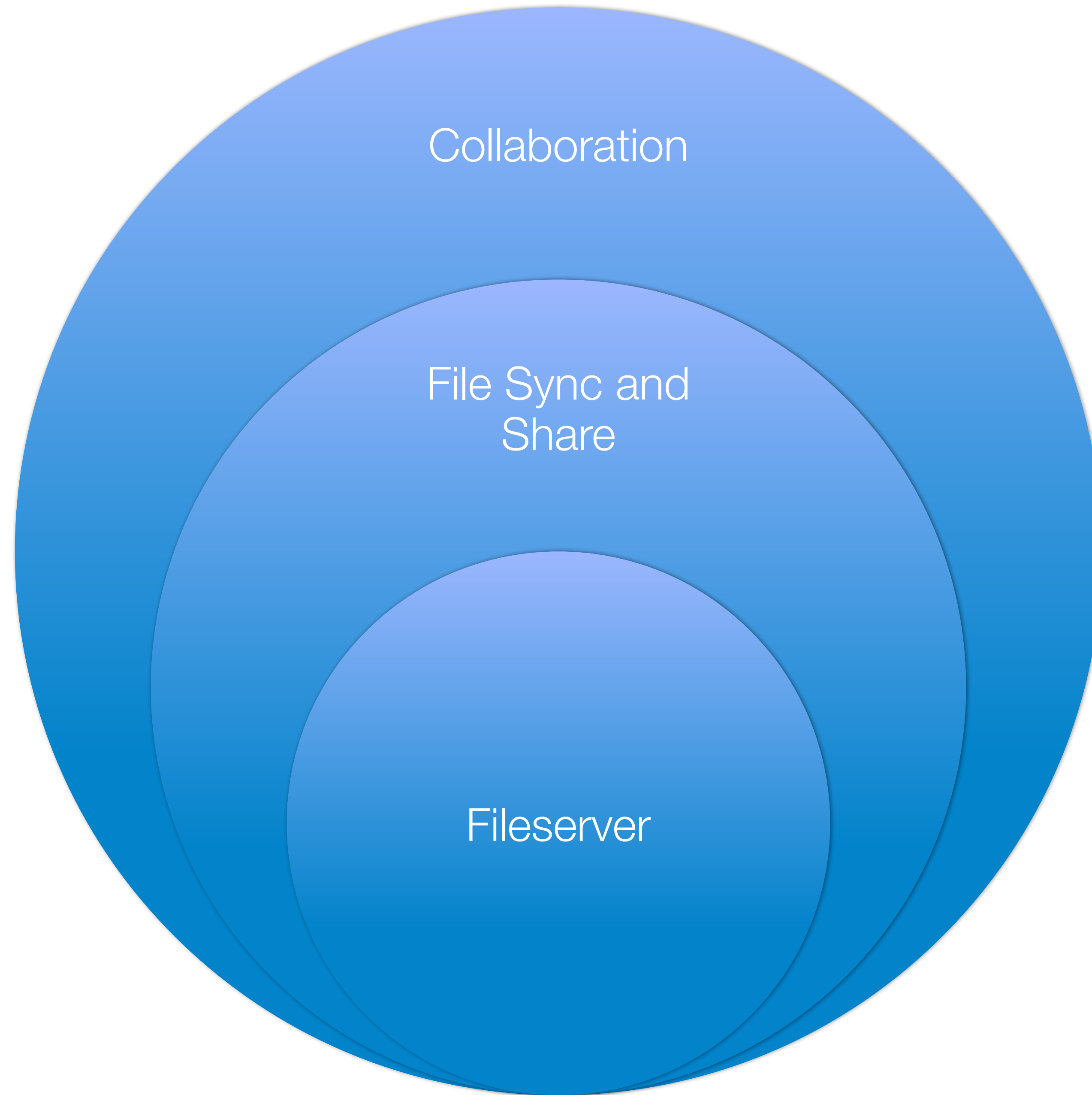
Frank Karlitschek

# Agenda

- Nextcloud in 2020
- Architecture update
- Questions

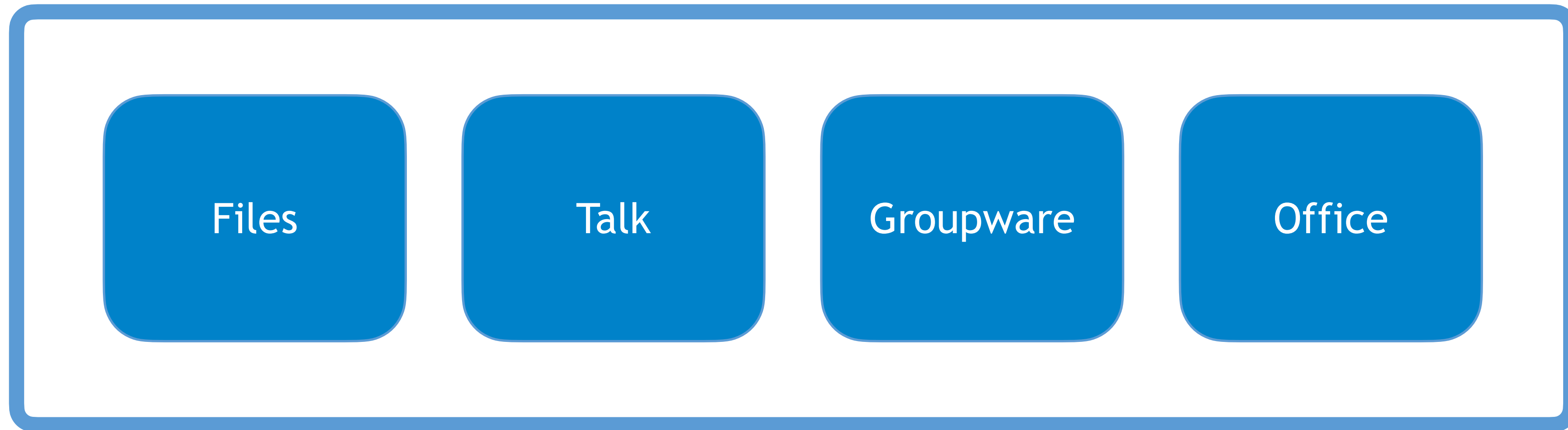


# Positioning





## Nextcloud Hub



Alternative to Microsoft and Google



Nextcloud Hub 18

- All files
- Recent
- Favorites
- Shares
  - Shared with others
  - Shared with you
  - Shared by link
  - Deleted shares
  - Pending shares
- Tags
- Deleted files
- 18.2 MB used
- Settings

Home icon, breadcrumb, and a large plus sign button for adding content.

Add notes, lists or links ...



<input type="checkbox"/>	Name		Size	Modified
<input type="checkbox"/>	Documents		2.4 MB	a month ago
<input type="checkbox"/>	Photos		5.4 MB	a month ago
<input type="checkbox"/>	Nextcloud.png		49 KB	a month ago
<input type="checkbox"/>	Nextcloud intro.mp4		3.8 MB	a month ago
<input type="checkbox"/>	Nextcloud Manual.pdf		6.5 MB	a month ago

2 folders and 3 files 18.2 MB



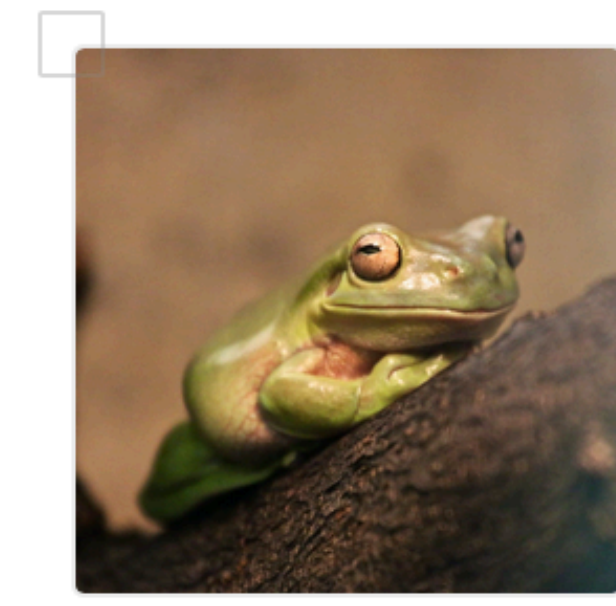
- All files
- Recent
- Favorites
- Shares
  - Shared with others
  - Shared with you
  - Shared by link
  - Deleted shares
  - Pending shares
- Tags
- Deleted files
- 18.2 MB used
- Settings

Photos +

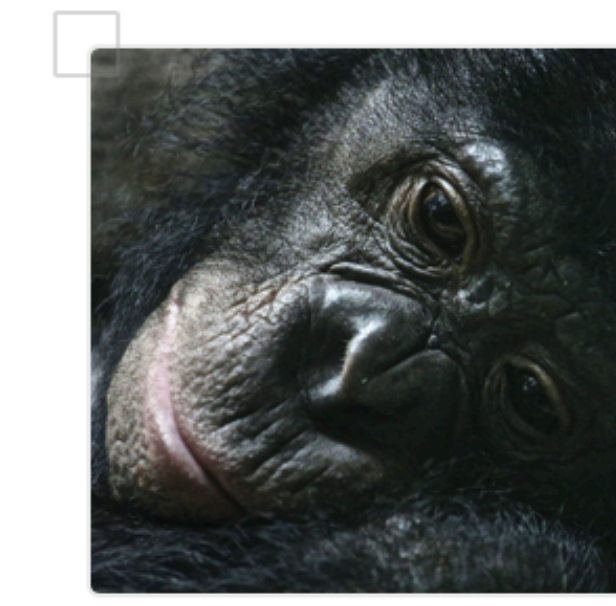
<input type="checkbox"/>	Name	Size	Modified
--------------------------	------	------	----------



Birdie



Frog



Gorilla



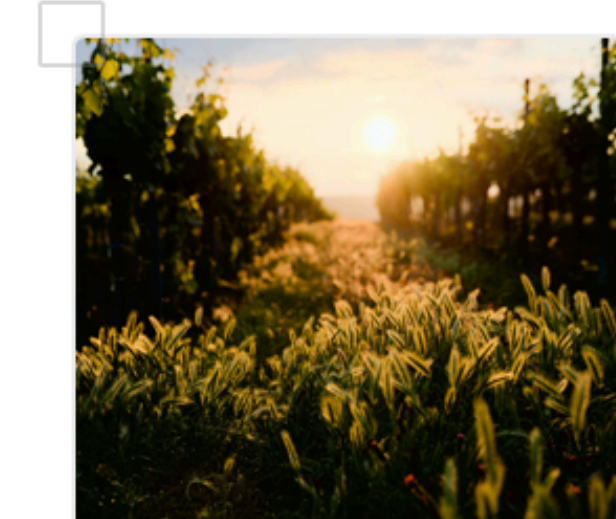
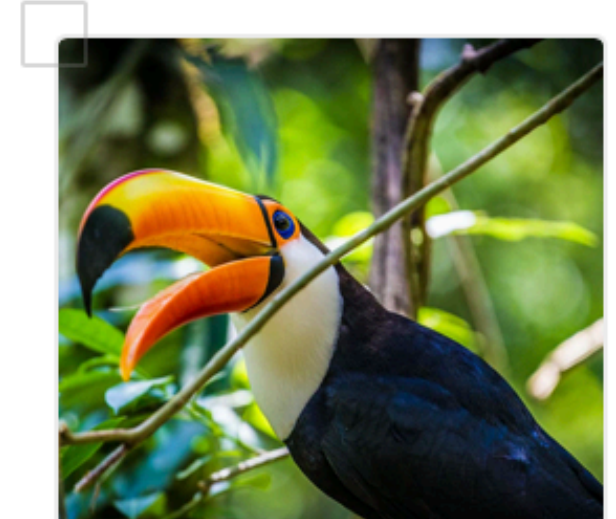
Library



Nextcloud co...



Steps



**Vineyard.jpg**  
417 KB, a month ago

Collaborative tags

- Activity
- Chat
- Comments**
- Sharing
- Versions

frank

New comment ... →

frank ... a minute ago

**jos** Checkout this awesome photo





7 minutes ago ✕



You received **design work** as a share by



**Leon Green**

Reject

Accept

testing

Recent

38 minutes ago ✕



**Leon Green** mentioned you in

conversation **analysis.ipa**

Modified



< 1 KB

6 days ago

## Files

Transfer ownership of a file or folder

**Choose file or folder to transfer**

New owner

Search users

**Transfer**

---

## Sharing

Accept user and group shares by default

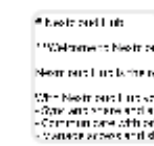








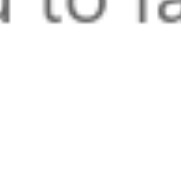

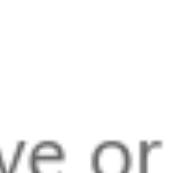

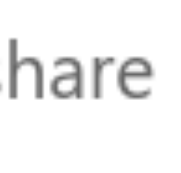

- All files
- Recent
- Favorites
- Shares
  - Shared with others
  - Shared with you
  - Shared by link
  - Deleted shares
  - Pending shares
- Tags
- Deleted files
- 18.2 MB used
- Settings








# Project X

Please all project files in here. Everyone in the Sales Talk room will get a notification and all files will be converted to PDF automatically.

- Project Kickoff
- Milestone 1
- Milestone 2

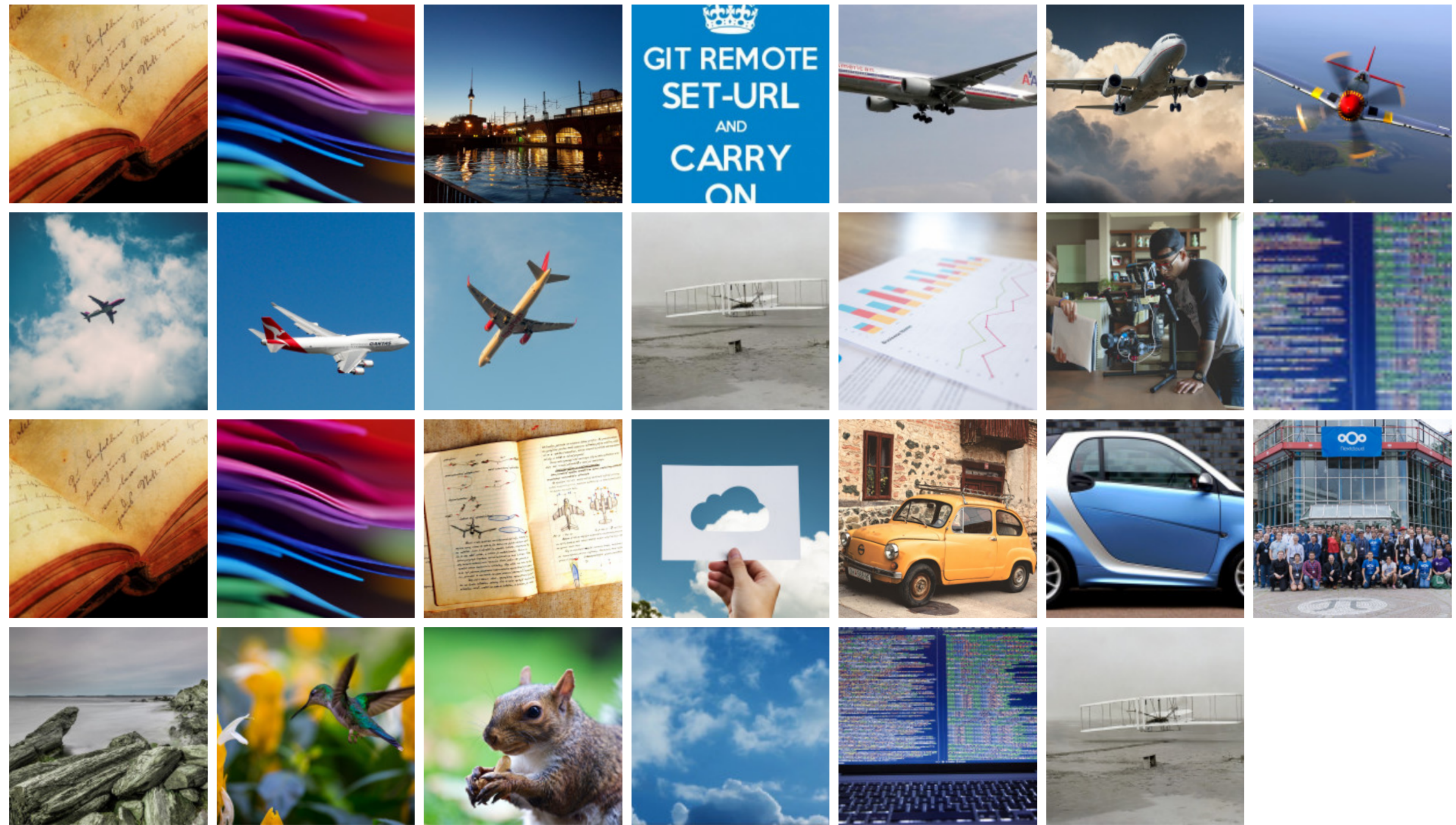
<input type="checkbox"/>	Name	Size	Modified
<input type="checkbox"/>	 Example.md	1 KB	a month ago
<input type="checkbox"/>	 Example.odt	29 KB	a month ago
<input type="checkbox"/>	 Nextcloud flyer.pdf	2.4 MB	a month ago
<input type="checkbox"/>	 Readme.md	< 1 KB	a month ago
4 files		2.4 MB	

	...	452 KB	a year ago
	...	1 KB	2 months ago
	...	4.4 MB	a year ago
	...	36 KB	a year ago
	...	452 KB	a year ago
	...	482 KB	a year ago
	...	< 1 KB	2 months ago
	...	1.4 MB	25 minutes ago
	...	3 MB	a year ago

-  Lock file
-  Add to favorites
-  Details
-  Rename
-  Move or copy
-  Download
-  Unshare














- Your photos
- ★ Favorites
- Your albums
- Shared albums
- Tagged photos
- Locations





Search conversations or contacts +


- 
**Carl Green** ...  
 Yes. Carl Green This is perfect. Th...
- 
**Mickey Johnson** ...  
 Mickey Johnson started a call
- 
**Danceschool StepStep** ...  
 You added Mickey Johnson
- 
**Chat room for event** ...  
 You created the conversation
- 
**market analysis.xlsx** ...  
 You started a call
- 
**Paulette Cormier** ...  
 Call with Christine Schott and Paul...
- 
**Business Process Analysis.docx** ...  
 jos added you
- 
**Discuss project Butterscotch** ...  
 The command does not exist
- 
**linedancemag.com-Texas Connectio...**  
 Hey, can you edit the document till...





**good morning hair .jpg**


12:55 PM

Start call




Christine Schott  
 Hey  Carl Green , nice hair by the way!

12:55 PM




**my hair today .jpg**


12:55 PM



Carl Green  
 :D


12:55 PM



Christine Schott  


2:21 PM

Carl Green  
 is that okay?


Yes.  Carl Green This is perfect. Thanks

3:03 PM

 Write message, @ to mention someone ... 

★ **Carl Green** ✕

Participants **Projects**

 Add to a project  
 Connect items to a project to make them easier to find

 Bank documents   ...

 design work   ...

 Readme.md   ...

+ New event

Today

- Personal
- Line Dance
- Contact birthdays
- Work
- + New calendar

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
ICE 1002 from Nürnberg Hbf to Berlin Hbf (tief)						
Vacation			5p Line dancing class Corinne	Moving in new office		
	10a Impro class	11a Company call				
5	6	7	8	9	10	11
ICE 1002 from Nürnberg Hbf to Berlin Hbf (tief)			12a ICE 693 from Berlin Hbf (tief)	Doctors appointment		
5:01p ICE 1002 from Nürnberg	10a Impro class	Line Dance dress rehearsal	12a ICE 693 from Berlin Hbf (tief)			
	12:50p Project sync					
12	13	14	15	16	17	18
10a Impro class	Line Dance Training	12:15p Untitled event	Lien Dann main rehearsal	The Big Line Dancing Show		
2p check-in	11a Company call	5p Line Dancing class Corinne	discuss new office			
	1p Discuss project announcen		10a Phonecall with Abby			
			11a Discuss office furniture			
19	20	21	22	23	24	25
10a Impro class	11a Company call	5p Line Dancing class Corinne				
26	27	28	29	30	31	
10a Impro class		3p Company call	5p Line Dancing class Corinne		Line Dance Show!	
2	3	4	5	6	7	8
10a Impro class	11a Company call	5p Line Dancing class Corinne				



Details



**Attendees**



Reminders



Repeat

Search for e-mails, users, contacts, resources or rooms



No attendees yet

**Create Talk room for this event**

Show busy times

**Update**



+ New message

- All inboxes
- christine.schott.nc@gmail.com
- Inbox
- Favorites
- Show all folders

- Google - 8 days ago - Alerte de sécurité
- Google - 8 days ago - Alerte de sécurité
- Jos Poortvliet - 8 days ago - Booking Details | Depar...
- Google - 20 days ago - Aidez-nous à vous protége...
- Jos Poortvliet - 23 days ago - Buchungsbestätigung (...)**
- Jos Poortvliet - 23 days ago - Booking Details | Depar...
- Nina Cercy - a month ago - Friday dinner
- conduct@nextcloud.c... - 2 months ago - Fwd: Bordkarten für Ihr...
- Jan-Christoph Borch... - 2 months ago - Fwd: Your ticket for "Ap...
- IBERIA L A E - 2 months ago - Tarjeta de Embarque Ib...
- IBERIA L A E - 3 months ago - Confirmación de reserva

## Buchungsbestätigung (Auftrag BPM83K)

Jos Poortvliet to christine.schott.nc@gmail.com

Reply

<b>Nürnberg Hbf</b>		<b>Berlin Hbf (tief)</b>	
06/28/2019	ICE 1002	01/16/2020	+
5:01 PM	→	12:00 AM	

The images have been blocked to protect your privacy. [Show images from this sender](#)

Hi Christine,  
Here's also a train ticket example - I went to Stuttgart, and back to Nuremberg.

### Buchungsbestätigung (Auftrag BPM83K)

Sehr geehrter Herr Poortvliet,

vielen Dank für Ihren Fahrkartenkauf.

**Ihre Buchungsdaten:**

Auftragsnummer: BPM83K  
Kundennummer: 17440465

- Falls Sie die App "DB Navigator" auf Ihrem Android Smartphone oder iPhone installiert haben, können Sie Ihr Handy-Ticket über folgenden Link herunterladen:  
[Auftrag laden für iOS DB Navigator](#)  
[Auftrag laden für Android DB Navigator](#)  
 Die App erhalten Sie über [www.bahn.de/apps](http://www.bahn.de/apps) oder suchen Sie in den App-Stores nach "DB Navigator".

**Das sollten Sie wissen:**

- Das Ticket gilt nur für Johannes Poortvliet persönlich (ggf. auch für Mitfahrer) in Verbindung mit einem amtlichen Lichtbildausweis (z.B. Personalausweis oder Reisepass) oder einer gültigen BahnCard.

- Personal info
- Security
- Activity
- Mobile & desktop
- Accessibility
- Sharing
- Flow**
- Privacy

**Automated tagging**  
Automated tagging of files  
[Add new flow](#)

**PDF conversion**  
Convert documents into the PDF format on upload and write.  
[Add new flow](#)

**Write to conversation**  
Writes event information into a conversation of your choice  
[Add new flow](#)

**More flows**  
Browse the app store

### Your flows

When **File created**

and File system tag is tagged with customer-upload

[Add a new filter](#)

→ **Write to conversation**  
Writes event information into a conversation of your choice

project discussion

Mention room

[Delete](#) [✓ Active](#)

When **Tag assigned**

and File system tag is tagged with convert-to-pdf

[Add a new filter](#)

→ **PDF conversion**  
Convert documents into the PDF format on upload and write.

Keep original, preserve existing PDFs



1.0 General Information

ONLYOFFICE Community Edition

1.3 Example text

Provide a brief system overview description as a point of reference for the remainder of the document. In addition, include the following:

- Responsible organization
- System name or title
- System code
- System category
  - *Major application:* performs clearly defined functions for which there is a readily identifiable security consideration and need
  - *General support system:* provides general ADP or network support for a variety of users and applications
- System environment and special conditions

1.4 Project References

Provide a list of the references that were used in preparation of this document. *Examples of references are:*

- **Previously developed documents relating to the project**
- **Documentation concerning related projects**



Default Style | DejaVu Serif | 12 | **B** *I* U ~~S~~ | A | | |

# Headline

This is a Test document

test document.odt  
8 KB, seconds ago

Activity **Chat** Comme... Sharing Versions

**Start call**

You joined the conversation 1:58 PM

Frank Karlitschek  
Can you please help me with this document? 1:58 PM ✓

Especially the first section 1:58 PM ✓

Thanks. Let's discuss this tomorrow 1:58 PM ✓

Write message, @ to mention someone ...



Nextcloud Hub 19

- Personal info
- Security**
- Activity
- Mobile & desktop
- Accessibility
- Sharing
- Flow
- Privacy
- Collabora Online

## Two-Factor Authentication i

Use a second factor besides your password to increase security for your account.

### Backup code

Backup codes have been generated. 0 of 10 codes have been used.

[Regenerate backup codes](#)

If you regenerate backup codes, you automatically invalidate old codes.

### Nextcloud Notification

Use two-factor authentication via Nextcloud notifications

### TOTP (Authenticator app)

Enable TOTP

### U2F device

No U2F devices configured. You are not using U2F as second factor at the moment.

[Add U2F device](#)

## Passwordless Authentication

Set up your account for passwordless authentication following the FIDO2 standard.

No devices configured.

Please authorize your WebAuthn device.


## Devices & sessions














Web, desktop and mobile clients currently logged in to your account.

Device

Last activity

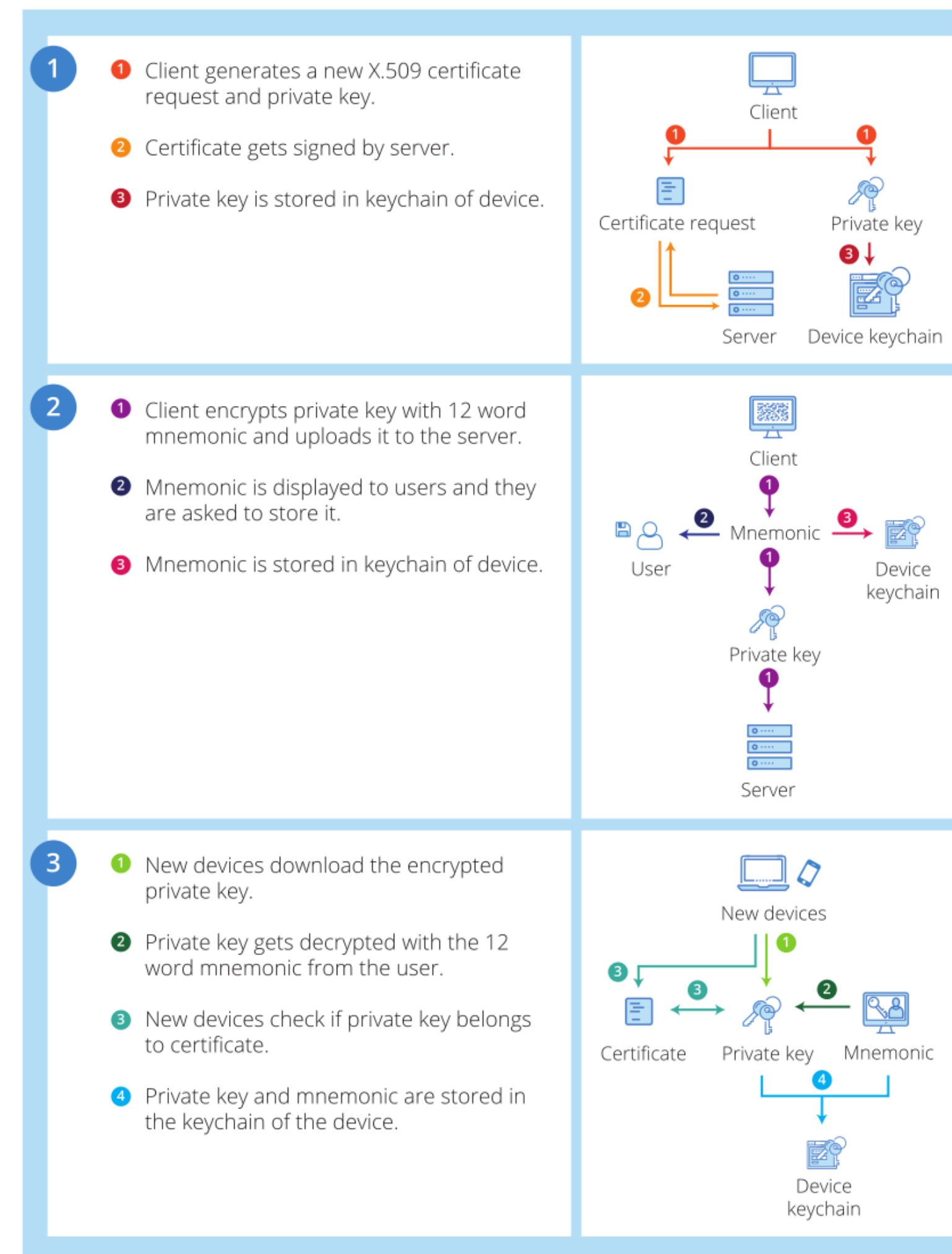



**Michael Schuster**  
 cloud.nextcloud.com

-  You renamed untitled folder 
-  You created untitled folder 
-  You created app password "curl"
-  You successfully logged in using two-factor authentication (...
-  Roeland Douma changed 18 must have...  
 18 must have list.md  
-  Jos Poortvliet changed Marketing/Graphics/Video... 
-  Jos Poortvliet created Marketing/Graphics/Videos... 

## Nextcloud end-to-end encryption

### Create and sync identity







### Weekly hangout 🥰

Chat Participants Projects

Hey crew 🥰 Happy to see you! 4:56 PM

You joined the call 4:57 PM

Christoph Wurst joined the call 4:57 PM

Edeltraut Bobb Hi 👁️ Sandra McKinney 4:58 PM

good to see you again! 4:58 PM

💙 4:58 PM

Edeltraut Bobb Yayyy 4:58 PM

Tobias Kaminsky joined the call 4:58 PM

Tobias Kaminsky Enjoy the ☕ I don't see 👤 Carl Green yet? 4:59 PM

🙄 😄 4:59 PM

Vanessa Steeg Don't yah worry, I'm here - wouldn't miss it for the 🌍 5:01 PM

Roeland Douma Smart :) 5:01 PM

Write message, @ to mention someone ... →



Search conversations or contacts

- Video Dinner Nina  
You created the conversation
- Weekly hangout 🥳**  
You left the call
- Review Nextcloud  
Guest left the call
- market analysis.xlsx  
Call with Christine Schott and jos (...)
- Review Nextcloud in rating p...  
You: 😊
- Talk updates ✓  
- You can now add custom user gr...
- Company chat  
Nina: this is great
- Discuss project announceme...  
You disallowed guests
- Line Dancing class Corinne  
You created the conversation
- Nina Cercy  
I don't think this will work
- Discuss project Butterscotch  
Wikipedia-bot: Wikipedia search re...
- Billy\_Bobs\_Texas\_Country\_Li...  
Carl: thanks :)
- linedancemag.com-Texas Co...  
...

Settings

jos started a call Start call

Sandra McKinney  
Hey crew 🥳 Happy to see you! 4:56 PM

Sandra McKinney joined the call 4:57 PM

Paulette Cormier joined the call 4:57 PM

Paulette Cormier  
Hi Sandra McKinney 4:58 PM

good to see you again! 4:58 PM

👉

Christine Schott  
Hi lol! 4:58 PM

You joined the call

Christine Schott  
Enjoy the 🍷 I don't see Carl Green yet? 4:59 PM

🙄 🤖

Carl Green  
Don't yah worry, I'm here - wouldn't miss it for the 🍷 5:01 PM

Carl Green joined the call 5:01 PM

Molly Allen joined the call 5:15 PM

Carl Green joined the call 5:17 PM

Write message, @ to mention someone ...

Weekly hangout 🥳

Participants Projects

- jos (moderator)
- Christine Schott
- Alice
- Mickey Johnson
- Bob
- Edda
- Leon Green
- Sandra McKinney
- Molly Allen
- Carl Green
- Paulette Cormier

**Drop your files to upload**

motivation and management.pdf  
1,5 MiB

+ New message

- Priority inbox
- All inboxes
- @nextcloud.com
- Inbox
- Favorites
- Drafts
- Sent
- Trash

Important i

- Invoice due on 07/11/2020 for [redacted] 16 hours ago
- Re: [Team IT] Wifi issues 18 hours ago
- Markus Windecker 20 hours ago  
European Privacy Seal
- Markus Windecker 21 hours ago  
UseCase - Whitepaper GOV
- AW: [redacted] a day ago

Load more

Favorites

- Something to take care fo... 9 months ago
- Frank Karlitschek 10 months ago  
when sending out the pre...
- AW: [redacted] a year ago
- [redacted] 2 years ago

Invoice [redacted] due on 07/11/2020 for [redacted]

Reply

[redacted] to [redacted]@nextcloud.com (cc [redacted]@nextcloud.com)

Dear [redacted],

An Invoice is attached to this e-mail as a PDF file.  
Invoice No. [redacted]  
Due Date:07/11/2020

[redacted] appreciates your business!

If you have any questions or concerns, please reply to this e-mail.

Sincerely,  
[redacted]

powered by Intacct.



Settings

+ New form

☰ Back to questions

- ☰ Nextcloud Forms questionnaire ...
- ✓ Party invitation ...
- ☰ Market research ...
- ☰ Fall camping trip! ...
- ☰ Customer feedback ...
- ☰ Best Google alternatives ...
- ☰ What to eat for lunch ...

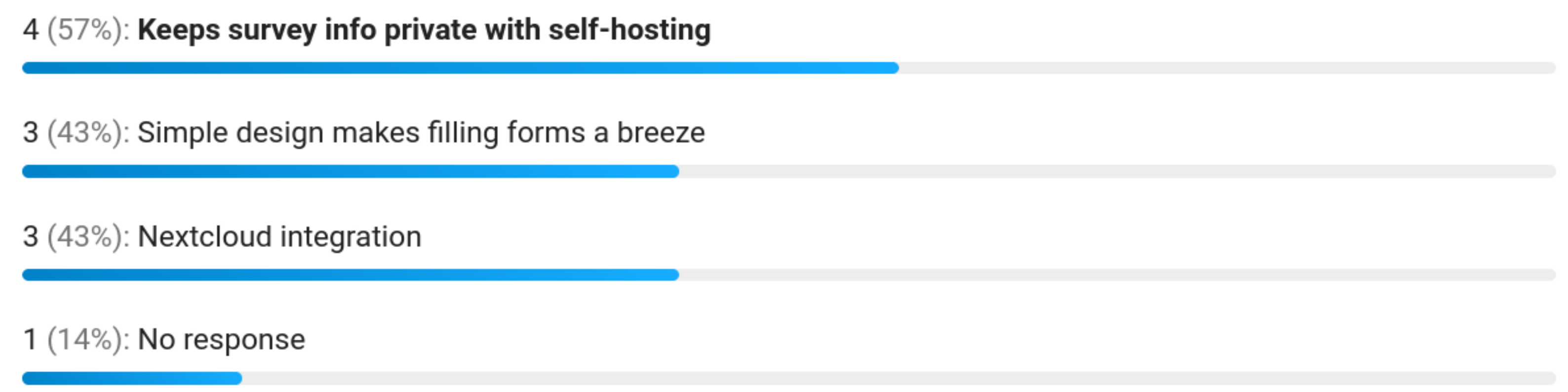
# Nextcloud Forms questionnaire

7 responses

Summary
Responses
...

## What do you like about this app?

Checkboxes





Nextcloud Hub 20





# Good evening

Set status

13.5 °C Fair night at 11:00 PM

### Recommended files

- sports-car-146873\_960\_7... .png
- new line dancing club (2).jpg
- Country-Dancing-Arthur\_... .jpg
- Nextcloud Hub LinkedIn b... .png
- Country-Dancing-Arthur\_... .jpg
- new line dancing club.jpg
- Billy\_Bobs\_Texas\_Countr... .jpg

### Talk mentions

✓

No unread mentions

- Talk updates ✓  
- You can now change your camer...
- market analysis.xlsx  
sports-car-146873\_960\_720.png
- Discuss project Butterscotch  
Nextcloud Hub LinkedIn backgrou...
- Weekly hangout 🥳  
You left the call
- Nina Cercy  
Are you available tomorrow?

### Upcoming events

- Release party 🎉  
Today at 11:00 PM
- fix reported issues  
Tomorrow at 12:00 AM
- Release integration apps for Nextclou...  
Monday at 2:00 PM
- Company call  
Tuesday at 11:00 AM
- Draft blogpost about integration  
Wednesday at 12:00 AM
- Company call  
in 11 days

### Upcoming cards

- Release party 🎉 📅 in 4 hours
- fix reported issues 📅 in 5 hours
- Release integration apps for... 📅 in 3 days
- Draft blogpost about integra... 📅 in 4 days

✎ Customize

Good afternoon

### Online status



Online



Away



Do not disturb  
Mute all notifications



Invisible  
Appear offline

### Status message



What's your status?



**In a meeting** - une heure



**Commuting** - 30 minutes



**Working remotely** - Today



**Out sick** - Today



**Vacationing** - Don't clear



- Search conversations or users
- Basketball team
- Company meeting
- internal chat
- totoroom
- Jenny

bridge-bot [mattermost] <neiluj> It is now possible to bridge Nextcloud Talk with many other messaging systems like Slack, Mattermost, Matrix !!!!

John No way!

bridge-bot [matrix] <eneiluj> How is that even possible?

Jenny Is it using a third party bridging service?

bridge-bot [mattermost] <neiluj> Nextcloud Talk now integrates Matterbridge and provides an easy interface to configure bridges

John Wow, cool, how do I use it?

You updated the Matterbridge configuration.

You updated the Matterbridge configuration.

bridge-bot [slack] <ju> It even works with Slack!

John Ah ok I can configure it directly in the Talk room settings

Start call

Company meeting

Participants Settings

**Bridge with other services**

You can bridge channels from various instant messaging systems with Matterbridge. More info on Matterbridge.

Enabled (not running)

Show matterbridge log

Add new bridged channel

Save

Slack

.....

#bridged

Matrix

https://matrix.org

eneiluj2

.....

!bjsbJKJfgezLLKFJfezfjz:matrix.org



Navigation pane on the left side of the File Explorer window.

- All files
- Recent
- Favorites
- Shares
- Tags
- Deleted files
- 8.7 MB used
- Settings

File list in the main pane:

Name
kilos_move_2020-09-05.csv
can't get you out of my head.txt
basic.ics
Talk
php
gpx
Google
big

5 folders and 4 files

Search results pane on the right side of the File Explorer window.

Search query: cou

Files

- coursive.md** in gpx (18 days ago)

Moodle course modules

- course type** (Test cours.../1 September - 7 September) (7 days ago)
- course feedback** (Test cours.../8 September - 14 September) (2 months ago)

Moodle courses

- Test course out of course** (Moodle course) (2 days ago)

Settings

- Connected accounts (Personal) (a month ago)
- Connected accounts (Administration) (a month ago)

- Personal**
- Personal info
- Security
- Activity**
- External storages
- Mobile & desktop
- Accessibility
- Sharing
- Flow
- Privacy
- Collabora Online
- Connected accounts
  
- Administration**
- Overview
- Support
- Basic settings
- Sharing
- Security
- External storages
- Theming
- Groupware
- Activity
- External sites
- Flow
- ...

## Notifications

Choose for which activities you want to get an email or push notification.

### Files

Mail	Push	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A favorite file or folder has been <b>changed</b>
<input type="checkbox"/>	<input type="checkbox"/>	A file or folder has been <b>changed</b>
<input type="checkbox"/>	<input type="checkbox"/>	A file has been added to or removed from your <b>favorites</b>
<input type="checkbox"/>	<input type="checkbox"/>	A file or folder has been <b>shared</b>
<input type="checkbox"/>	<input type="checkbox"/>	A file or folder was shared from <b>another server</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A file or folder shared by mail or by public link was <b>downloaded</b>

### Calendar and tasks

Mail	Push	
<input type="checkbox"/>	<input type="checkbox"/>	A <b>calendar</b> was modified
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A calendar <b>event</b> was modified
<input type="checkbox"/>	<input type="checkbox"/>	A calendar <b>todo</b> was modified

### Other activities

Mail	Push	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Your <b>group memberships</b> were modified
<input type="checkbox"/>	<input type="checkbox"/>	Your <b>password</b> or <b>email</b> was modified
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A local shared file or folder was <b>downloaded</b>
<input type="checkbox"/>	<input type="checkbox"/>	<b>Comments</b> for files
<input type="checkbox"/>	<input type="checkbox"/>	<b>System tags</b> for a file have been modified
<input type="checkbox"/>	<input checked="" type="checkbox"/>	You were invited to a <b>conversation</b> or had a <b>call</b>
<input type="checkbox"/>	<input type="checkbox"/>	Changes in the <b>Deck app</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A <b>card description</b> inside the Deck app has been changed
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A <b>comment</b> was created on a card

Send notification emails:

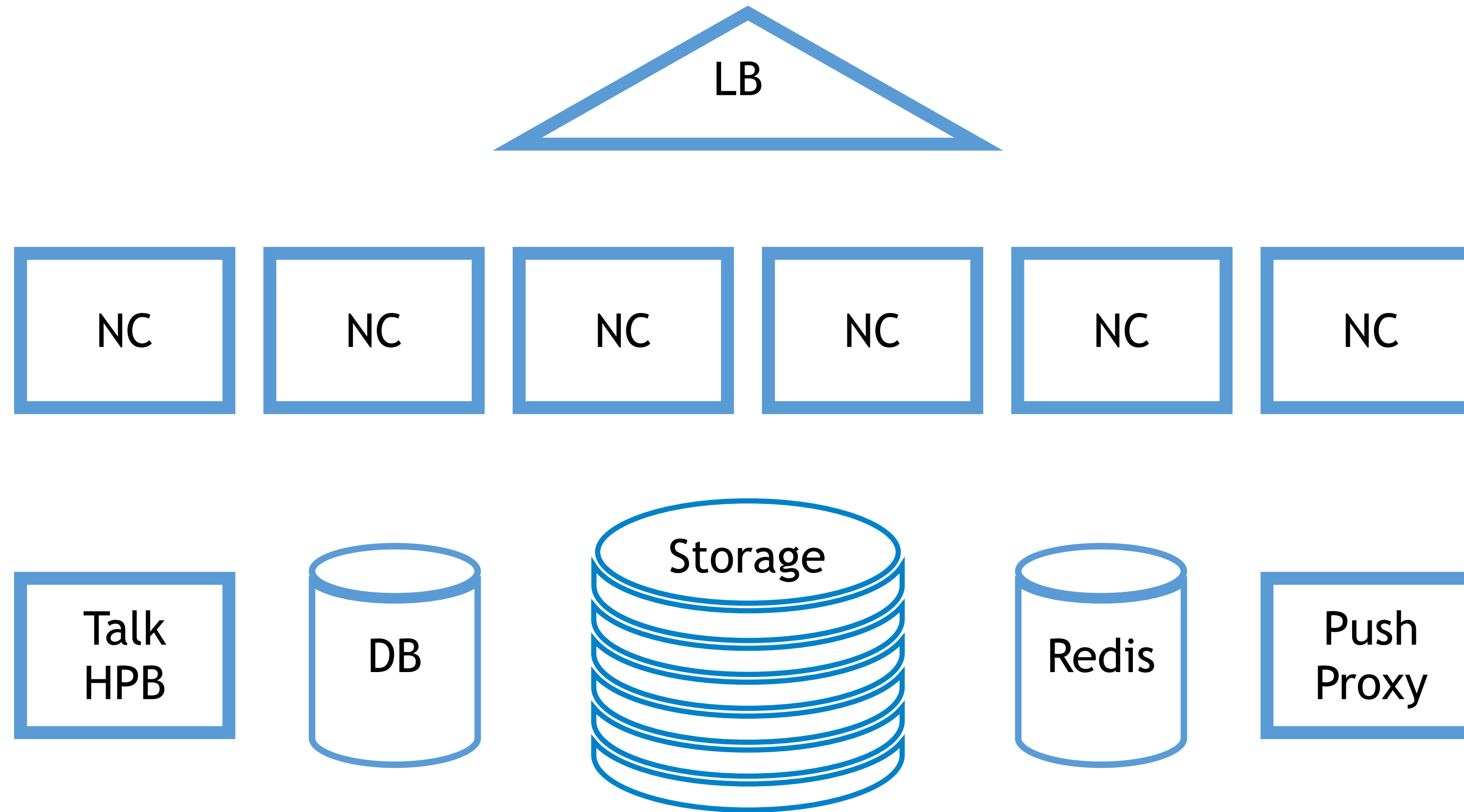
## Activity

Send daily activity summary in the morning



# Architecture update





# Global Scale

- Cluster of Clusters
- Scalability > 500k users
- Global distribution
- Cost efficiency
- Independent nodes
- Federated sharing between nodes
- Federated activities
- Federated Office editing
- Lookup Server
- Global Site Selector
- Balancer
- In production since 2018 for example at América Móvil (20M users)





# Architecture evolution

## Architecture goals:

- Stability
- Performance
- Competitive functionality
- Never feature regressions
- Access to big developer community
- Access to big technology ecosystem
- Easy to deploy and run and scale



## Nextcloud architecture strategy

- We don't do a complete rewrite.
- We do incremental improvements in all areas. (Vue.js, Go Push Proxy, S3, ...)
- Never compromise the user experience or flexibility or security
- Listen to customer feedback. Evolve together

# Best of breed technologies

## JS / Vue.js

Modern responsive Web UIs  
-> Nextcloud WebUI / Apps

## PHP

High level backend feature development  
Fast development speed  
Big technology ecosystem  
Big developer ecosystem  
Easy horizontal scaling  
-> Nextcloud collaboration features  
-> App ecosystem

## Rust / Go

Compute tasks  
Lot's of open connections  
-> Talk High Performance Backend  
-> Push Proxy  
-> more

## C / C++

Low level backend integration  
-> Nextcloud Talk SIP Gateway

## C++ / Qt

Cross platform desktop development  
-> Nextcloud Desktop client

## Python / Django

Interactive web applications  
-> Nextcloud App Store

## Java / Kotlin

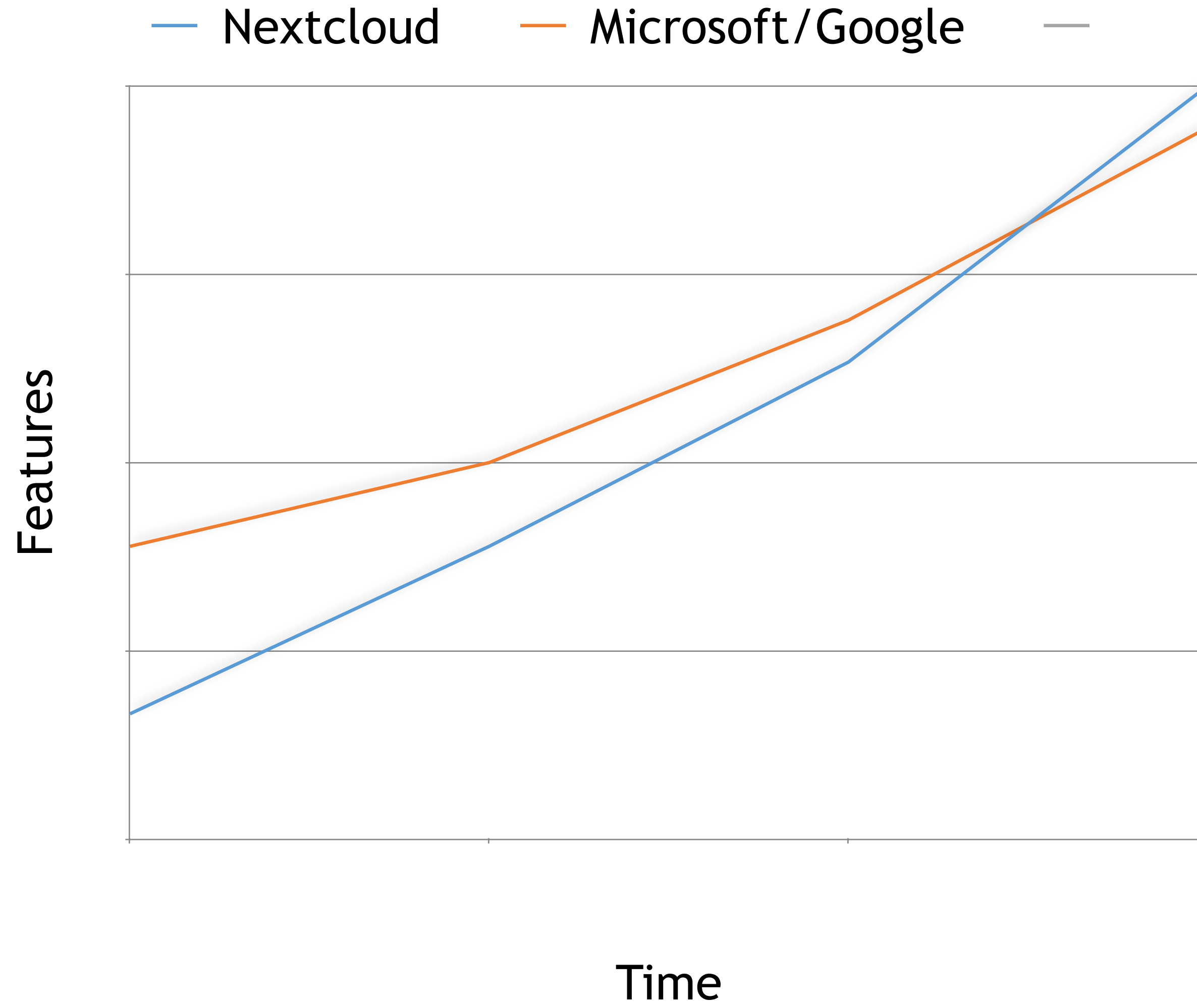
Native mobile apps  
-> Nextcloud Android Apps

## Swift / Objective-C

Native mobile apps  
-> Nextcloud iOS Apps

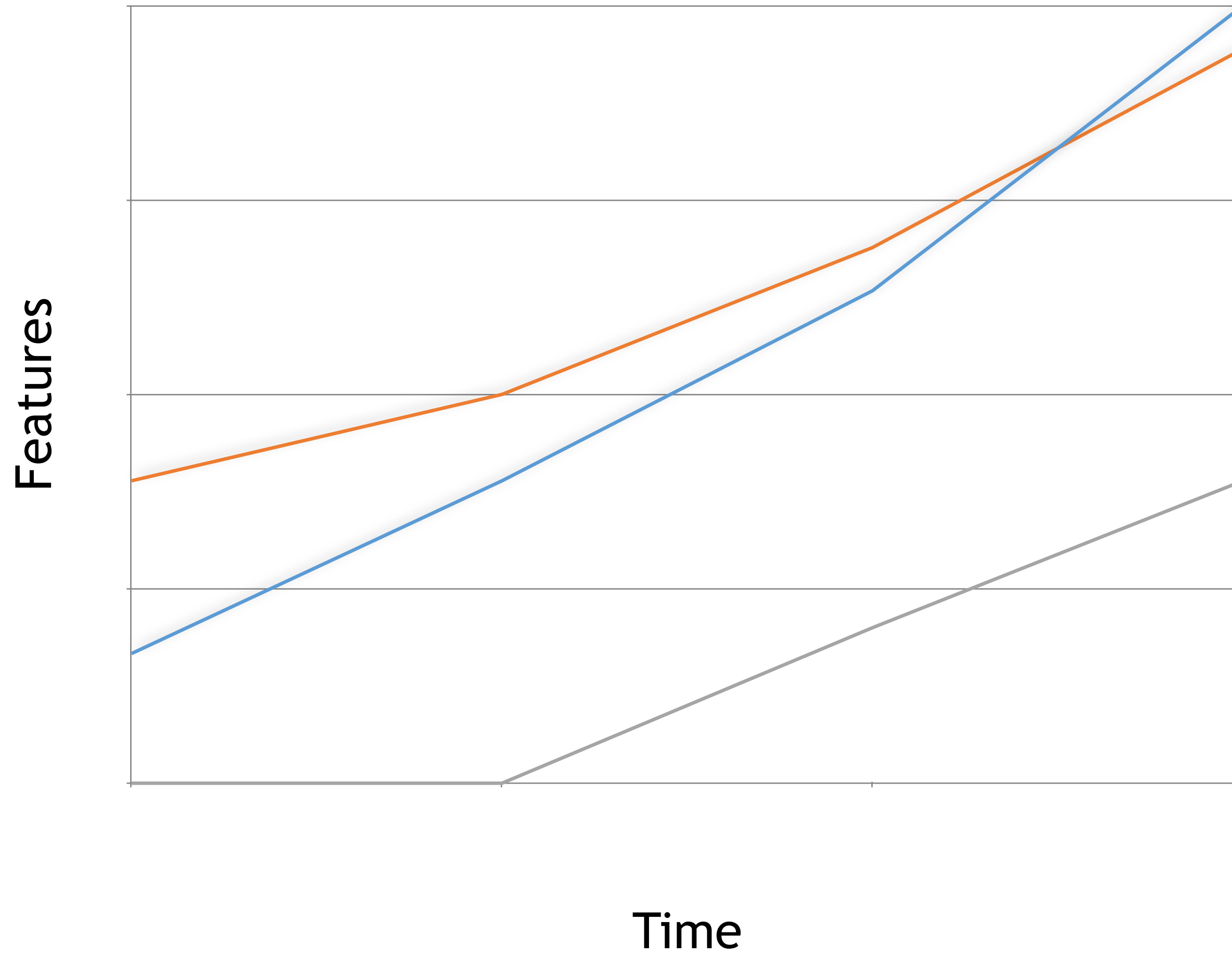


# Product Feature Momentum



# Product Feature Momentum

— Nextcloud — Microsoft/Google — rewrite

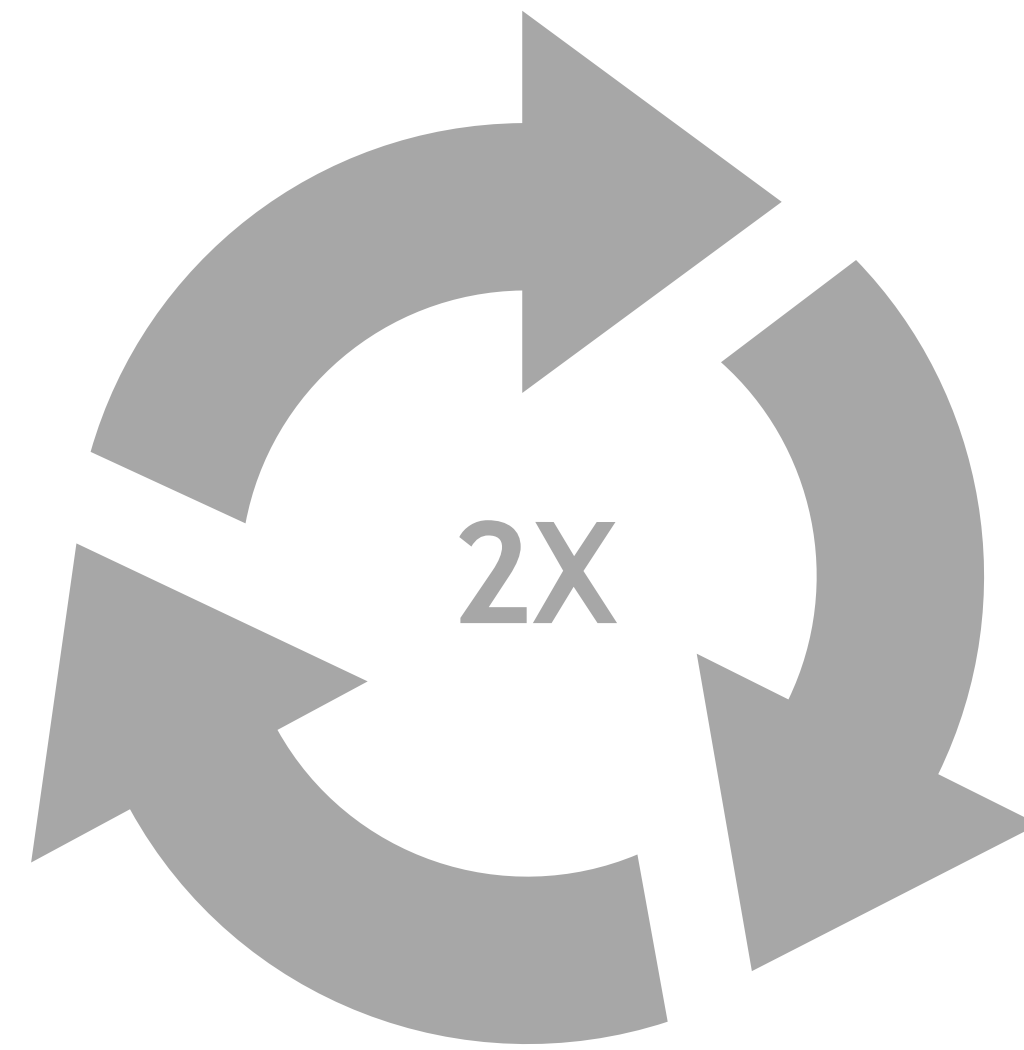




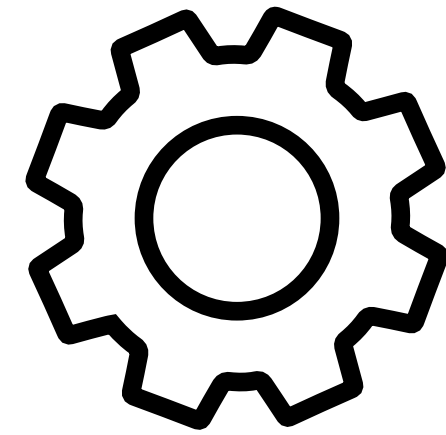
Fast iterations



Nextcloud Hub 21

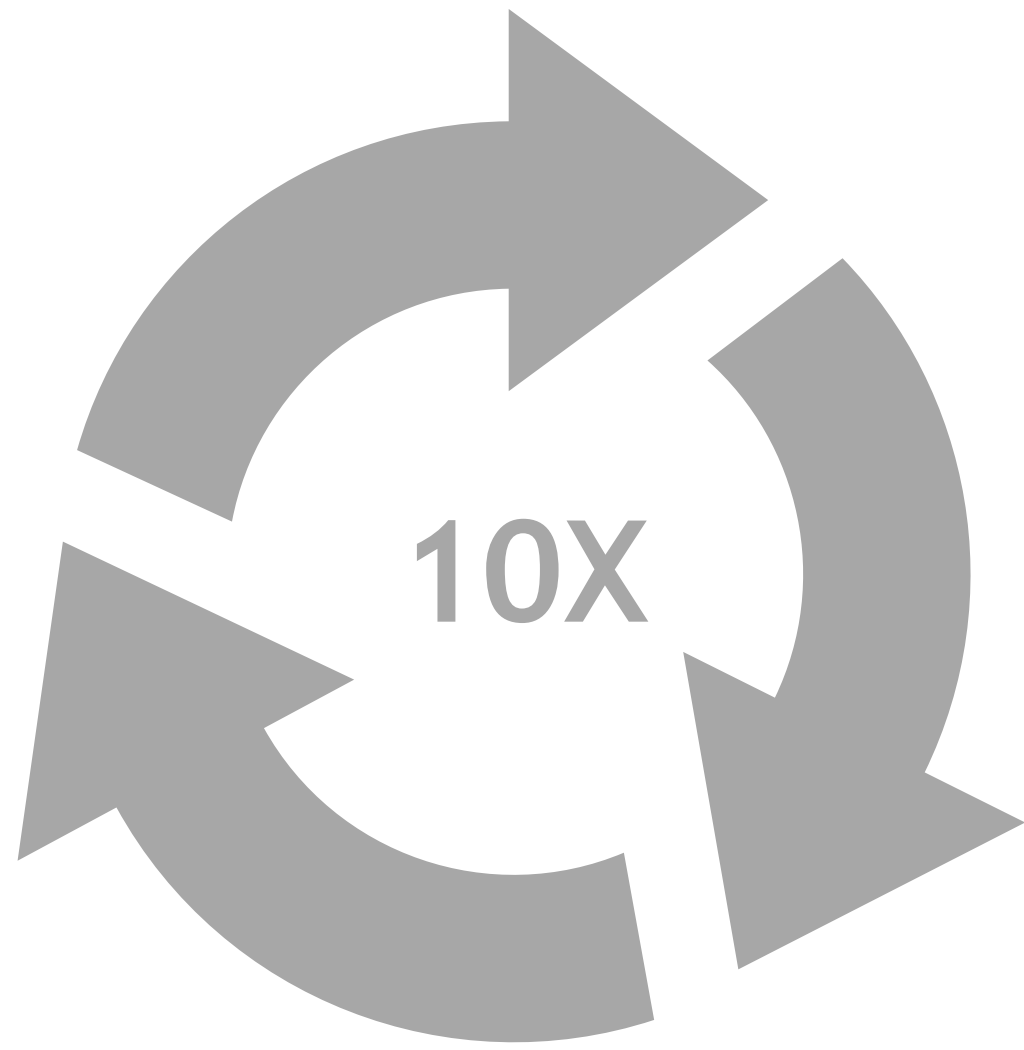


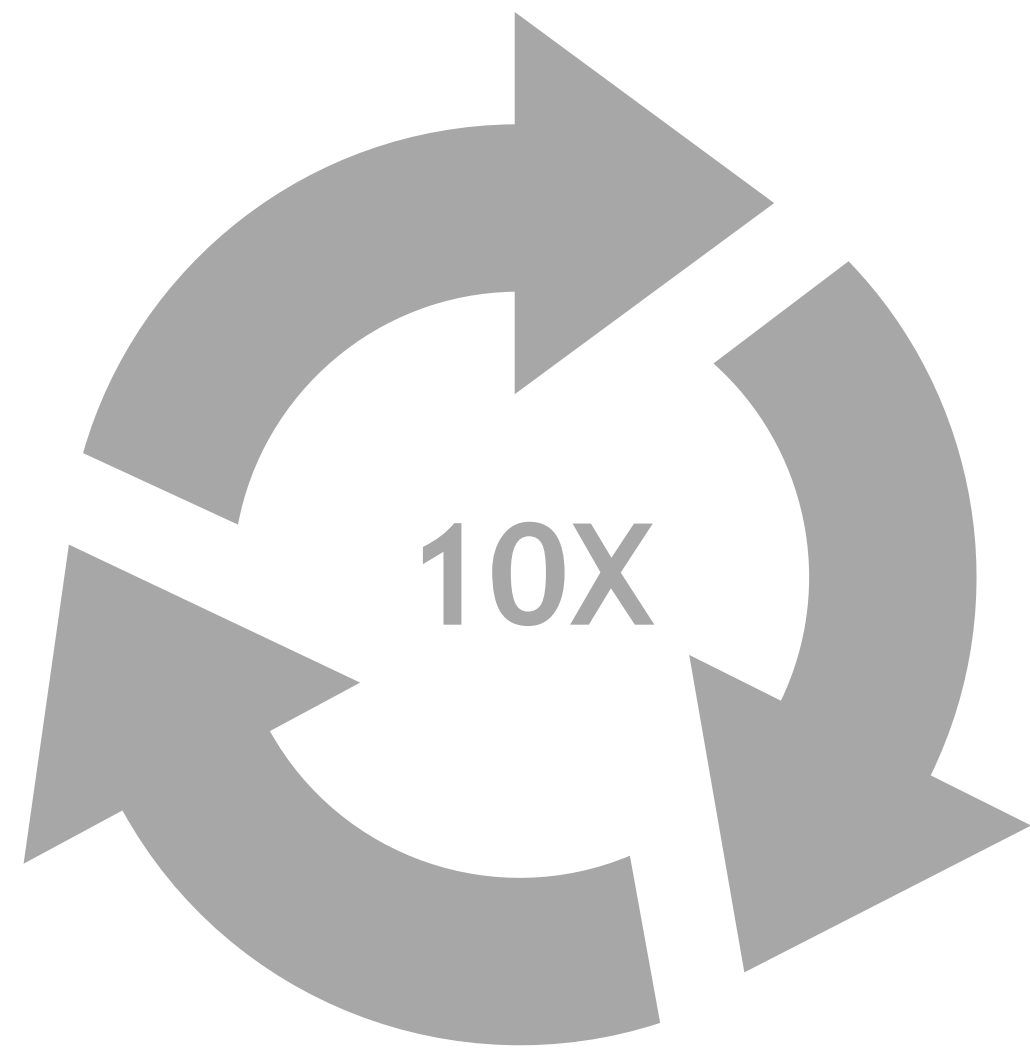




High Performance Backend for Files

⚙️ High Performance Backend for Files

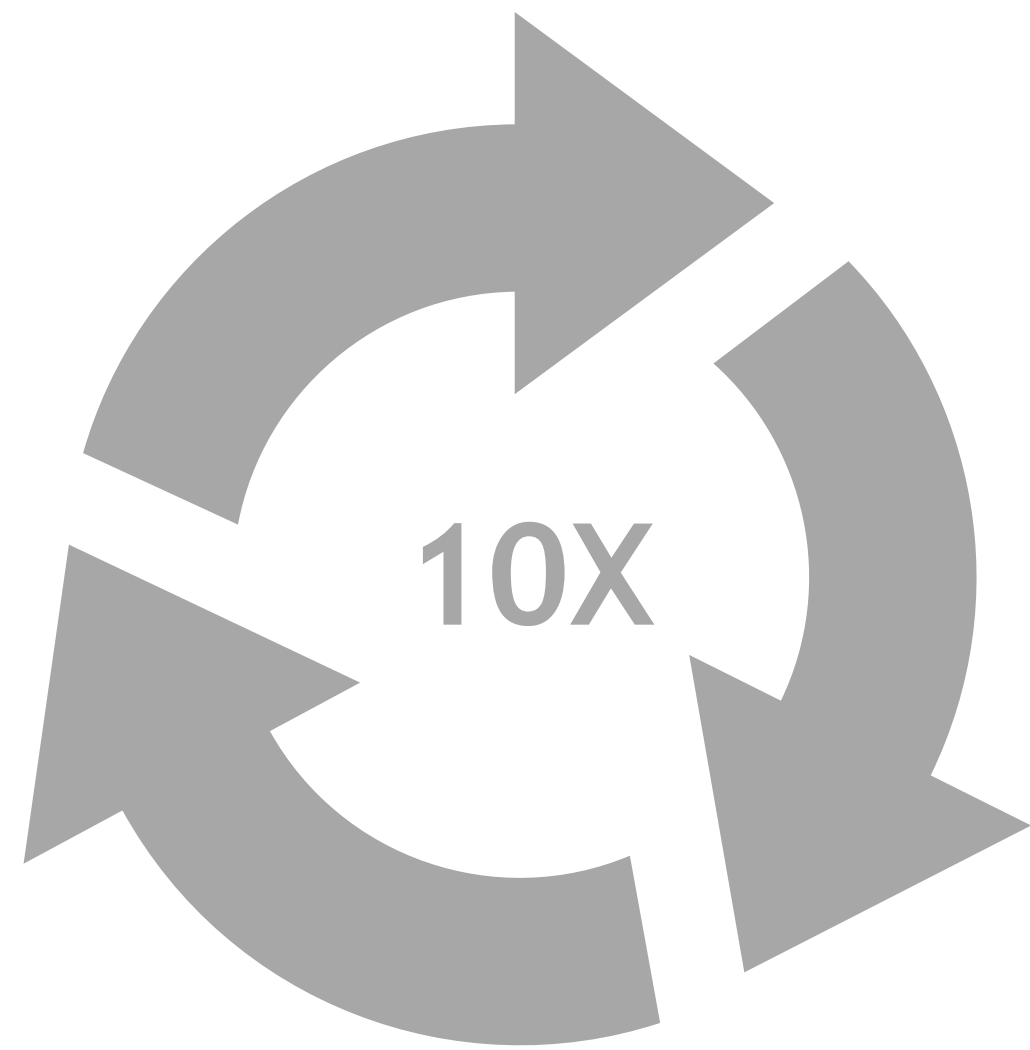




## ⚙️ High Performance Backend for Files

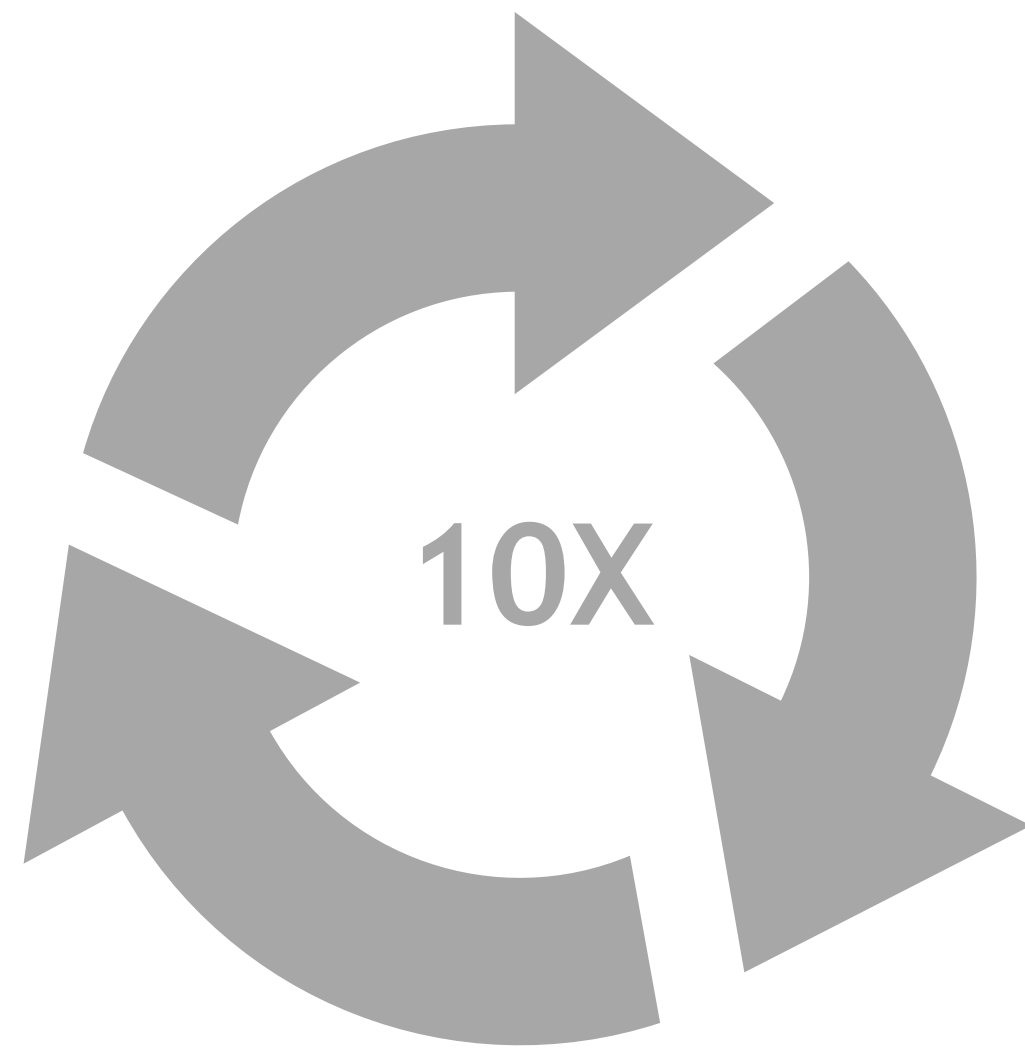
- Written in Rust





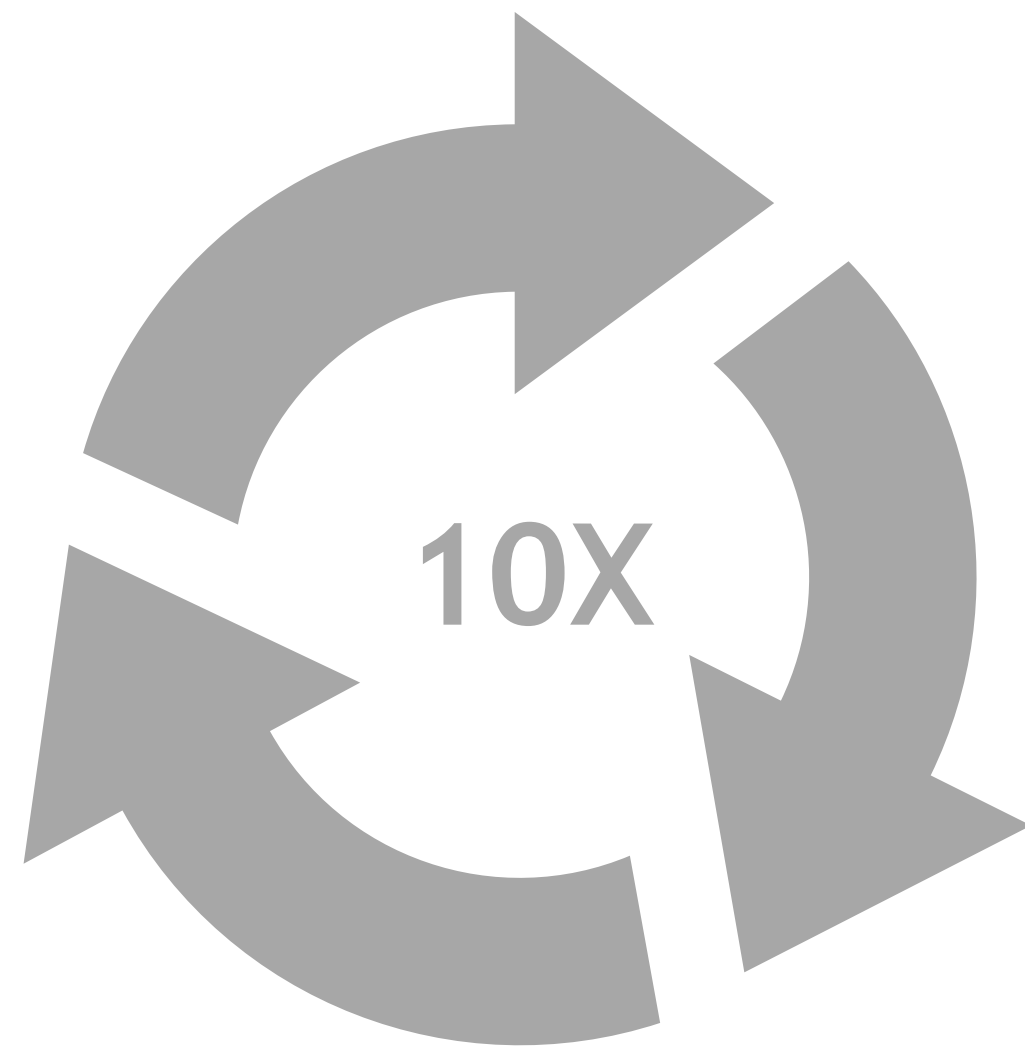
## ⚙️ High Performance Backend for Files

- Written in Rust
- Works in addition to the current code



## ⚙️ High Performance Backend for Files

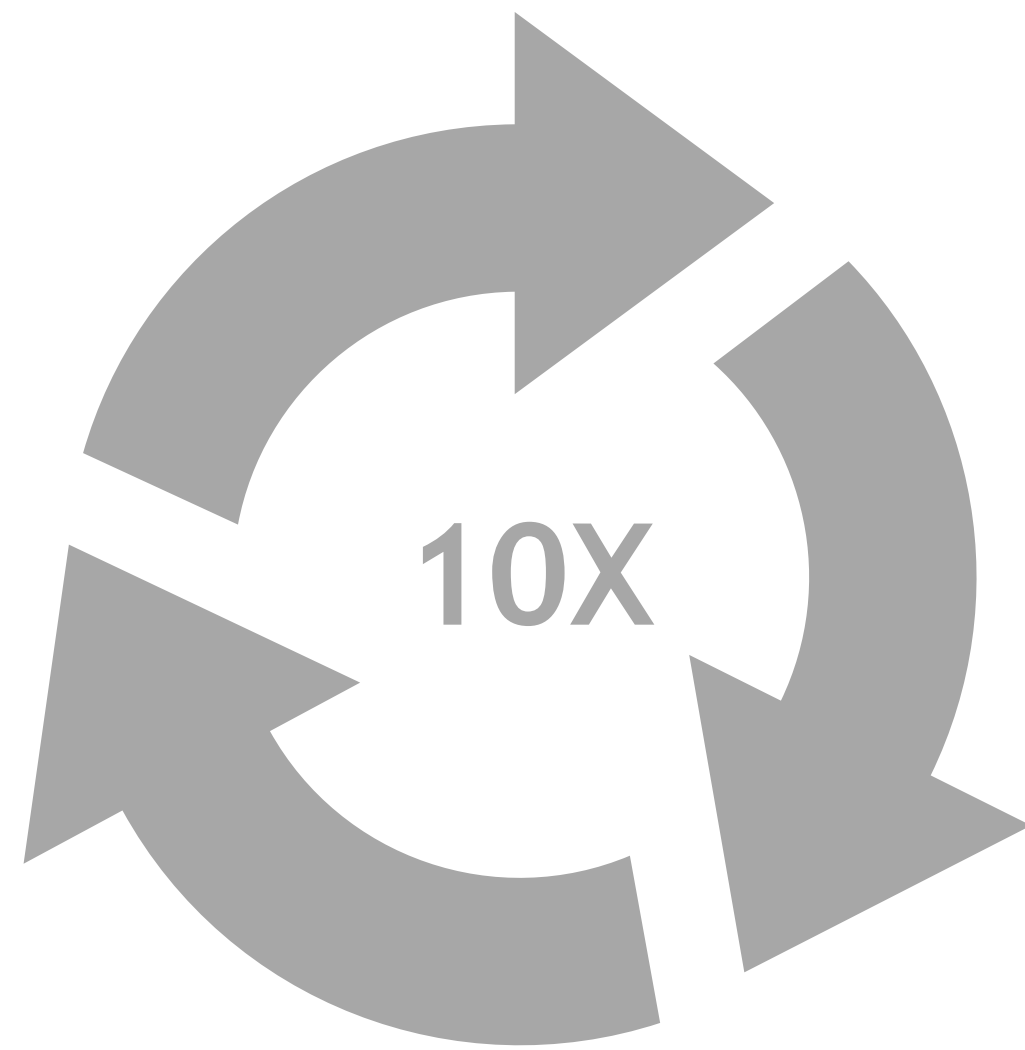
- Written in Rust
- Works in addition to the current code
- Optional



## ⚙️ High Performance Backend for Files

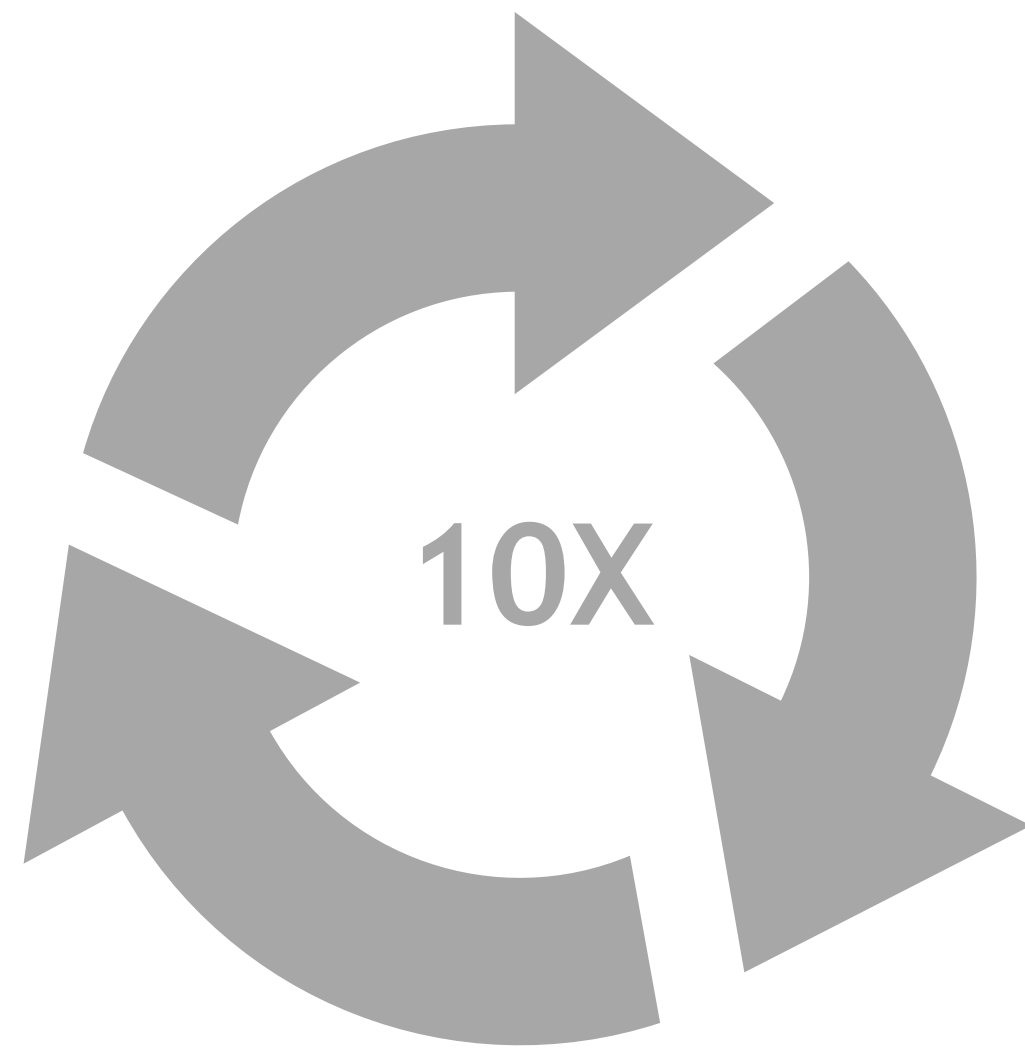
- Written in Rust
- Works in addition to the current code
- Optional
- Up to 10x - 15x performance improvements





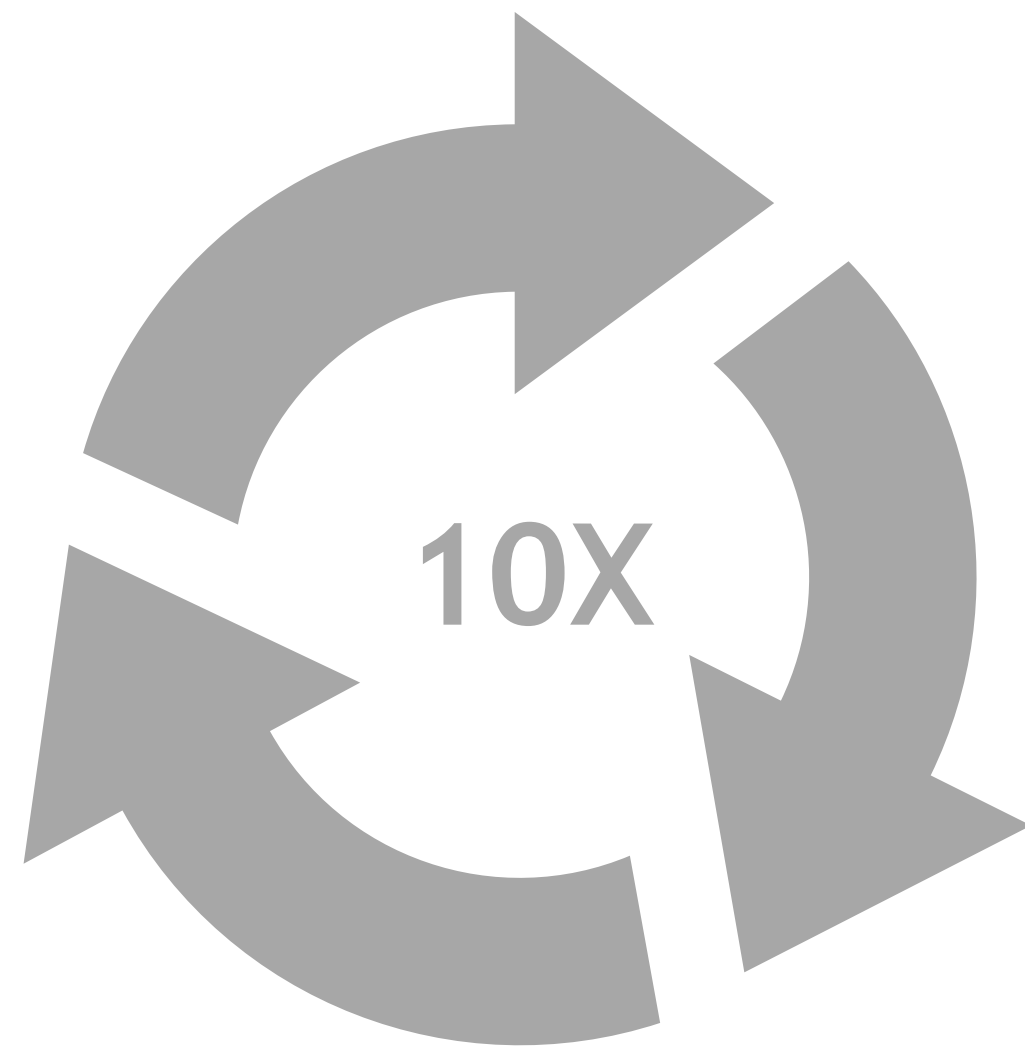
## ⚙️ High Performance Backend for Files

- Written in Rust
- Works in addition to the current code
- Optional
- Up to 10x - 15x performance improvements
- NO feature regressions



## ⚙️ High Performance Backend for Files

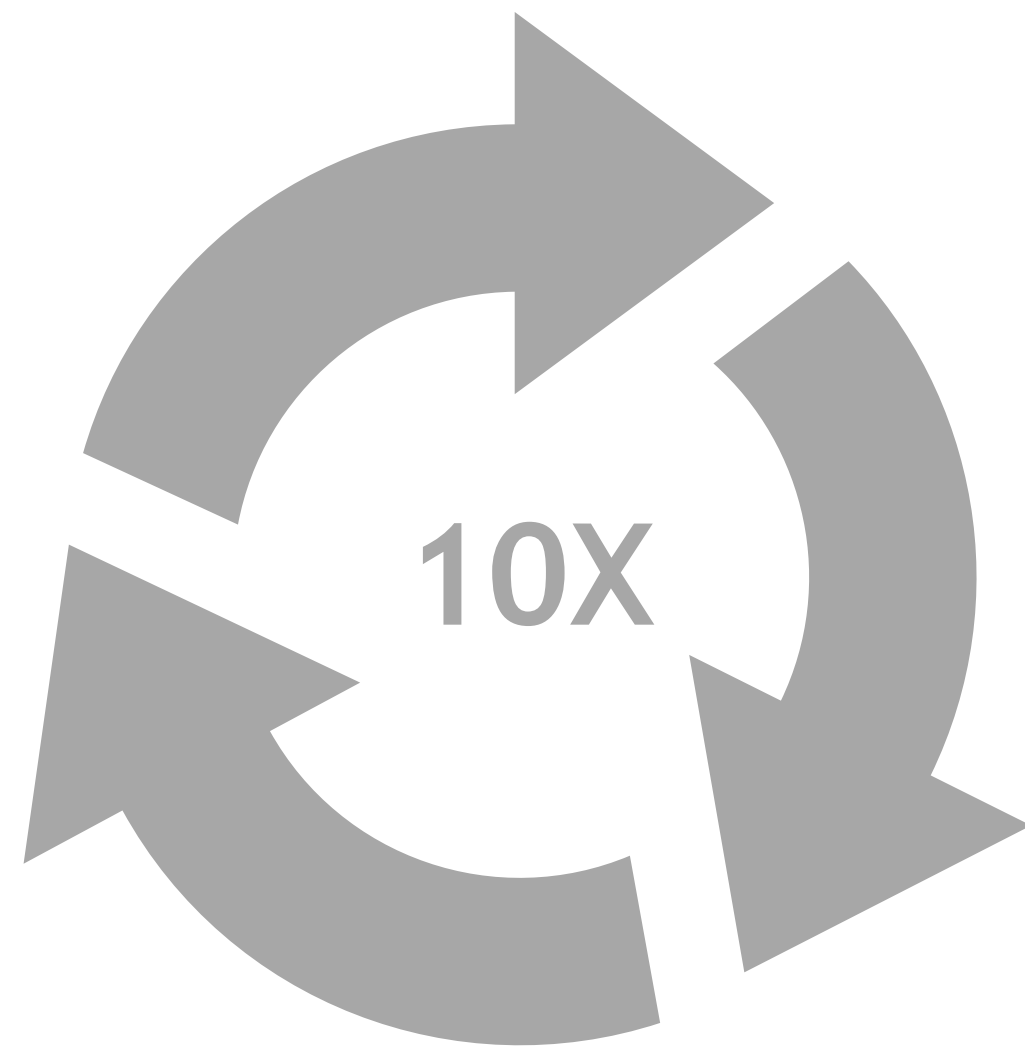
- Written in Rust
- Works in addition to the current code
- Optional
- Up to 10x - 15x performance improvements
- NO feature regressions
- Works with and without Global Scale



## ⚙️ High Performance Backend for Files

- Written in Rust
- Works in addition to the current code
- Optional
- Up to 10x - 15x performance improvements
- NO feature regressions
- Works with and without Global Scale
- Open Source





## ⚙️ High Performance Backend for Files

- Written in Rust
- Works in addition to the current code
- Optional
- Up to 10x - 15x performance improvements
- NO feature regressions
- Works with and without Global Scale
- Open Source
- Production ready with Nextcloud Hub 21 in 3 weeks



# Summary

# Nextcloud

Alternative to

- Dropbox
- Google Workspace
- Office 365

but

- On Prem
- 100% open source
- Distributed / Federated



Questions?

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