

Nextcloud, le *cloud* de *l'hygiène numérique*

GENMA

Nextcloud - le cloud de l'hygiène numérique

Résumé de la conférence

L'hygiène numérique est l'ensemble des bonnes pratiques à adopter pour des usages respectueux de la vie privée, des données personnelles ou confidentielles.

Du cloud pour un usage personnel au cloud professionnel, Nextcloud est la solution qui peut répondre à ces enjeux.

Durée

30 minutes, 10 minutes de questions

Et ensuite c'est la pause, on peut continuer d'échanger ;-)

Qui suis-je ?



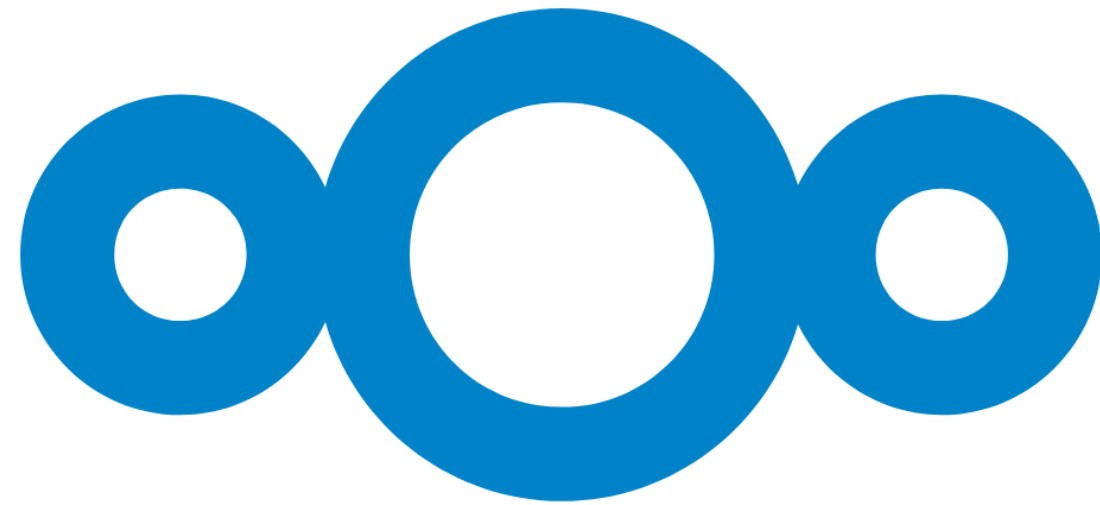
<https://blog.genma.fr>

Dans le logiciel libre depuis 20 ans

Je parle de Nextcloud, vie privée, hygiène numérique

Membre de Framasoft, conférencier, vulgarisateur, blogueur, papa

Nextcloud ?



Nextcloud

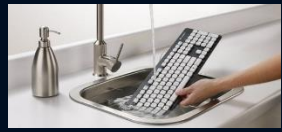
Le cloud ?



Hygiène numérique ?



Hygiène numérique ?



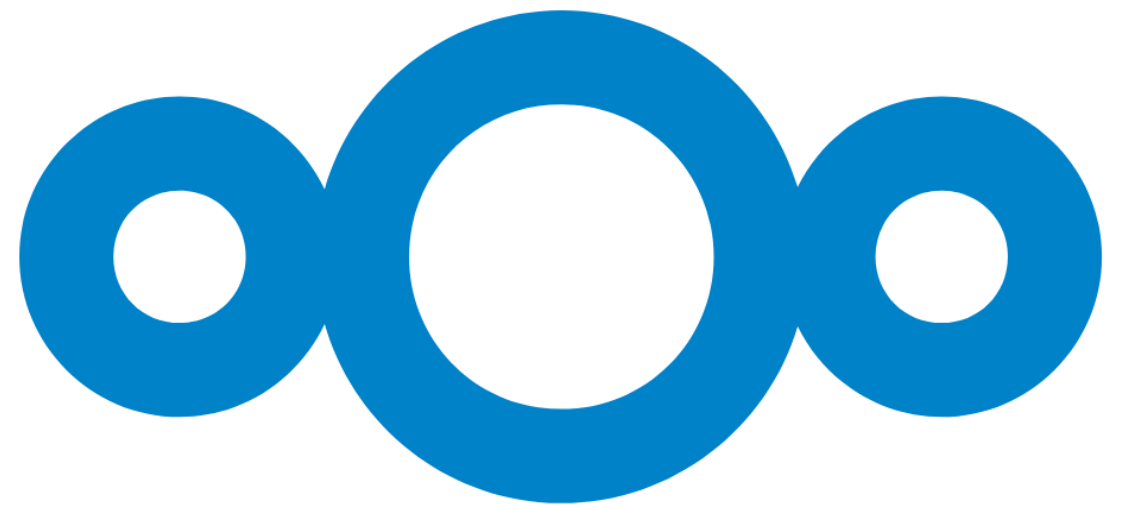
L'hygiène numérique consiste à adopter des bonnes pratiques pour assurer la sécurité et la confidentialité de ses informations et données personnelles en ligne.

Quelques-unes des bonnes pratiques les plus importantes de l'hygiène numérique :

- Utilisez des mots de passe forts et différents pour chaque compte en ligne
- Mettez à jour régulièrement vos logiciels, systèmes d'exploitation, navigateurs web et applications mobiles.
- Évitez de cliquer sur des liens suspects ou inconnus, ou de télécharger des pièces jointes de sources non fiables.
- Utilisez des outils de sécurité en ligne pour protéger votre appareil
- Faites des sauvegardes régulières de vos données importantes

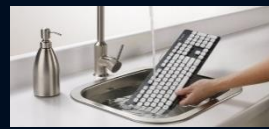
En appliquant ces bonnes pratiques de l'hygiène numérique, vous pouvez mieux protéger vos informations et données personnelles en ligne et réduire les risques de vol ou de compromission de vos informations.

Les mots de passe



Nextcloud

Hygiène numérique – Les mots de passe

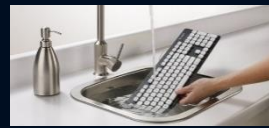


Blog de Nextcloud « **Password Managers for Nextcloud** » <https://nextcloud.com/blog/password-managers-for-nextcloud/>

The screenshot displays the Nextcloud Password Manager interface. On the left is a navigation sidebar with options: All, Folders, Recent, Favorites, Shares, Tags, Security, Trash, and More. The main area shows a list of saved passwords under the 'All' category. Each entry includes a star icon, a service icon, the service name, a security status indicator (green shield for secure, red shield for insecure), and the time since saved.

Star	Service Icon	Service Name	Status	Time
★	Nextcloud	Nextcloud	Secure	5 years ago
☆	Nextcloud App Store	Nextcloud App Store	Secure	4 years ago
☆	Nexusmods	Nexusmods	Secure	6 years ago
☆	Nokia	Nokia	Secure	4 years ago
☆	NPM	NPM	Secure	4 years ago
☆	Office 365	Office 365	Secure	7 years ago
☆	Onedrive	Onedrive	Secure	4 years ago
☆	Oneplus Forum	Oneplus Forum	Secure	5 years ago
☆	Oneplus Shop	Oneplus Shop	Secure	6 years ago
☆	OpenLDAP	OpenLDAP	Insecure	4 years ago
☆	Outlook	Outlook	Secure	5 years ago
☆	Patreon	Patreon	Secure	4 years ago
☆	PayDirekt	PayDirekt	Secure	5 years ago

Hygiène numérique – Les mots de passe



Password policy

- Minimum password length
- User password history
- Number of days until user password expires
- Number of login attempts before the user account is blocked (0 for no limit)

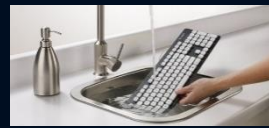
- Forbid common passwords
- Enforce upper and lower case characters
- Enforce numeric characters
- Enforce special characters
- Check password against the list of breached passwords from haveibeenpwned.com

This check creates a hash of the password and sends the first 5 characters of this hash to the haveibeenpwned.com API to retrieve a list of all hashes that start with those. Then it checks on the Nextcloud instance if the password hash is in the result set.

Documentation de Nextcloud **User password policy**

https://docs.nextcloud.com/server/latest/admin_manual/configuration_user/user_password_policy.html

Hygiène numérique – 2FA

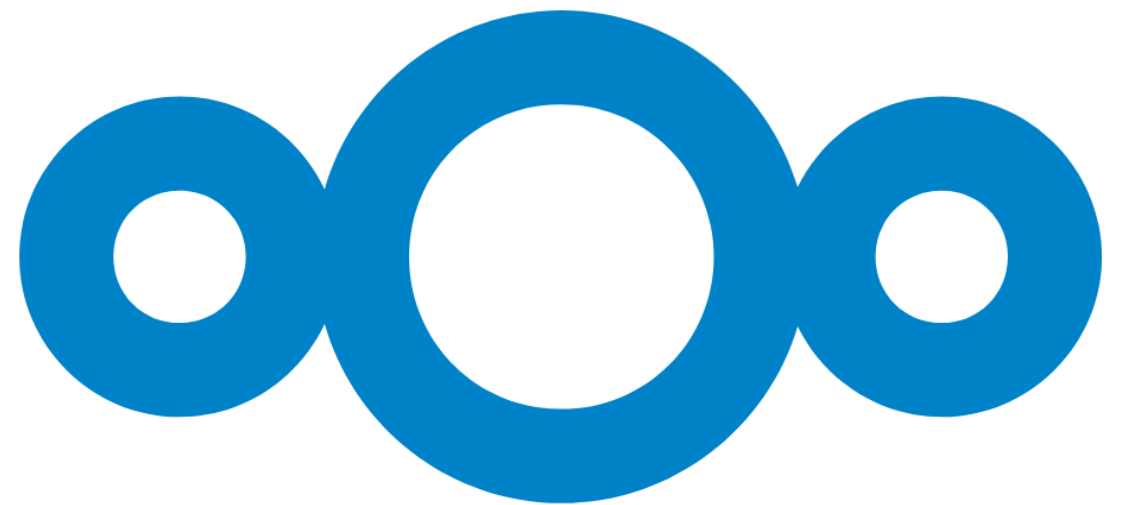


Authentification à deux facteurs https://docs.nextcloud.com/server/latest/user_manual/fr/user_2fa.html

The screenshot shows the Nextcloud user interface. On the left is a navigation sidebar with categories: Personal (Personal info, Security, Accessibility, Sharing) and Administration (Overview, Basic settings, Sharing, Security, Theming, Groupware, Workflow). The main content area is titled "Two-Factor Authentication" and contains three sections:

- Backup code:** A lock icon, text "Backup codes have been generated. 0 of 10 codes have been used.", a "Regenerate backup codes" button, and a note: "If you regenerate backup codes, you automatically invalidate old codes."
- TOTP (Authenticator app):** A QR code icon, a radio button for "Enable TOTP", the text "Your new TOTP secret is: BDYEWMHZNSPDQD2I", and "For quick setup, scan this QR code with your TOTP app:". Below is a large QR code. Further down, text says "After you configured your app, enter a test code below to ensure everything works correctly:", followed by an "Authentication code" input field and a "Verify" button.
- U2F device:** A key icon, text "No U2F devices configured. You are not using U2F as second factor at the moment.", and an "Add U2F device" button.

Partage de documents



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Hygiène numérique – Partage de documents



The image displays two digital file management interfaces. On the left is a mobile application interface with a blue header and a list of files. On the right is a desktop web interface for Nextcloud, showing a file browser with folders and documents.

Mobile App File List:

File Name	Size	Date	Share Icon
aircraft.jpg	92 KB	12/15/2017	Link icon
animals.jpg	120 KB	9/22/2017	Share icon
bananabre...e bleed.jpg	565 KB	4/20/2020	Share icon
bear-cub.jpg	697 KB	Sep 22	Share icon

Desktop Nextcloud Interface:

- Workspace of Christine
- Readme.md (Recently edited)
- more pictures (Recently edited)
- by_eugene_lisyuk_648... .jpg (Recently edited)
- by_eugene_lisyuk_648... .jpg (Recently edited)

File browser view:

Name	Size	Modified
Photos		
Talk		
01_Line Dan...		
Media		
pets		
more pics		
Collectives		
Bank docum...		
Templates		
Templates Pr...		
new document		
test document		
Travel to Jap...		
New diagram		
New docume...		
Readme		
user		
Modèles		
Nextcloud_S...		
FlowChart-Pro		
my hair today		
.Contacts-Backup		
.Calendar-Backup		
Deck		

Hygiène numérique – Partage de photos



A screenshot of a photo gallery application interface. The top bar is blue with various icons for navigation and search. On the left, a sidebar lists categories: All media, Photos, Videos, Albums, Collaborative albums, People, Folders, Favorites, On this day, Shared with you, Tags, and Locations. The main area is titled 'All your media' with a '+ Add' button. Below this, it shows 'September 2022' and a grid of 30 photo thumbnails. The photos include a red car, a fountain, flowers, a beach, a building, a hallway, food, a lighthouse, a cat, a couple, a motorcycle, a fountain, a building, a couple, a dog, and a cat. At the bottom left, there is a 'Photos settings' icon.

Protéger son appareil

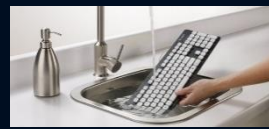


Nextcloud

Hygiène numérique – Protéger son appareil

“5 Unique Security Features by Nextcloud” – Remote wipe

<https://nextcloud.com/blog/5-unique-security-features-by-nextcloud/>

A screenshot of the Nextcloud user settings page, specifically the 'Security' section. The page is displayed in a browser window with multiple tabs. The left sidebar contains navigation options: Personal, Security, Activity, Mobile & desktop, Accessibility, Sharing, OCR, Privacy, Administration, Overview, Basic settings, Support, Sharing, Security, Guests, Theming, and Groupware. The main content area is titled 'Two-Factor Authentication' and includes sections for 'Backup code', 'Nextcloud Notification', 'TOTP (Authenticator app)', and 'U2F device'. A modal dialog box titled 'Confirm wipe' is overlaid on the page, asking 'Do you really want to wipe your data from this device?' with 'No' and 'Yes' buttons. Below the security settings, there is a 'Devices & sessions' section with a table of active sessions and a 'Create new app password' button.

Personal

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

Administration

- Overview
- Basic settings
- Support
- Sharing
- Security
- Guests
- Theming
- Groupware

Two-Factor Authentication

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

Backup code

Generate backup 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.

Add U2F device

You are accessing this site via an insecure connection. Browsers might therefore refuse the U2F authentication.

Confirm wipe

Do you really want to wipe your data from this device?

No Yes

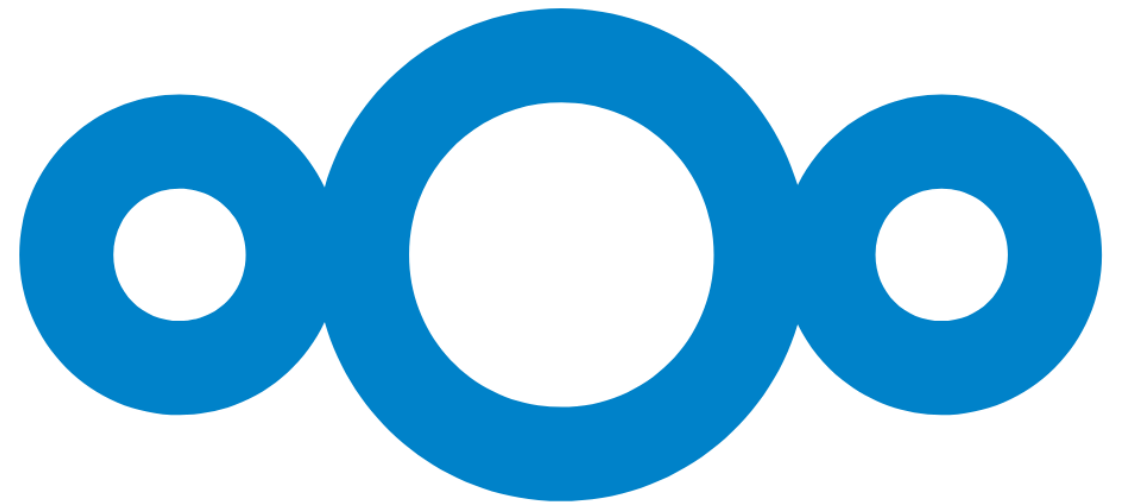
Devices & sessions

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

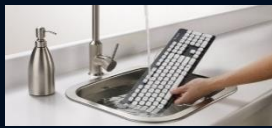
Device	Last activity
This session	seconds ago
Google Chrome 76 - Linux	10 days ago

App name Create new app password

Mise à jour



Nextcloud


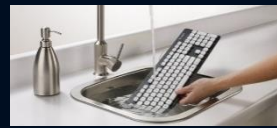


Pensez à avoir un Nextcloud à jour !

- Nextcloud informe régulièrement sur les mises à jours et versions correctives via différents canaux (Site, réseau sociaux, forum, newsletter...)
- Il faut mettre les applications à jours
 - Et suivre si elles sont maintenues, abandonnées/obsolètes etc.
- Pensez aussi à mettre à jour le client (sur PC & appareils mobiles)

Hygiène numérique – Mise à jour

<https://nextcloud.com/fr/security/>



Produits Solutions Communauté A propos de nous Essai instantané [Obtenir Nextcloud](#) [FR](#)

Security and advisories

This page hosts our security policies and information with regards to reporting security flaws.

NEXTCLOUD SECURITY


Security in Nextcloud

Nextcloud is designed to offer the best security in the on-premises content collaboration industry. Read more about the security features and our development process.

[More about security](#)

[Security advisories](#) [Official CVE database](#) [Threat model](#)

Report a security issue



Server owners

For server owners, our documentation has a section with best practices and tips on securing a Nextcloud server.

[Voir plus >](#)



Check the security of your private Nextcloud server

Privacy does not exist without security. To help you keep your data yours, this scan analyzes the security of your server and gives you an overview of what to improve.



URL	<input type="text" value="cloud.nextcloud.com"/>	Scan
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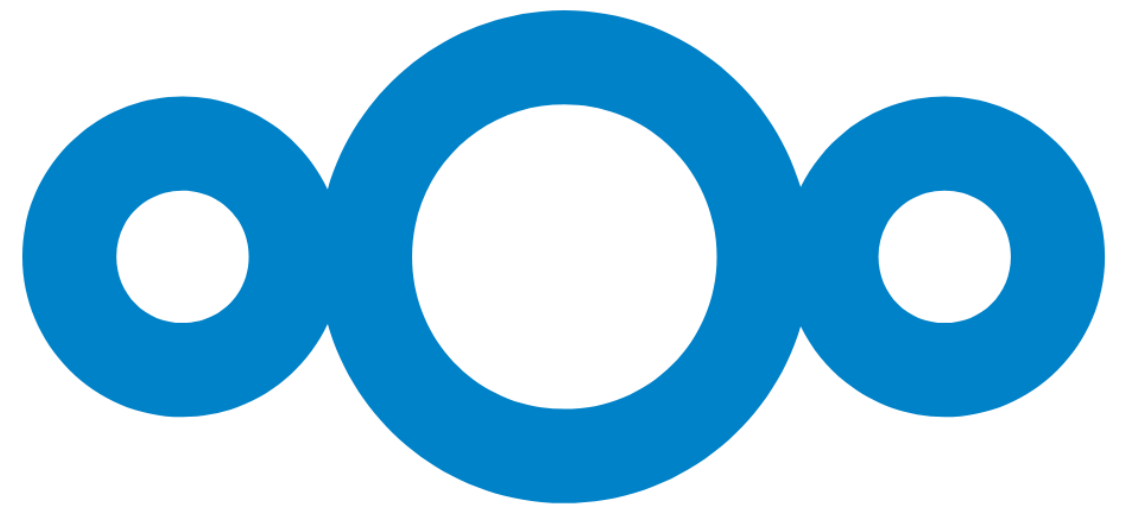
Notes

Our scan is strictly based on **publicly available information**, that is the list of known vulnerabilities relevant for ownCloud/Nextcloud releases as well as any applied hardenings/settings we can scan without having access to the server. Find more hardening tips [in our hardening guide](#) and keep your system up to date.

This is no more than a snapshot in time. Security is an ongoing process and new insights and updates have to be applied to remain secure.

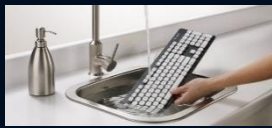
No complicated system can ever be fully secure and even an A+ rated system can be vulnerable to unknown issues and determined (state)

Sauvegarde



Nextcloud

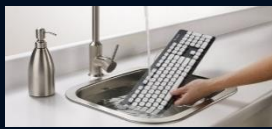
Hygiène numérique – Sauvegarde 3-2-1



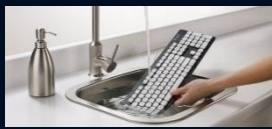
La règle des 3-2-1

La **règle** stipule que vous devez avoir au moins trois copies de vos données; deux des **sauvegardes** doivent être stockées sur des types de supports différents, et au moins une **sauvegarde** doit être stockée hors site ou sur le cloud.

Hygiène numérique - Sauvegarde



- Sauvegarde de son smartphone, de son PC sur une instance Nextcloud : on a alors une copie locale & à distance
- PENSEZ à sauvegarder NEXTCLOUD !
 - Quoi sauvegarder ? Base de données & fichiers
 - Export chez soi régulier si « Cloud » à distance ou en ligne si « cloud autohébergé chez soi »
- Quoi sauvegarder ?
 - Classique : données utilisateurs, configuration, base de données (dump)
- Documentation :
 - https://docs.nextcloud.com/server/latest/admin_manual/maintenance/backup.html



- Nextcloud propose un outil de sauvegarde <https://apps.nextcloud.com/apps/backup>

Backups configuration

General configuration on how and when your restoring points are created.

Backup schedule

Create restoring points during the following time slot during the day: and

Allow to create full restoring points during week day

Delay between two full restoring points: days

Delay between two partial restoring points: days

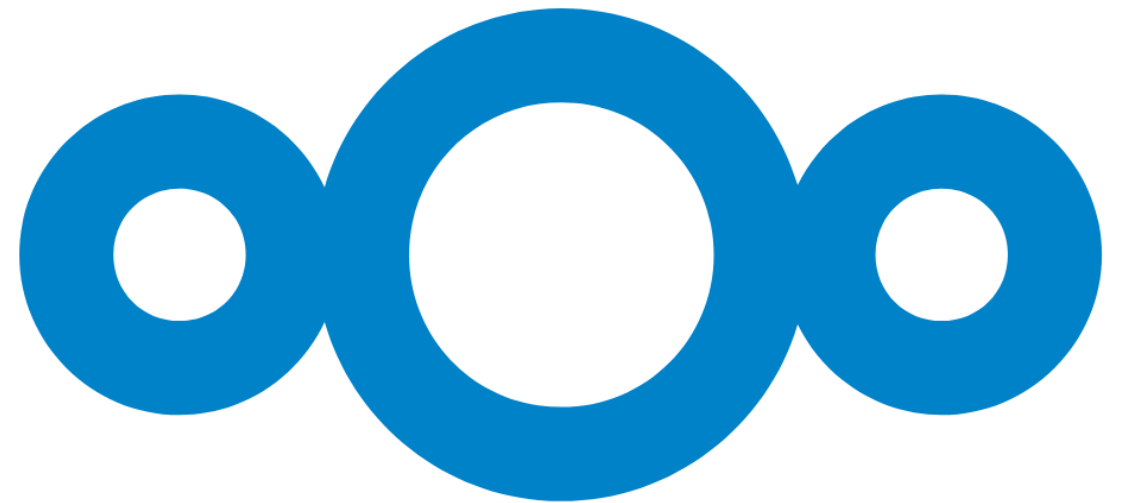
Restoring point packing

Enable restoring point packing

Enable encryption

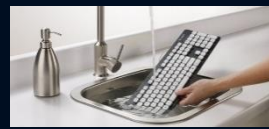
Enable compression

Protection contre les rançongiciels



Nextcloud

Hygiène numérique – Les rançongiciels



The screenshot shows the Nextcloud administration interface. On the left is a navigation menu with options: Grundeinstellungen, Teilen, Sicherheit, Theming, Verschlüsselung, Aktivität, Workflow, Protokollierung, Zusätzliche Einstellungen, and Tipps & Tricks. The main content area is divided into two sections: OAuth-2.0-Clients and Ransomware protection.

OAuth-2.0-Clients

OAuth 2.0 erlaubt es externen Services nach Zugriff auf Nextcloud zu fragen.

Name	Weiterleitungs-URI	Client-Identifikationsmerkmal	Geheimnis
------	--------------------	-------------------------------	-----------

Client hinzufügen

Name Weiterleitungs-URI

Ransomware protection

Include note files with non-obvious names, e.g. ReadMe.TXT, info.html

Additional extension patterns

One pattern per line. If the pattern is a regular expression it has to start with ^ or end with \$. Leading dot or underscore on non-regular expression patterns mean that the name has to end with the given string.

ImFamous.Radio

Additional note file patterns

One pattern per line. If the pattern is a regular expression it has to start with ^ or end with \$ otherwise the name must be a complete match.

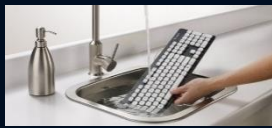
Exclude extension patterns

One pattern per line. Copy the exact string from the resource file. This helps keeping your exclusions while updating the app.

Exclude note file patterns

One pattern per line. Copy the exact string from the resource file. This helps keeping your exclusions while updating the app.

Hygiène numérique – Les rançongiciels

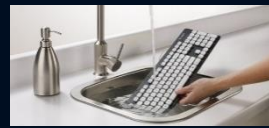


- How Nextcloud helps protect against ransomware
<https://nextcloud.com/fr/blog/how-nextcloud-helps-protect-against-ransomware/>
- App Ransomware protection
https://apps.nextcloud.com/apps/ransomware_protection

Chiffrement



Nextcloud



- Chiffrement des données stockées sur le serveur (server-side encryption)
- https://docs.nextcloud.com/server/latest/admin_manual/configuration_files/encryption_configuration.html
- <https://nextcloud.com/media/wp135098u/Server-side-Encryption-Whitepaper-WebVersion-072018.pdf>

Server-side encryption ⓘ

Server-side encryption makes it possible to encrypt files which are uploaded to this server. This comes with limitations like a performance penalty, so enable this only if needed.

Enable server-side encryption

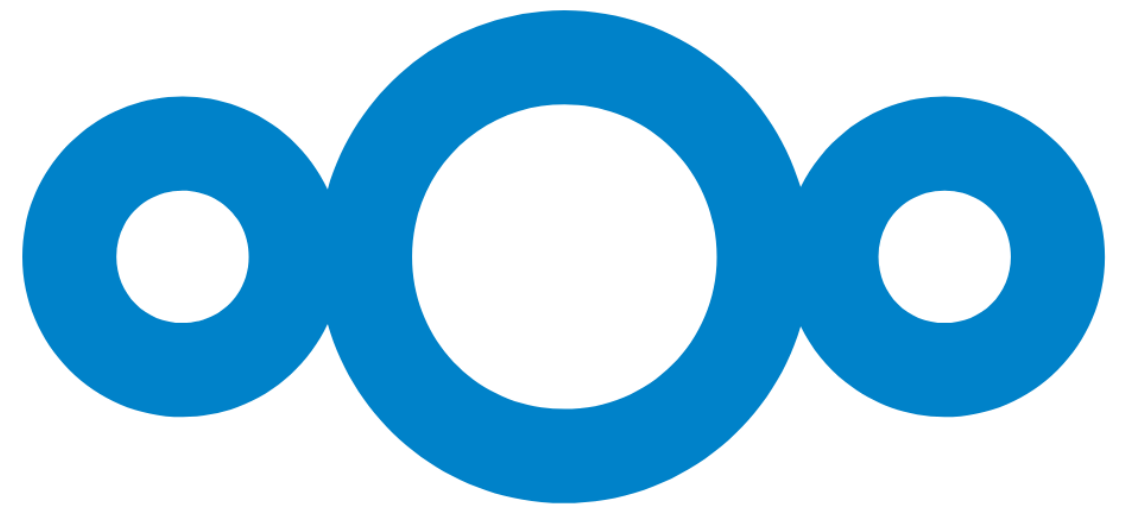
Please read carefully before activating server-side encryption:

- Once encryption is enabled, all files uploaded to the server from that point forward will be encrypted at rest on the server. It will only be possible to disable encryption at a later date if the active encryption module supports that function, and all pre-conditions (e.g. setting a recover key) are met.
- Encryption alone does not guarantee security of the system. Please see documentation for more information about how the encryption app works, and the supported use cases.
- Be aware that encryption always increases the file size.
- It is always good to create regular backups of your data, in case of encryption make sure to backup the encryption keys along with your data.

This is the final warning: Do you really want to enable encryption?

Enable encryption

RGPD



Nextcloud

Hygiène numérique – RGPD / GDPR

<https://nextcloud.com/fr/gdpr/>



Le respect de la vie privée est facilité par le kit de conformité de Nextcloud Enterprise. Nos clients sont guidés tout au long du processus de mise en conformité avec les réglementations relatives à la protection de la vie privée. Télécharger notre document gratuit GDPR Overview pour en savoir plus.



Hygiène numérique – RGPD / GDPR

<https://nextcloud.com/fr/gdpr/>



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Nextcloud GDPR compliance

The self-hosted Nextcloud Enterprise platform simplifies dealing with the complex requirements of privacy regulations, decreasing business risk and costs

[GDPR](#) [CCPA](#) [HIPAA](#) [FERPA](#) [COPPA](#)

Compliance on the self-hosted Nextcloud solution

The GDPR (General Data Protection Regulation) makes organizations liable for any violations of user privacy and deviations from a high data security standard. Legislation like the CCPA (California Consumer Privacy Act of 2018), HIPAA, FERPA, COPPA bring privacy regulation to other countries. The self-hosted [Nextcloud Enterprise](#) platform simplifies compliance, decreasing business risk and costs

 **Compliance options**

[Nextcloud Enterprise](#) is designed with privacy in mind. Supporting standards like GDPR, CCPA, HIPAA, FERPA, COPPA, several ISO certifications and many others is possible with Nextcloud Enterprise.

Compliance features include terms of service review tracking, data export/deletion requests, imprint and privacy links and auditing capabilities.

 **Compliance in practice**

The actual compliance with these regulations depends on the hosting solution used for [Nextcloud Enterprise](#). The hosting party is responsible for certification. To set up Nextcloud Enterprise for compliance with specific regulations, contact our team.

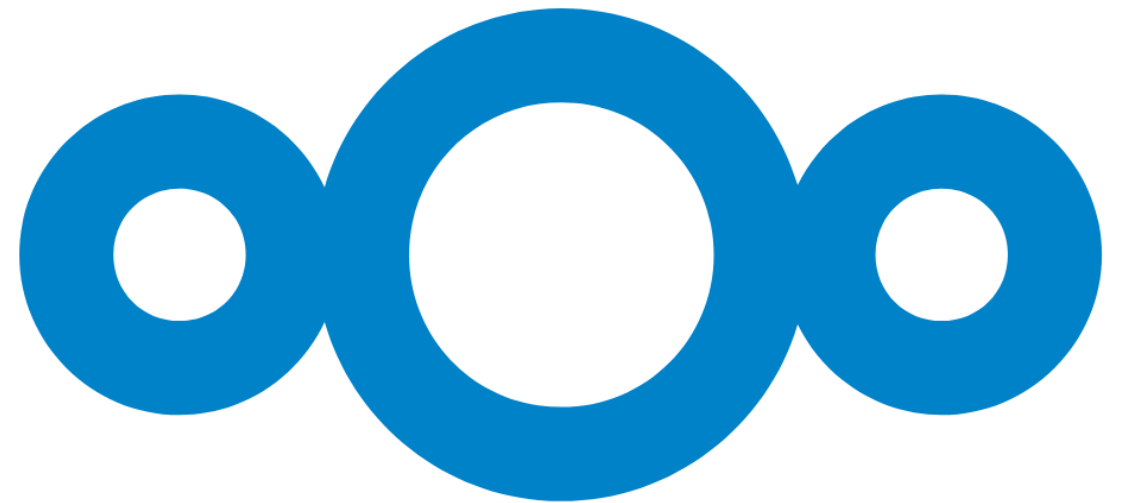
[Contact us](#)



Nextcloud Enterprise Compliance Kit

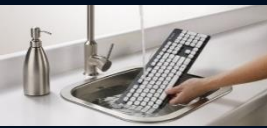


Nextcloud sur l'ordinateur d'un autre



Nextcloud

Nextcloud sur l'ordinateur d'un autre



- Framasoft & le FramaSpace <https://www.frama.space/abc/fr/>

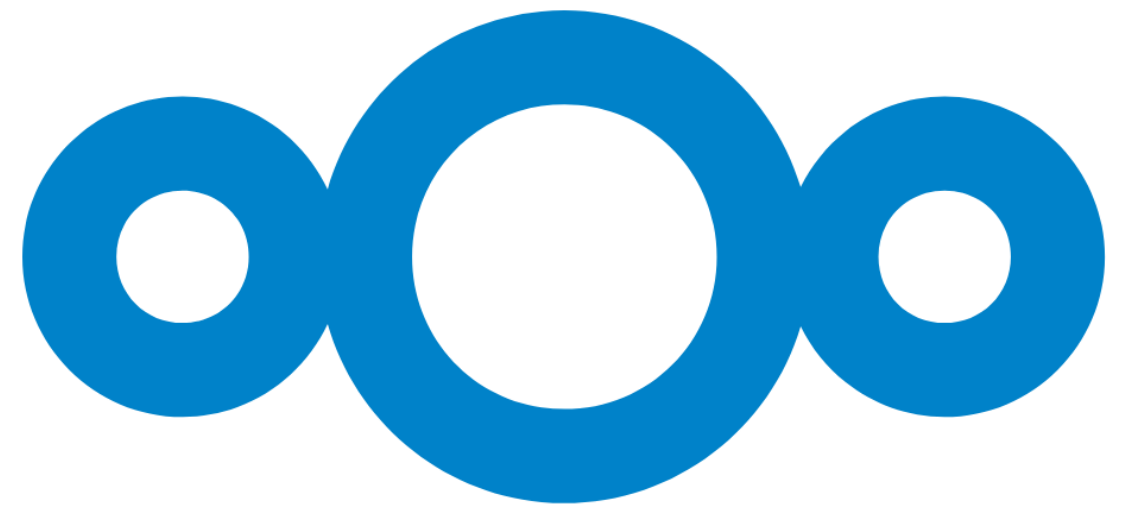


- CHATONS <https://www.chatons.org/>



- GANDI <https://www.gandi.net/fr/simple-hosting/nextcloud>

Nextcloud sur son ordinateur

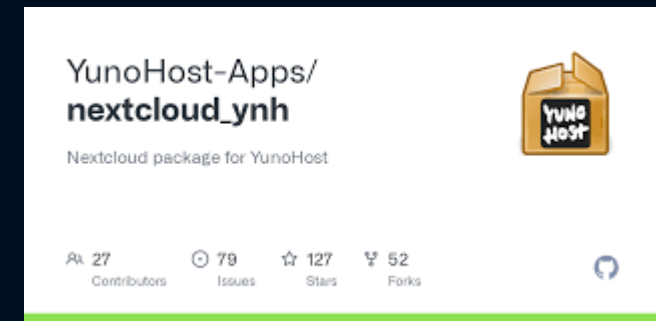


Nextcloud

Nextcloud sur *son* ordinateur



- Sur VPS chez un hébergeur ou sur un ordinateur @home
- From « Scratch » : serveur LAMP, docker...
- Yunohost
 - <https://yunohost.org/#/>
 - https://yunohost.org/fr/app_nextcloud
 - https://github.com/YunoHost-Apps/nextcloud_ynh



Merci de votre attention,
place aux questions



Nextcloud, mes autres usages



- Synchronisés avec le Smartphone
 - Application Notes
 - Agenda & Contacts
 - Suivi du sport (parcours à vélo)
- Gestion projets
 - Kanban /Deck
 - Tasks
- Musique
- Suivi de santé (poids...)