Nextcloud

WHITEPAPER

Nextcloud Hub

Your unified, modular digital workspace



In many organizations, collaboration is fragmented. Files are stored in one place, chats happen in another tools, calendars and emails are managed elsewhere. Teams switch between multiple software, integrations are fragile, and data quickly becomes scattered. This not only slows down workflows but also creates dependency on proprietary platforms.
Nextcloud Hub addresses this by combining all key collaboration tools in one platform: Files, Talk, Groupware, Office, Assistant and Flow. Built on a single foundation, everything works together, with consistent features across the Hub:

- Unified search to find files, chats, emails or calendar entries
- Teams and contacts to organize people once and reuse across the entire Hub
- Guest accounts for easy and secure external collaboration
- Consistent security and compliance features

At the same time, the Nextcloud Hub is modular by design. You can start with the products you need and expand at your own pace. On top of that, Nextcloud is 100% open source, backed by a large community and the largest user base of any self-hosted collaboration solution, you remain fully in control. No vendor lock-in, ever.

Why Nextcloud Hub

- Full data sovereignty and compliance with on-premises deployment
- Enterprise-grade security
- Seamless infrastructure integration
- Unified collaboration and enhanced productivity
- Scalable and future-proof



Nextcloud Hub products.

- **Nextcloud Files**
- **Nextcloud Talk**
- **Nextcloud Groupware**
- **Nextcloud Office**
- **Nextcloud Assistant**
- **Nextcloud Flow**



Nextcloud Talk: Team chat, meetings and webinars



Nextcloud Talk delivers private cloud audio/video conferencing and text chat through browser and mobile interfaces with integrated screen sharing, moderation, and interactivity features. In addition, it provides virtual telephony.

Data sovereignty and privacy

- First GDPR-compliant, private cloud collaboration tool that consolidates all essential functions
- Robust data protection (even metadata), on-premise deployments and hosting with trusted providers
- Deployment in air-gapped environments
- User, admin and advanced level privacy controls
- Role-based access control and user management
- End-to-end encryption
- TLS encryption
- Audit logs and compliance features
- Private conversations
- Full control over your data with an open-source solution
- No vendor lock-in or dependency on proprietary vendors

Advanced collaboration

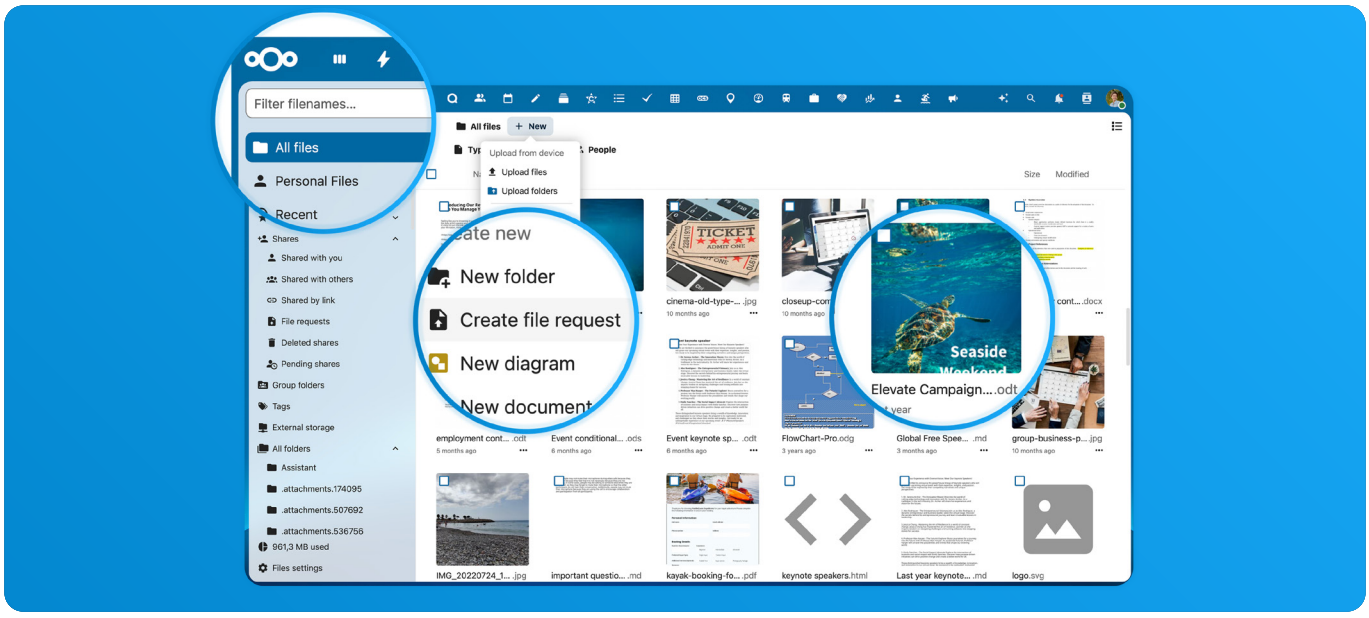
- Streamlined hybrid work by combining communication tools with file sharing and document editing
- AI-driven features designed to simplify daily workflows
- Real-time brainstorming sessions using the Nextcloud Whiteboard
- Federated chats and calls for seamless collaboration between servers
- Polls, reactions and other interactive tools for meetings and classroom sessions

Customization and extensibility

- Customization according to the organizations' specific needs and operational requirements
- Integration into existing systems
- Open source code that can be modified
- Community driven innovation and improvement

Experience secure, private collaboration

Nextcloud Files: File Sync and Share



Secure cloud storage and file sharing software for easy sync, sharing and collaboration on your files. Find files with powerful Unified search, share your thoughts in comments, lock files until you are done with them, and much more.

Easy access anywhere

- A modern and easy-to-use web interface with desktop clients and mobile apps
- Real-time collaboration and instant access to all data from any device
- Support for offline features in mobile apps and virtual files with syncing on the desktop

Deep integration and ultimate security

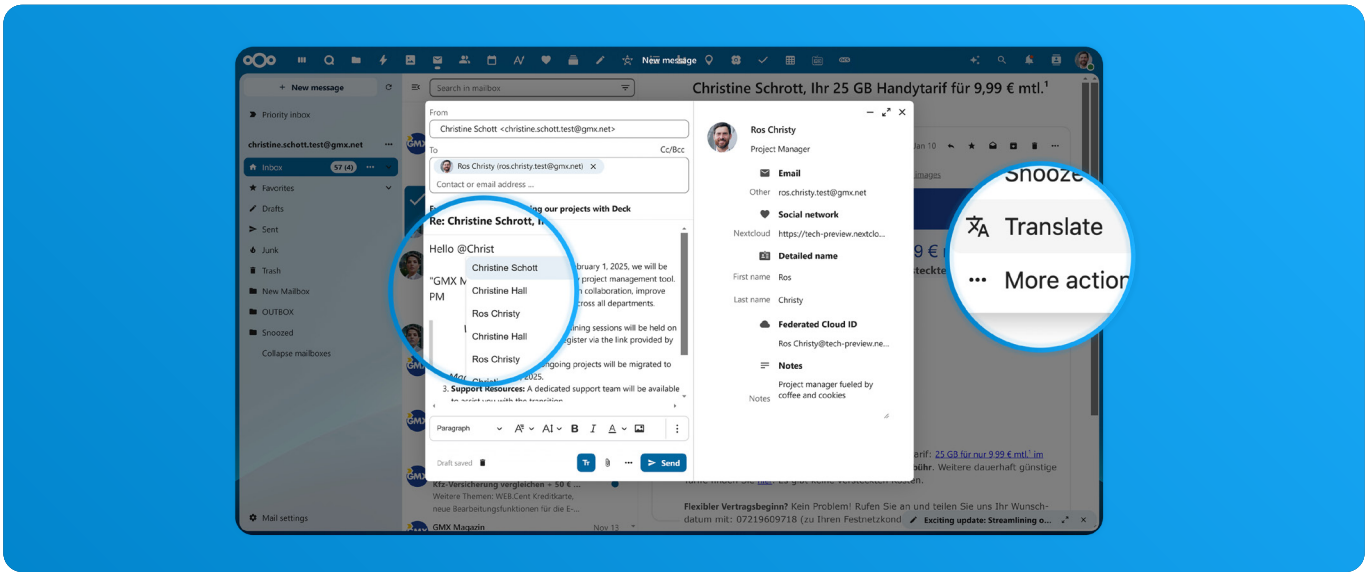
- Access data from FTP, Windows Network Drive, SharePoint, NFS, Object storage, etc.
- Simple configuration and integration of lower costs and decrease risk while leveraging existing IT investments
- Powerful encryption capabilities with server-side encryption as well as End-to-end encryption
- Complemented by strong password policy and other compliance enforcement tools, brute-force protection, ransomware protection and built-in rule-based file access control
- Endpoint security even in browser with end-to-end encryption supported in the web interface

Seamless collaboration

- Secure mobile access to files and folders, enabling work anytime, anywhere
- Powerful integrated document collaboration and communication capabilities across platforms
- Real-time notifications about shares and comments on mobile devices, built-in collaborative editing of Microsoft Office compatible files
- Federated sharing across different servers

Get started with Nextcloud Files

Nextcloud Groupware: Nextcloud Calendar, Nextcloud Contacts and Nextcloud Mail



Nextcloud Groupware offers easy-to-use web mail, calendaring and contacts that helps your team get things done quicker and easier, integrated with the rest of the Nextcloud Hub environment for continuous, smooth workflows.

Easy access anywhere

- An efficient, modern, and easy-to-use web interface connecting distributed, hybrid teams
- Integrates Calendar, Contacts, Mail and other productivity features to help teams get their work done faster and easier
- Enhanced productivity with deep integration in other Nextcloud products: Easy file sharing in mail, planning Nextcloud Talk meetings in Nextcloud Calendar, setting up Teams in Nextcloud Contacts for platform-wide collaboration, and more.

High level security

- An open-source, self-hosted product
- Emails, calendars, and contacts are stored on your own infrastructure, without any third party ever gaining access
- PGP support in Nextcloud Mail
- Brute force protection
- Define rules for data retention
- Cryptographic identity protection
- File access control

Deep integration and AI features

- Native integration into iOS, Android, macOS, Windows, Linux
- Integration with external applications like Outlook and Thunderbird
- Simple deployment, configuration, and integration, lower costs and decreased risk while leveraging your existing IT investments
- Nextcloud Enterprise offers integration with Microsoft environments, with file storage, user directory, Outlook, SharePoint, Windows Desktop, MS Office online server and Teams integration available
- Smart Picker: a cross-application feature enabling you to use AI (and much more) in your daily workflow



Nextcloud Mail

- Easy to use web-based email client which connects to your mail server via IMAP and SMTP
- Unified inbox for multiple accounts
- End-to-end encryption using OpenPGP
- Out-of-office message synchronized across all apps
- Automatic secure sharing of files through Nextcloud Files to replace large attachments



Nextcloud Calendar

- Schedule work and meetings online
- Create and share multiple calendars
- Integrate external calendar resources (any source with an .ics link)
- Automatic suggestions for time slots and free/busy view transparency when inviting people to events
- Integration with Nextcloud Talk for quick meeting planning
- Itinerary details you receive can be imported and easily organized into a travel folder

Nextcloud Contacts

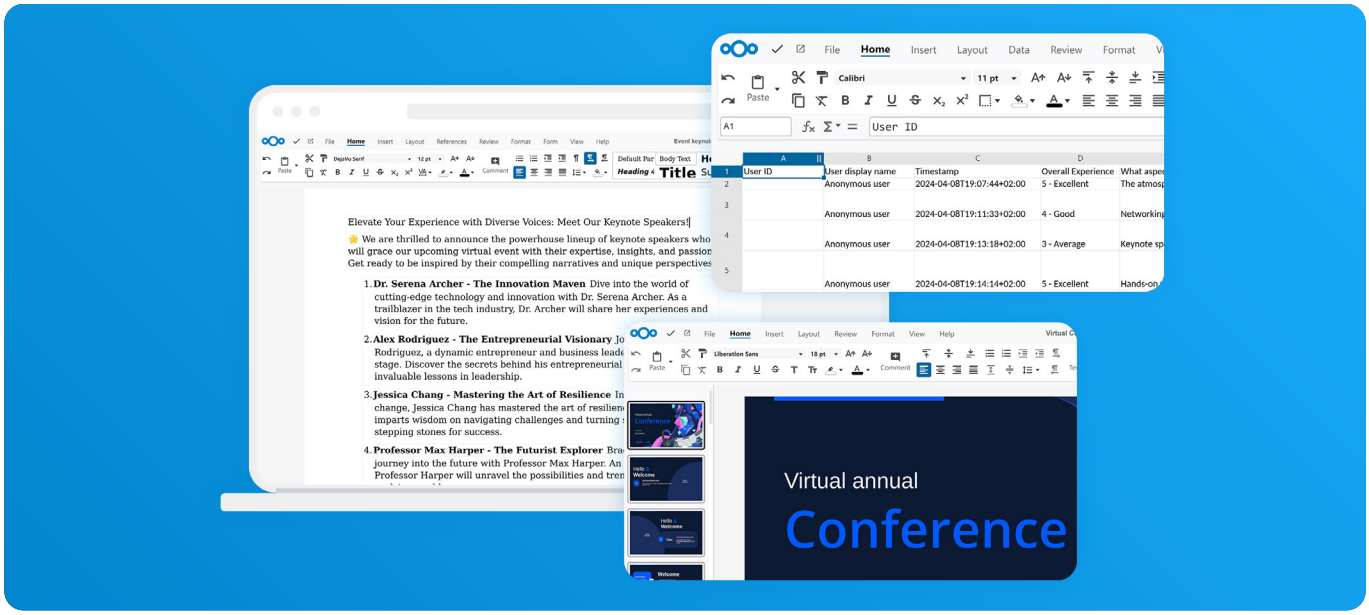
- Track birthdays of your contacts
- Share your address books with your team
- Sync your contacts with phones and other device
- Create custom groups of contacts
- Track shared resources, chats, files and more
- Organize Teams to share files and items across apps

Nextcloud Deck

- Create any number of private or shared Kanban-style task boards
- Drag'n'drop cards, assign them to team members and set due dates
- Copy and manage boards and cards to scale projects
- Use advanced markdown formatting in descriptions, attach media
- Export boards and share them as interactive widgets

Streamline your productivity with Nextcloud Groupware

Nextcloud Office: Bringing self-hosted online office to everybody



Nextcloud Office is a powerful online office suite with collaborative editing, which supports all major document, spreadsheet and presentation file formats and works in all modern browsers.

Document collaboration

- Edit documents, spreadsheets, and presentations
- Integrated chat, comments, and sharing options
- Includes advanced access controls and forever-safe data handling
- Supports real-time cursor tracking and collaborative editing, compatible with Microsoft Word formats

Secure and high-fidelity rendering

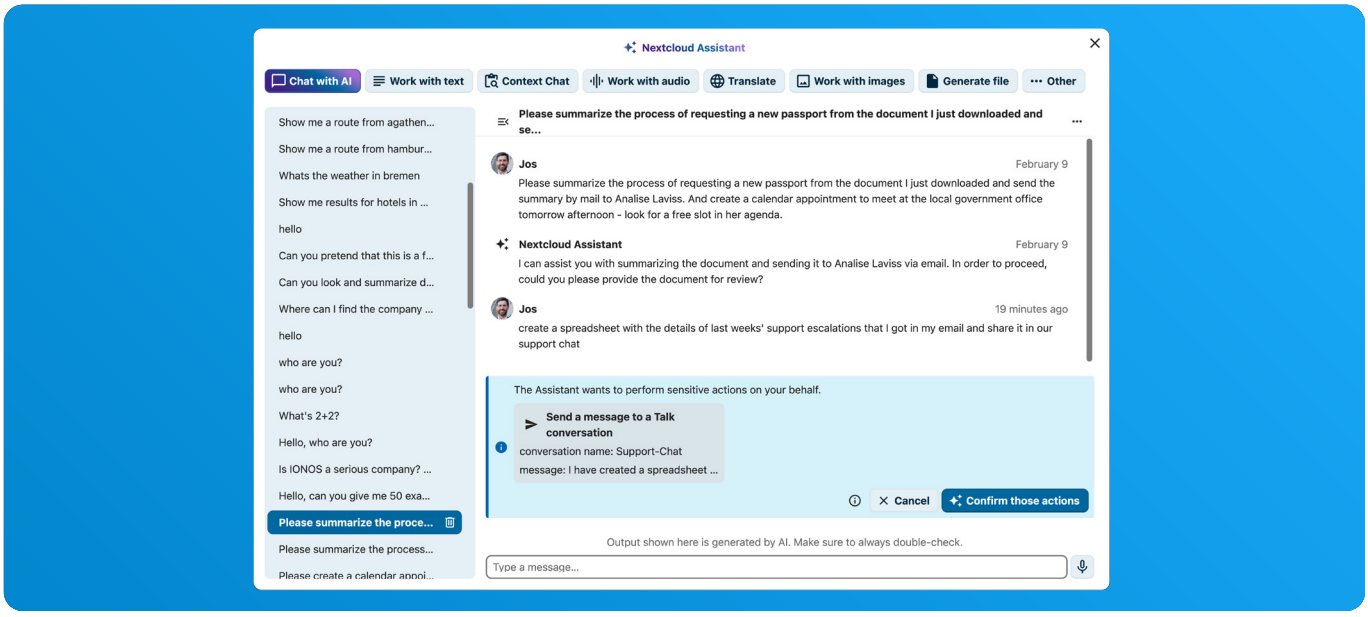
- WYSIWYG rendering ensures documents appear as intended, including print layout
- Documents are rendered server-side with only the final output being sent to the browser
- Raw files never leave your infrastructure, reducing the risk of data leakage
- Safe for sensitive or regulated data environments

Deep integration across Nextcloud Hub

- View, edit, and attach documents directly within Nextcloud apps
- Collaborate on documents during video calls or team meetings
- Cohesive experience across productivity tools and communication apps
- Cross-functional collaboration without leaving the Nextcloud environment

See Nextcloud Office in action

Nextcloud Assistant: AI tools to boost productivity



The first local AI assistant built into a collaboration platform. Hosted where you want and how you want, using AI models you choose, and without data leaks.

Access and collaboration

- Easily accessible via the Assistant button in the top-right corner of Nextcloud Hub
- Integrated with core collaboration tools like Talk, Calendar, and Mail
- Chat with AI in a conversational format and remembers previous interactions
- Use Assistant to perform tasks across apps (e.g., schedule events, send messages)
- Local, secure access with no third-party data leaks

Smart content generation and interaction

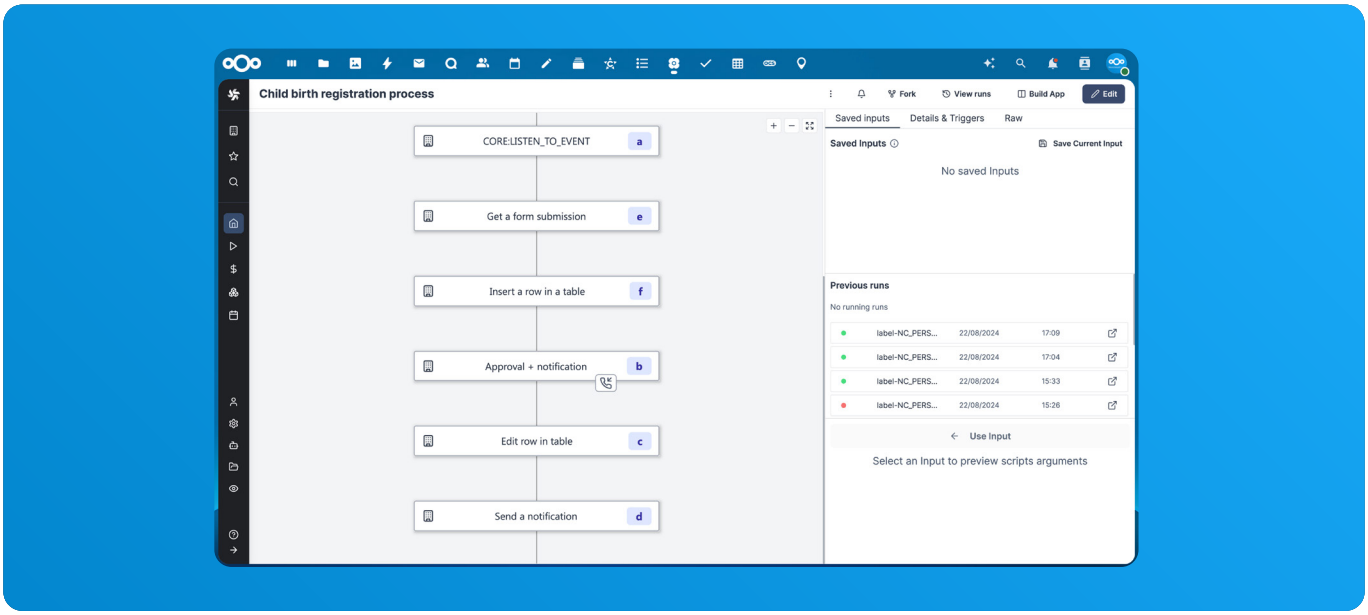
- Generate or rephrase text, headlines, summaries, and more using free prompts
- Change tone, proofread, or rewrite existing content instantly
- Ask questions and get answers based on specific files or folders (Context Chat)
- Write new content using your own data, tone, and style (Context Write)
- Convert spoken audio or uploaded files into text with transcription features

Flexible, private, ethical AI

- Powered by open-source, self-hosted large language models (LLMs)
- Choose from Nextcloud-built, local, or fine-tuned LLMs
- Combine with VectorDB for enhanced context-aware capabilities
- Optional integration with cloud-based LLMs (e.g., OpenAI, Dall-E, Gemini)
- Ensures full data sovereignty with zero data leakage
- Backed by our Ethical AI Rating, promoting privacy-respecting, bias-aware AI usage

Schedule a demo and explore all the features

Nextcloud Flow: Business process automation tools



Nextcloud Flow is a set of intuitive automation components that allow organizations to automate and streamline internal workflows. Through easy low-code and no-code interfaces, it enables users to effortlessly automate routine tasks, ease data entry and manipulation, and reduce manual work. It includes components designed for a variety of business needs and at various scales, from small and medium enterprises to large enterprises.

Nextcloud Flow apps

- Built-in workflow app which enables users to configure basic automated actions
- Open Collaboration Services API developed by Nextcloud to support developers in connecting third-party tools and apps
- Windmill app, designated for powerful business process automation
- Nextcloud Tables for structured data management

No-code automation

- Intuitive, easy-to-use, even for non-technical users
- Easily create and customize workflows without IT support
- Automate repetitive tasks to save time and boost efficiency
- Built-in workflow app triggers actions like sending messages
- Windmill-based integration enables advanced process automation using modular scripts

Native integration

- Privacy and data sovereignty at its core
- Ideal for sectors requiring high levels of security, such as healthcare and public administration

Seamless integration

- Flow integrates naturally with Nextcloud's suite of collaboration tools, including Files and Talk
- All workflows operate within your own infrastructure, ensuring full data control
- Open Collaboration Services API allows connection with third-party tools
- Provides a cohesive experience across the collaboration environment

Privacy-first

- Designed with privacy, security, and data sovereignty at its core
- 100% open-source and private hosted for full control and GDPR compliance
- Blocks or limits access to sensitive documents based on defined security rules
- Supports private hosting and deployment in secure, high-compliance environments

Experience it with a custom proof of concept

Security and compliance

Nextcloud provides a robust compliance framework that empowers organizations to meet regulatory standards such as GDPR. HIPAA, and ISO27001. As self-hosted, open-source platform, it ensures full control over data storage, data access, and data processing. Further support in secure data handling and policy enforcement is assured by the built-in features like audit logs, retention policies, end-to-end encryption, and granular access controls.

Nextcloud also offers a comprehensive Compliance Kit which includes detailed documentation, best practices, and technical guidance for aligning with various regulations. This kit simplifies the compliance journey, helping organizations understand their obligations and how to meet them using Nextcloud.

Additionally, with an Enterprise Subscription, customers gain access to Nextclouds experts who provide hands-on support and custom advice. Whether you're in healthcare, finance, or the public sector, our team can help you configure, optimize, and document your setup to ensure it aligns with legal and industry-specific requirements.

GDPR and privacy legislation compliance

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) brings similar regulation to other countries.

Unlike many consumer grade solutions, Nextcloud was built privacy-first. Data remains on infrastructure you control or with a trusted local provider – ensuring true data sovereignty and protection from extraterritorial access.

Nextcloud and HIPAA

Nextcloud meets all Technical Safeguards requirements, supporting full compliance with the Health Insurance Portability and Accountability Act (HIPAA) of 1996. Nextcloud includes features and practices designed to help organizations protect PHI (Protected Health Information) and align with applicable regulations. For organization seeking certififed compliance and hands-on support, our Enterprise Subscription provides access to tailored compliance guidance, configuration best practices, and dedicated assistance to help you meet regulatory obligations.

Nextcloud

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