

Factsheet

ownCloud Infinite Scale 4.0 is the new and most secure version of the ownCloud real-time Content Collaboration and Data Management Platform providing the tools to integrate, organize, share and govern data and metadata, thus making collaboration easy for users.

Infinite Scale 4.0 supports building Enterprise Clouds either operated within a single Infinite Scale instance or by federating multiple Infinite Scale instances. They can be operated on-premises and/or in private-, public- or hybrid-cloud environments. The following spreadsheet lists all its features.

Category	Component	Comment
Storage	Local (POSIX)	“ocis” driver (“decomposedfs”), the default filesystem for Infinite Scale
	NFS (POSIX)	“ocis” driver (“decomposedfs”), the default filesystem for Infinite Scale
	S3	“s3ng” driver; with decomposedfs for metadata (POSIX)
Users & IDM	Integrated, lightweight user & group management (LibreIDM)	Out-of-the-box integrated user & group management; can be replaced with external LDAP
	OIDC (LibreConnect)	OpenID Connect for user authentication and single sign-on based on an integrated identity provider; can be replaced with external identity providers 4.0 New in version 4.0: Backchannel logout is supported. Please contact ownCloud for other OIDC flows and specific identify provider certifications.
	User roles system	Define user roles based on permissions to create a segregation of duties in administration as well as to distinguish user types
	LDAP integration	Integrate an external LDAP/AD user directory
Content Collaboration	File Management (Upload / Download / Rename / Copy / Move / Delete / etc.)	Ability for users to conduct basic file and folder operations as well as synchronization with clients
	Archiver NEW	When multiple files, folders or whole Spaces are selected in ownCloud Web, those are downloaded in an archive (.zip file). The maximum size of such an archive can be limited in which case the user interface is not offering the option above the limit. 4.0
	Sharing / Access management (permissions on data)	Ability for users to share files and folders with users, groups and via links
	Secret File Drop	Collect uploads via a link. Anyone with the link can only upload, existing content is not revealed.
	Spaces	User-independent folders (data rooms) for projects and teams with multiple owners, multiple members with multiple roles and dedicated behavior. Spaces can have a picture, a subtitle and a description including web links. Each space can have its own quota and storage.
	Deleted Files / Trash bin	Ability for users to restore or download deleted files. Each Space has its own trashbin.

Category	Component	Comment
Content Collaboration	File Versioning	Ability for users to automatically create versions upon file changes and to restore or download them
	Media Viewer	Ability for users to preview images, videos and music files in the browser
	File Locking	Ability for files to prevent concurrent edits, automatically used by web office integrations and webDAV API.
	Archive download for multiple files and folders	Ability for users to download multiple files and folders as archives
	Tags	Add keywords „Tags“ to files (and folders). Tag visibility is identical to file visibility. If you can read or write the file you have the same permissions for tags.
	Tiles and compact view	Display resources in tiles (rather than in list view). Tile size can be adjusted by user in the WebUI. Listing can be compacted.
	Sharing and link expiration	Shares, space memberships and links can expire based on a calendar date
	Simplified sharing links NEW	Upon successful authentication, users accessing a ‚public link‘ will be redirected to the personalized user view, instead of the generic public view. If a viewer component is available, the file will be directly rendered within the application, bypassing the file listing interface. In the event a user accesses the public view, they have the option to switch to their personalized view by logging in through the account menu. 4.0
	Generate Space from selection and Space templates	From any file or folder a Space can be created, this allows Space templates to repeat folder and file patterns for projects or departments.
	Paste to Upload NEW	Besides drag & drop you and using „+“ action to upload files or folders users can now paste single files from their clipboard and move them via the breadcrumb path view in ownCloud Web. 4.0
File Control Bar NEW	When your file is opened in a viewer or editor you can now close this file and control other file controls via the „control bar“ visible inside the viewer user interface. 4.0	
Platform	User settings	Framework for users to define their settings like web UI language
	Notifications	Framework to inform users about events in the platform; Mail notification for the event “Share received”
	File Search	Global search by file name, filter current folder by file name
	Full text and tag search NEW	Search by content (requires Apache Tika) and tags. Improved search selection, location filter, tag filter. Matches are highlighted and presented context within file. 4.0
	File metadata management framework	Store and retrieve arbitrary metadata related to files
	Event system	Framework to enable cross-service communication based on events
	Notifications	Receive notifications in the web ui if <ul style="list-style-type: none"> • „Another User shared a Resource with you“ • „Another User unshared a Resource with you“ • „Another User added you to Space“ • „Another User removed you from Space“ • „Another User disabled Space“ • „Another User deleted Space“ • „Access to Resource expired“
Clients	Web User Interface	The main point of interaction for users. Easy and intuitive - the main starting point for users‘ daily work.
	Desktop Client	Available for Windows, MacOS and Linux. Virtual file system for Windows 10+. Native Apple silicon support
	Android App	Full support for Spaces
	iOS app	Full support for Spaces
	Your frontend/client	Leveraging the full strength of the ownCloud openAPIs
	3rd party WebDAV	If authenticated via OIDC or experimental with basic auth.

Category	Component	Comment
Customization	Web Branding	Customize the ownCloud Web frontend according to your corporate identity - runtime branding is based on config values.
	Self branding	Administrative permission to change the Logo of the instance, which is reflected in all ownCloud Clients
Security	Antivirus (ICAP)	Antivirus and malware checking on Upload via ICAP. Currently, ClamAV is supported and docker container provided to ownCloud Enterprise subscription customers. Further, ICAP integrations will be added on request.
	File Firewall	Allowlist or Denylist for specific file extensions and other policies configurable with Open Policy Agent, programmable with rego.
API & Integration	WebDAV	API for file operations; API endpoints known from ownCloud 10
	OCS	Open Collaboration Services, ownCloud-specific API endpoints known from ownCloud 10
	LibreGraph	Open Source implementation of the MS Graph API, currently used for the management of Spaces.
Administrative permissions in ownCloud Web	User Administration	Add (write permission in LDAP needed) and edit (disable) users and their properties (quota, groups); filter chips for easy selection; batch actions to handle multiple users at the same time.
	Group Administration	Add, rename, list users in group, filter groups
	Space Administration	Permission to list all spaces, space managers and members, rename space, edit subtitle, edit space quota, disable and subsequently delete spaces. No way to read any additional content or add additional members.
Administration & Operations (Backend)	Technical service metrics	Load, memory usage, etc. per oCIS service.
	Logging	Technical log for operations and debugging.
	Auditing	Ability to log all operations conducted by users for compliance and traceability.
	Quota	Default and maximum quota setting
	Read-Only	Selected user and group administration properties can be made „read-only“ which will be reflected in the administrative GUI.
	Trashbin	File retention CronJob with maximum days since entering trashbin
	Custom Roles	Combine a set of permissions within a role to simplify access and enhanced security allows role-based access control (RBAC).
	Disable Resharing	By default resharing is disabled. It can be enabled via config option.
Versions sharing is disabled	Versions are only visible for your own (personal) files, space managers and space members with edit rights.	
Deployment	Single binary	The most simple way to deploy Infinite Scale for testing purposes.
	Systemd	Deploy Infinite Scale as a Systemd service
	Docker	Deploy Infinite Scale using Docker and Docker-Compose
	Helm / Kubernetes	Deploy Infinite Scale in Kubernetes
	Multi-tenancy	ownCloud Infinite Scale can be automated for a full multi-tenancy experience from both an administrative and user experience.
	Webfinger support	With authenticated webfinger one user login can be used for multiple instances without having to enter a specific instance url. This enhances a zero-trust authentication environment across multi-tenancy instances.
Integrations Web Office	Collabora Online	Collabora Online can be integrated via the WOPI server extension; automatic file locking capabilities are available
	ONLYOFFICE	ONLYOFFICE can be integrated via the WOPI server extension; automatic file locking capabilities are available
	Microsoft Office	Microsoft Office Online can be integrated via the wopiserver extension; automatic file locking capabilities are available Microsoft Office 365 as Tech Preview (see below)

Category	Component	Comment
Compliance	Open Standards	Wherever possible we are using and implementing Open Standards.
	Accessibility	All ownCloud Clients are fully WCAG 2.1 AA compliant.
	GDPR	Full compliance to european General Data Protection Regulation.
	GDPR article 20	Special button, accessible to every user, to automatically provide all personal identifiable data (PID) in a file as configured by system administration.
	Privacy Policy and Imprint NEW	As sysadmin you can add config options for for a privacy policy and an imprint for your instance, those can then be selected via the user account menu 4.0
	Other standards	Solution ready to be used in HIPAA, local data protection regulations, local data residency regulations and many other standards covering data protection, secrecy, privacy and allows full digital sovereignty.
	Security by Design	ownCloud Infinite Scale is developed adhering to security by design principles and has undergone rigorous vetting and pentesting. Actively managed bounty program.
	Source Code	Full source code availability and full software bill of materials availability for ownCloud Subscription customers.

Early access to features

Technology Preview*	ownCloud 10 SQL storage driver	Needed for parallel deployments with ownCloud 10 and for migration purposes.
Experimental**	EOS	Collaborative storage with EOS. EOS - Open Storage Documentation — EOS DIOPSIDE documentation (cern.ch)
Experimental**	Deny Access	Disallow listing and reading of a folder inside a space. Must be enabled with config option.
Technology Preview*	Microsoft Office365	Edit in the public cloud, but save in your ownCloud.
Experimental** NEW	Cloud Importer	ownCloud Web has a Cloud Importer for data from other cloud storage services, this is controlled by the user who can copy files and folders from ownCloud 10 (public link), Nextcloud (public link), OneDrive (needs authentication) and Google Drive (needs authentication) 4.0

*Technology Preview = Works, but production usage shall be discussed with ownCloud Support

**Experimental = Preview, may break, individual production usage must be agreed with ownCloud Support

Infinite Scale: Developed at CERN and with the science community

Infinite Scale was developed by ownCloud together with the European Organization for Nuclear Research CERN and the CS3 community (Cloud Storage Sync and Share Services).

Numerous well-known organizations have already decided to implement the software and use it, among other things, as data management platform for the digital workplace – open source, digitally sovereign and legally compliant with the requirements of the GDPR and the European legal area.“




About ownCloud

ownCloud develops and provides open-source software for content collaboration, allowing teams to easily share and work on files seamlessly regardless of device or location. More than 200 million users worldwide already use ownCloud as an alternative to public clouds – and thereby opt for more digital sovereignty, security and data protection.

For further information, please visit owncloud.com and owncloud.com/infinite-scale/ or find [@ownCloud](https://twitter.com/ownCloud) on Twitter.

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