ownCloud: Cloud ou plateforme de stockage et partage ?

Your Data, Your Cloud, Your Way!

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Sync & Share Expectations

- **Teamwork** – work in small groups, often with external employees

- **Efficiency** – The environment must be simple and fast

- **Ease of use** – no active data management necessary

- **Universal access** – data available on all devices.

Consumer-grade File Sync & Share

IN YOUR ENTERPRISE

User A

Firewall

User B

DROPBOX

AT HOME & MOBILE

(Mobile) Devices

- Simple, self-service set-up and use
- Data is stored in the cloud
- Free (initially)

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Key Issue 1: Server

- **Often no dedicated datacenter**

- **Server and capacity ofter rented**

- **Location of the server is unknown**

- **Often, even the provider cannot tell the location**

Key Issue 2: Network

- The provider doesn't have a dedicated backbone

- All capacity is rented externally

- The networks are not transparent, even for the provider

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Key Issue 3: Storage

- Deduplication is important for the provider to save space and cut costs

- All data is indexed by the provider – even on the client

- Existing data are not uploaded twice

- The provider can have access to all client data

Key Issue 4: Security

- **No control on storage policies, access and life cycle.**

- **No audit possibility**

- **No integration to existing security infrastructures (Active Directory)**

- **No way to check source code**

- **Dependance on the service provider**

Key Issue 5: Legal

- US law nearly always applies, independently of the actual storage location

- Liable to scrutiny: FISA, PRISM, TEMPORA, Patriot Act, DCMA etc.

- Secret service might help their local industry

Enterprise-grade File Sync and Share

Consumer-grade usability

+

Enterprise-grade security, governance and extensibility

+

Storage-agnostic flexibility
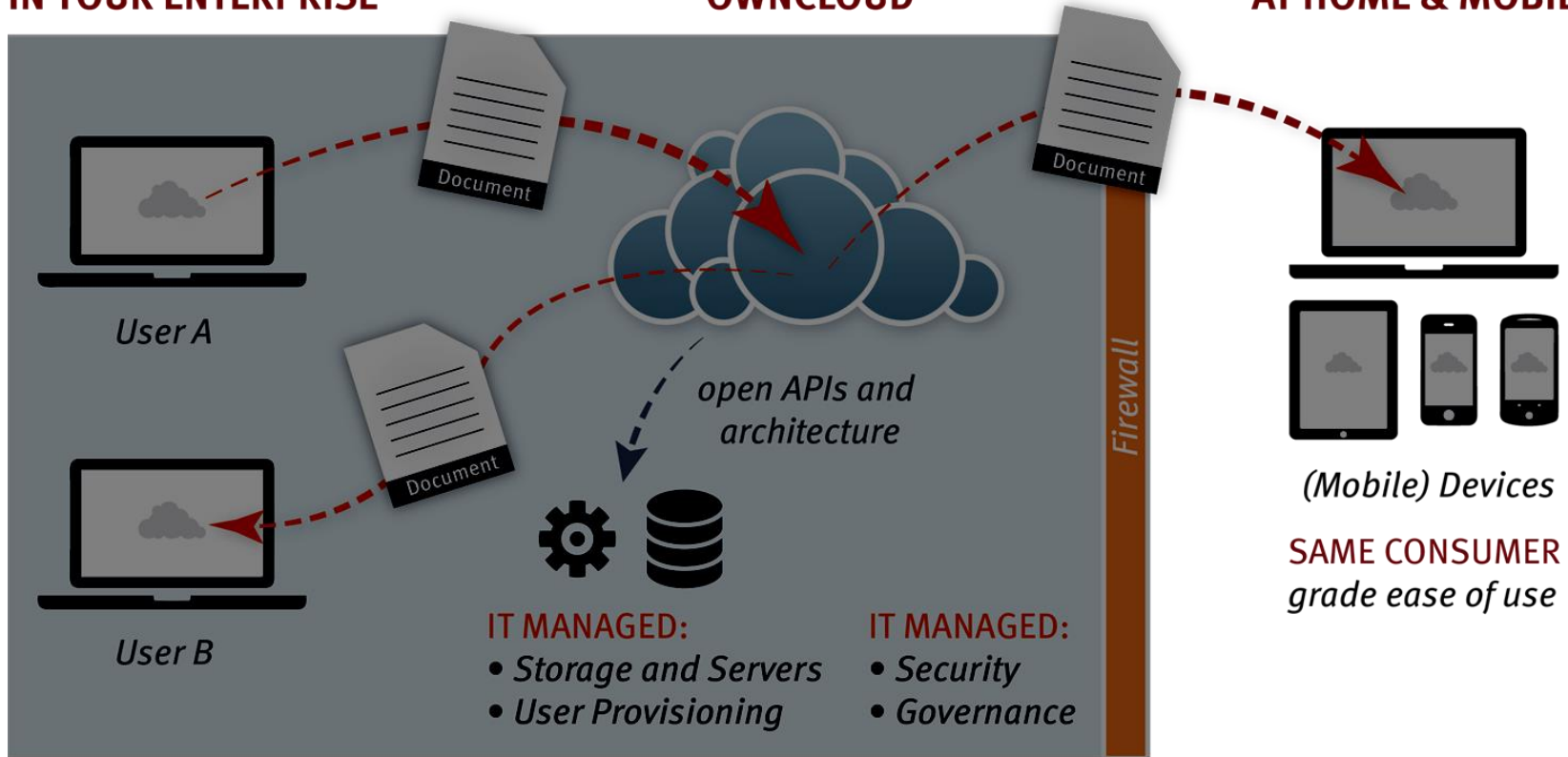
+

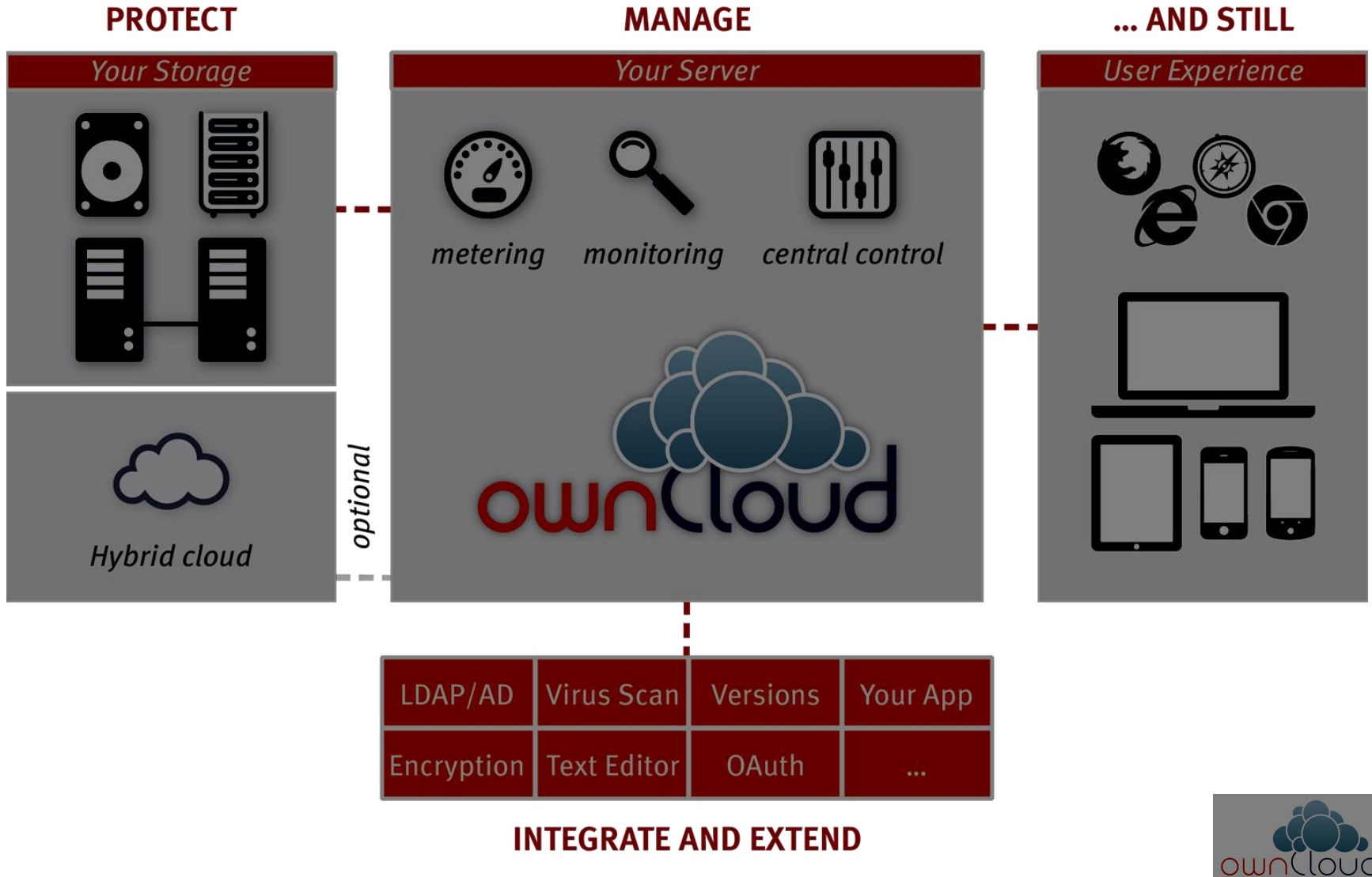Enterprise-grade scaling, availability and admin

= ownCloud

ownCloud – The Solution

ownCloud Solution Overview

PROTECT

MANAGE

... AND STILL

Your Storage

Your Server

User Experience

metering   monitoring   central control

optional

Hybrid cloud

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LDAP/AD	Virus Scan	Versions	Your App
Encryption	Text Editor	OAuth	...

INTEGRATE AND EXTEND

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Typical File Sync & Share Architecture

Access

desktop
client

mobile
client

other
interfaces

Monitoring
Control

xxBox

Storage

? ?
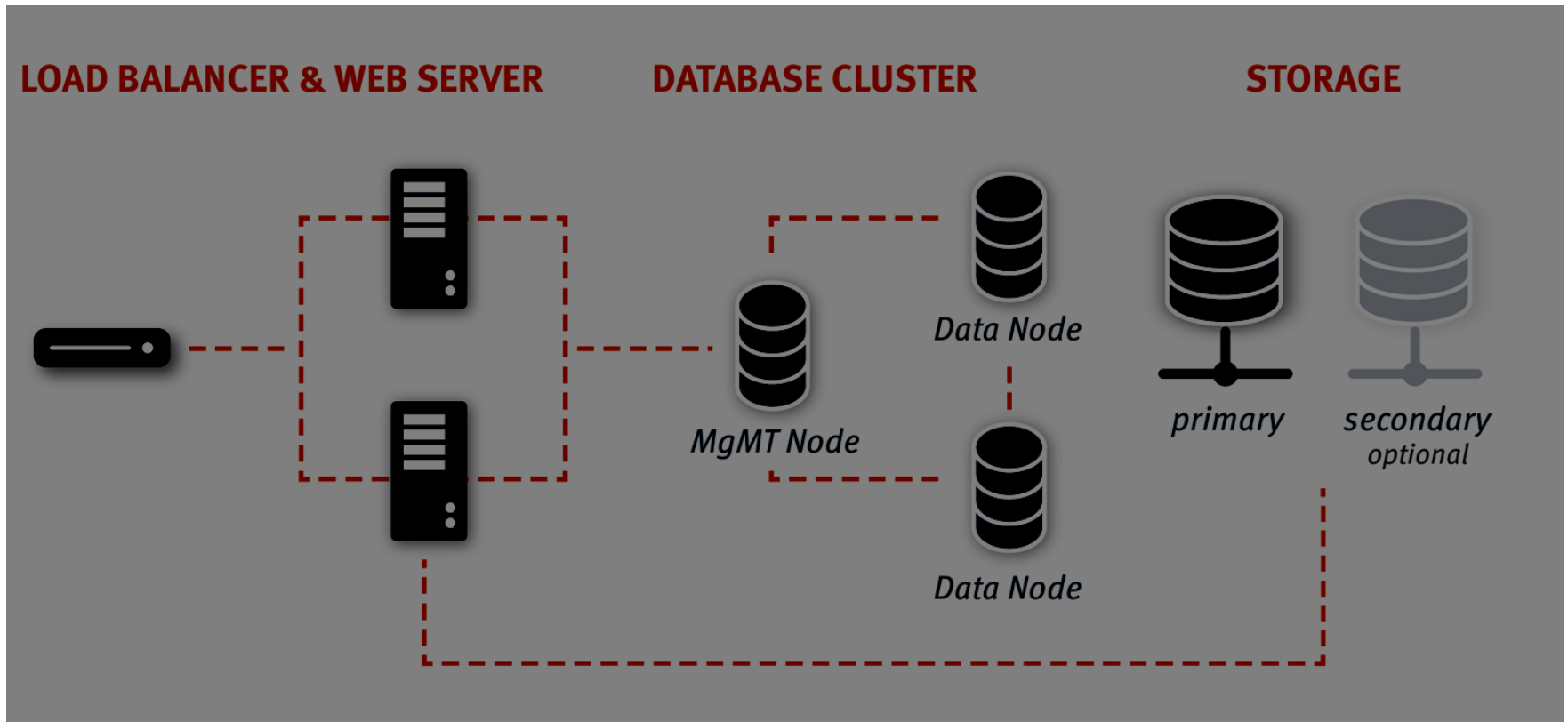
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ownCloud Architecture

Access

desktop client | mobile client | web interface | WebDAV

Plug-ins

OAuth | SAML | Anti-virus

Monitoring Control

ownCloud application servers | ownCloud database

Storage

NAS | SAN | S3 | Dropbox
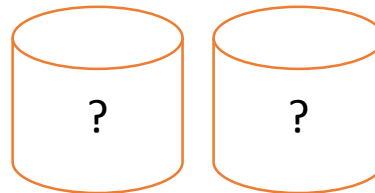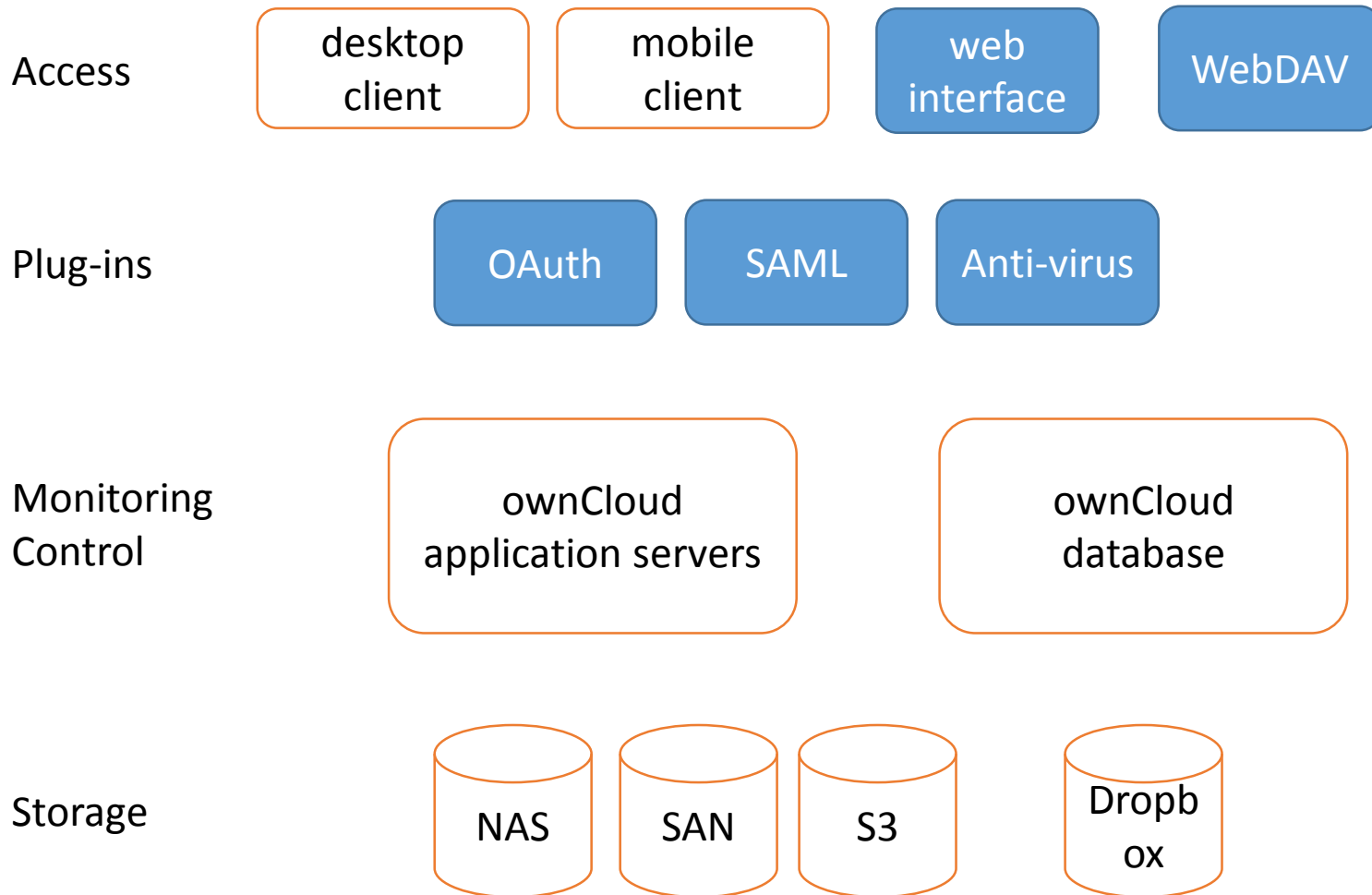
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ownCloud Deployment Example

LOAD BALANCER & WEB SERVER

DATABASE CLUSTER

STORAGE

Data Node

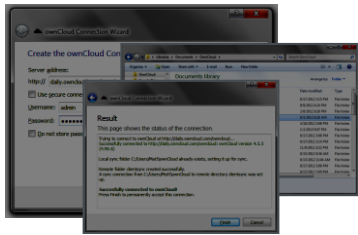MgMT Node

Data Node

primary

secondary
optional

Performance
and scalability
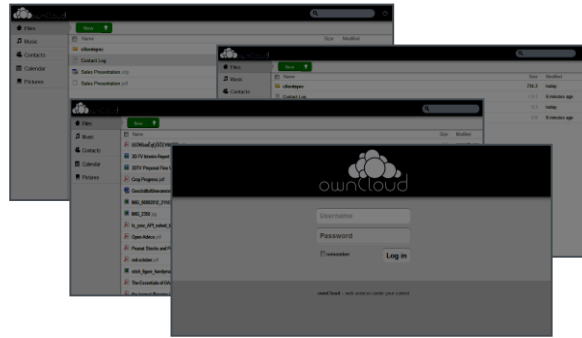
Security
and governance

Economy
and control

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OwnCloud Server and User Applications

Desktop Clients
Windows, Mac and Linux

ownCloud Server
Your Linux and Windows Servers

Mobile Clients
iOS and Android

Consumer-grade
user experience

- Provisioning & management
- Directory integration
- Security & encryption
- IT infrastructure integration
- Monitoring, logging, auditing
- Scaling and high availability
- Ecosystem component integration

Consumer-grade
user experience

The most flexible, secure FSS solution available

OwnCloud Integrates with Your IT Stack

Built-in integrations

Custom integrations

Mobile	iOS, Android
Application	Social, doc management, collaboration, workflow
Web server	Apache, IIS
Security	SSL, TLS, AES-256 encryption
Authentication	LDAP, Active Directory, SAML
Database	MS SQL Server, Oracle, MySQL, PostgreSQL
Storage	Windows Home, Jive, S3, SWIFT, WebDav, CIFS
Sysops	Log managers, monitors
Platform	Linux, Windows

Community and Enterprise Editions

Community Edition

Open source project (AGPL)

Distributed in openSUSE, Ubuntu, Debian, Fedora

Extremely active community
- ▶ 6.5M+ downloads
- ▶ 200+ contributors

100+ 3rd party plug-ins

Community support

www.owncloud.org

Enterprise Edition

Certified Community Edition

+

Enterprise Features & Tools

+

Enterprise Support SLAs

+

Commercial License

+

Engineering Access

www.owncloud.com

ownCloud Feature Comparison

	Open Source: AGPL, GPL (must open source customizations)	ownCloud Commercial License
License	Open Source: AGPL, GPL (must open source customizations)	ownCloud Commercial License
Certified by ownCloud		✔
Support	Community Forums	5x12 or 7x24 global live phone, email support
Unlimited Incidents		✔
Response Time	No SLA	Strong SLA
Onboarding & Migration Assistance		✔
Mobile Clients	Standard app for a fee	Unlimited Free Clients; May be Branded
Maintenance & Upgrades		✔
Feature Requests		✔
Enterprise Features		
File Firewall		✔
SAML/Shibboleth Authentication		✔
Home Directory Mounts		✔
Logging Module (Auditing & Sharing)		✔
Jive Integration		✔
Certified ownCloud Plug-ins		✔
MS SQL Server & Oracle DB Support		✔
Enterprise Documentation		✔
Provisioning API		✔

Feature example: File firewall

- A document access rules engine – if the rules are met, the file operation is allowed

- Allows to control access from the server side

Example use case:

- Multinational company, work for US govt and other customers; No US govt files can be synced to computers outside the US
- No sales files can be synced to mobile devices
- No files can be accessed outside 9 to 5 ET

Use case: Financial data management

Financial institute in the US

- Business case: data must be labelled depending on security level and access must be given accordingly.

➢ Company developed a layer to add security metadata (confidential/critical/etc)

➢ Company configured the file firewall so that confidential data can only be downloaded on premises

Use case: Single sign-on

Universities in the Netherlands

• Business case: students can use ownCloud installations on another campus.

➢ Universities used SAML authentication

➢ A student can now use his home university access credentials even on another campus

Who is ownCloud?

ownCloud.org
The Community-Projekt

- Open Source project

- Founded by Frank Karlitschek in Germany in January 2010

- around 150 active contributors

- 2 million downloads

- Very active developer community on github

ownCloud.com
Die Firma

- Gegründet 2011

- HQ in Boston, USA

- OwnCloud GmbH in Nürnberg

- Founders:

  - Markus Rex, CEO

  - Frank Karlitschek, CTO

  - Holger Dyroff, VP Sales & Marketing

  - ownCloud Enterprise Edition, Modules, Consulting and Support

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Thank you.