# Universal File Access with Scale-Out Storage

Secure and Scalable Universal File Access

Your company has data. Lots of it. And your employees want to share it with each other and across a spectrum of mobile devices. Your ability to ensure security and regulatory compliance becomes increasingly difficult with each new user, file and system. What if you could provide the ease and convenience that employees demand, with the compliance control required by IT, while scaling capacity at a fraction of the costs of traditional storage?

It's a tall order, but one which Red Hat and ownCloud can deliver. ownCloud works with Red Hat to provide a single interface to your unstructured data—all in a single, streamlined solution with proven performance, efficiency and control and an approach to storage which easily scales as need demands.

In this paper, you will learn how ownCloud and Red Hat provide:

- An infrastructure to support collaboration and file access needs of users wherever it is stored - without having to migrate or duplicate data

- Open, software-defined storage that is density-optimized using standard servers and is easily scalable

- Control of data and the access to it; configured to meet your compliance and security demands
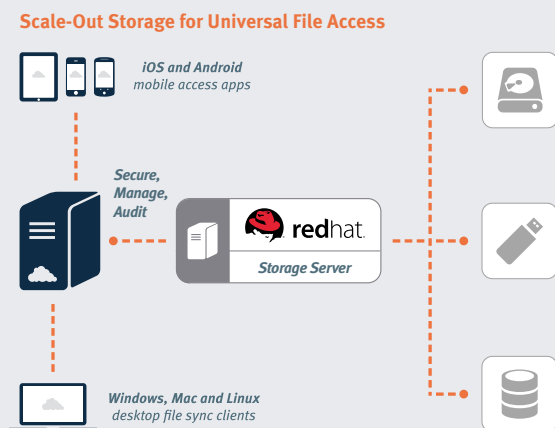
Enterprise File Sync & Share, Software Defined Storage

With ownCloud and Red Hat Storage Server, you regain control of your sensitive data while easily scaling to meet growing demand and expanding storage requirements. Deployed globally as a single or multi-use instance, IT can manage, configure and scale the solution centrally — from PoC to full production. Together, ownCloud and Red Hat allow you to leverage existing infrastructure (LDAP/AD, SAML, Database, NFS, CIFS) while scaling with these benefits:

- **Access** your data in your private cloud, whether the data lives in multiple applications, on-premise or in cloud storage, or is unstructured within the existing architecture. ownCloud fits into your existing infrastructure and security systems, managed to company policies, from user directories, governance, security, monitoring, storage and back-up, to intrusion detection, monitoring, and automated provisioning tools

- **Control** access to your data using tools like File Firewall which can limit server connection based on geography, group, time, file type/size, device and more. Meet Access Control Lists (ACLs) defined in SharePoint, Active Directory and more. Extend that control down to the storage level where you can define just how your storage is used. Users gain anytime, anywhere access while IT maintains the control of data

- **Manage** sensitive data using software defined storage, with the complete application stack running on your servers, safely inside your data center, controlled by administrators you trust, managed to your policies. Software defined storage is density optimized using standard servers and is easily scalable as it replicates within and across data centers for global access, redundancy, and failover all while still providing your end users the easy access they have come to expect from file sync and share solutions –via web, laptop or mobile device.

The combined solution of ownCloud Enterprise Edition and Red Hat Storage Server provides a logical storage gate- way. The physical storage managed by Red Hat Storage Server delivers linear scalability of performance, capacity, and availability, providing you what you need when you need it – and enabling you to adjust as you grow. The

Scale-Out Storage for Universal File Access

iOS and Android mobile access apps

Secure, Manage, Audit

redhat.
Storage Server

Windows, Mac and Linux desktop file sync clients

ownCloud server exposes files stored in Red Hat Storage Server (or other applications, storage, or unstructured data) through a single interface similar to consumer cloud services. As your needs scale, the servers scale with you. Together, the ownCloud and Red Hat Storage Server solution puts your storage and files back in your control and managed to your security, compliance and governance requirements.

ownCloud for Access, Control & Management

Only ownCloud provides Universal File Access through a common file access layer whether the data lives in multiple applications, on-premise or cloud storage, or is unstructured in existing architecture:

• Companies host ownCloud in their own data center (or wherever they choose), on their physical, virtual or private cloud server(s)

• Administrators control and manage ownCloud and ownCloud integrated technology, enable apps, manage users and groups, monitor logs and system health, meter usage and quo- tas and set file permissions, in a single interface

• ownCloud integrates into existing tools and becomes a part of your existing infrastructure; ownCloud can even be branded to look and feel like an extension of existing tools

• ownCloud provisioning happens automatically – as users are added via internal or external authen- tication services or via an external API call from existing automation tools

Because ownCloud is open source and open by nature, plug-in apps exist or may be built to extend ownCloud out of the box, enabling Active Directory/LDAP/open- LDAP integration, file versioning, file sharing, external filesys- tem mounts and much more.

Content stored in Red Hat Storage Ser- ver is accessed via ownCloud through a web browser, desktop syncing apps (Windows, Mac OS X , Linux) and mobile apps (Android, iOS) allowing users to enjoy the file sync and share experience they've come to expect.

Red Hat for Scale-Out Storage

Red Hat Storage Server is an open, soft- ware-defined, scale-out storage platform that lets you easily mana- ge unstructured data for physical, virtual, and cloud environments. Benefits include:

• **Lower costs:** Manage exponential data growth at a fraction of the cost of other storage solutions.

• **Streamline Information Access:** Whether deployed on-premise, in a public cloud, or in a hybrid cloud, Red Hat Storage Server eases access information and brings freedom of choice and the benefits of an innovative community to your enterprise.

• **Flexible Deployment Options:** Instantly add more capacity, performance, or availability for data access and security by deploying the same storage solu- tion across on-premise and cloud environ- ments, depending on what makes sense for your business.

By bringing together the foremost open source techno- logies, like GlusterFS and Red Hat Enterprise Linux®, Red Hat Storage Server gives you cost-effective and highly available storage without sacrificing scale or performance.

To learn more about how Red Hat Storage Server and ownCloud work together, visit us at

🌐 **www.owncloud.com/redhat**

About Red Hat

Red Hat® is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux®, and midd- leware technologies.

About ownCloud

Organizations that must share confidential data internally and externally rely on ownCloud's onpremises enterprise Universal File Access platform. Only ownCloud gives IT the visibility and control required to manage sensitive data, preserve business processes, and integrate with existing compliant infrastructures while offering users the modern collaboration experience they demand. This is made possible through ownCloud's open, modular architecture, extreme extensibility and unique federated cloud sharing capabilities. For more information, visit:

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