Aim: Installation and configuration of storage virtualization using own cloud- configure the user management. Configure the security groups wrt user management.

Objective: To understand how to install, configure, create, manage user and group of user accounts.

Theory: Storage as a service (SaaS) is a business model in which a company leases or rents its storage infrastructure to another company or individuals to store data. Small companies and individuals often find this to be a convenient methodology for managing backups, and providing cost savings in personnel, hardware and physical space.

A company providing SaaS may be called a storage service provider (SSP). Storage as a service can also be referred to as hosted storage.

OwnCloud: It is an open-source software, first developed in 2010, that allows you to run a personal cloud file storage service. It has features that are comparable to other cloud storage services such as Dropbox.

The OwnCloud server software can be installed free of charge on Linux, and the client software can be installed on computers running Windows, OS X, or Linux. Mobile apps are also available for Android and iOS.

Features:

- Encryption & security
- Virtual data rooms with secure view
- Ransomware protection
- Collaborative editing of office documents
- Document classification
- File firewall enterprise

User management:

On the User management page of your ownCloud Web UI you can:

- Create new users.
- View all of your users in a single scrolling window.
- Filter users by group.
- See what groups they belong to.
- Edit their full names and passwords.
- See their data storage locations.
- View and set quotas.
- Create and edit their email addresses.

The user administration displays all users in a table format. The group filters on the left sidebar lets you quickly filter users by their group memberships and create new groups

Click the gear icon on the lower left sidebar to set a default storage quota, and to display additional fields: Show storage location, Show last log in, Show user backend, Send email to new users, and Show email address.

User accounts have the following properties:

• Login Name (Username)

The unique ID of an ownCloud user, and it cannot be changed.

• Full Name

The user's display name that appears on file shares, the ownCloud Web interface, and emails. Admins and users may change the Full Name anytime. If the Full Name is not set it defaults to the login name.

Password

The admin sets the new user's first password. Both the user and the admin can change the user's password at anytime.

Groups

You may create groups, and assign group memberships to users. By default new users are not assigned to any groups.

Group Admin

Group admins are granted administrative privileges on specific groups, and can add and remove users from their groups.

Quota

The maximum disk space assigned to each user. Any user that exceeds the quota cannot upload or sync data. You have the option to include external storage in user quotas.

Granting Administrator Privileges to a User

ownCloud has two types of administrators: Super Administrators and Group Administrators. Group administrators have the rights to create, edit and delete users in their assigned groups. Group administrators cannot access system settings, or add or modify users in the groups that they are not Group Administrators for. Use the dropdown menus in the Group Admin column to assign group admin privileges.

Managing Groups

You can assign new users to groups when you create them, and create new groups when you create new users. You may also use the Add Group button at the top of the left pane to create new groups. New group members will immediately have access to file shares that belong to their new groups.

Setting Storage Quotas

Click the gear on the lower left pane to set a default storage quota. This is automatically applied to new users. You may assign a different quota to any user by selecting from the Quota dropdown, selecting either a preset value or entering a custom value. When you create custom

quotas, use the normal abbreviations for your storage values such as 500 MB, 5 GB, 5 TB, and so on.

Deleting users

Deleting a user is easy: hover your cursor over their name on the Users page until a trashcan icon appears at the far right. Click the trashcan, and they're gone. You'll see an undo button at the top of the page, which remains until you refresh the page. When the undo button is gone you cannot recover the deleted user.

Conclusion: Thus we have successfuly configured storage virtualization using ownCloud.

















