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Semester: 5th		Academic Year: 2022-23
Subject Name & Code: Cloud Computing and Analytics		
Title of Assignment: Assignment- 4 Study & Implementation of identity management.		
Date of Performance: 01/12/2022		Date of Submission:08/12/2022

**Aim:** Study & Implementation of identity management.

**Problem Statement:** Study & Implementation of identity management.

### Background Information:

**Identity management** (IdM), also known as identity and access management (IAM) ensures that authorized people – and only authorized people – have access to the technology resources they need to perform their job functions. It includes policies and technologies that encompass an organization-wide process to properly identify, authenticate, and authorize people, groups of people, or software applications through attributes including user access rights and restrictions based on their identities.

An identity management system prevents unauthorized access to systems and resources, helps prevent exfiltration of enterprise or protected data, and raises alerts and alarms when access attempts are made by unauthorized personnel or programs, whether from inside or outside the enterprise perimeter.

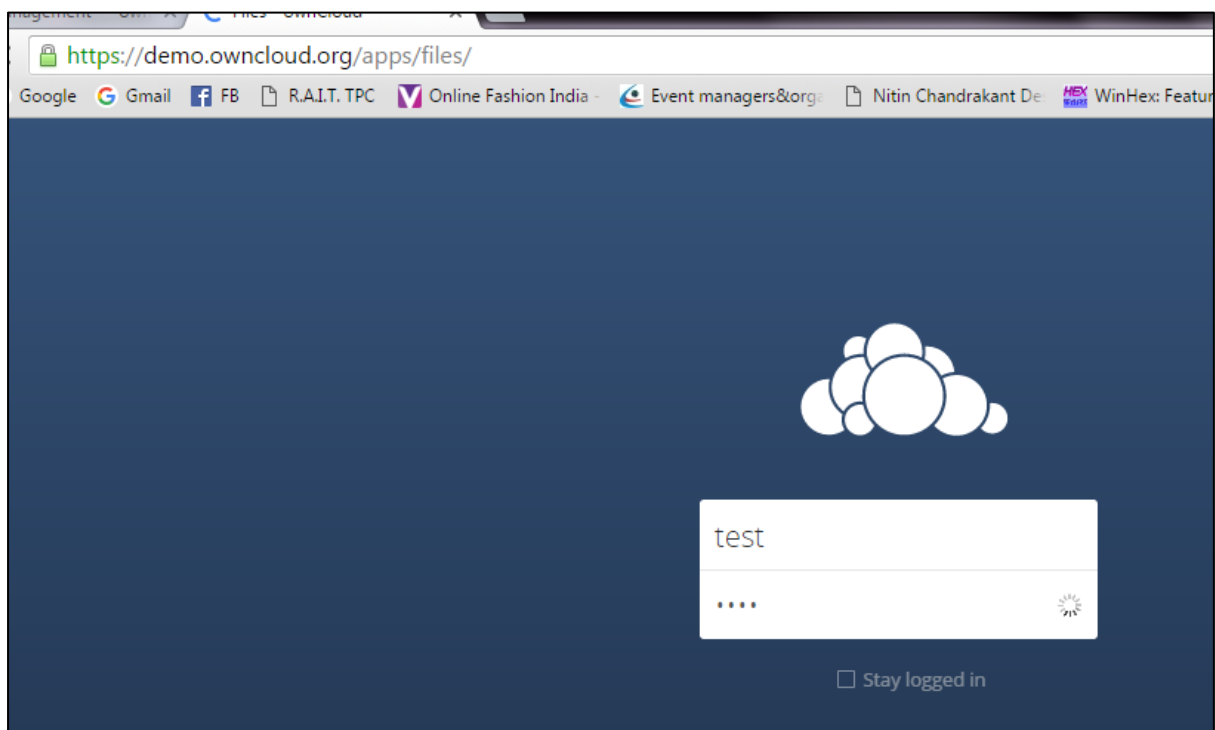
Identity management solutions not only protect software and data access, they also protect the hardware resources in an enterprise, such as servers, networks, and storage devices from unauthorized access which could lead to a ransomware attack. Identity management has gained importance over the past decade due to the growing number of global regulatory, compliance, and anti-governmental mandates that seek to protect sensitive data from exposure of any kind.

IdM and IAM systems generally are part of IT security and IT Data management within the enterprise, and identity and access management tools are widely available for the broad range of devices that users rely on to perform business functions from phones and tablets to desktop computers running Windows, Linux, iOS or Android.

IdM and IAM are terms often used interchangeably, however, identity management is more focused on user identity (or username), and the roles, permissions, and groups to that the user belongs to. IdM also focuses on protecting identities through a variety of technologies such as passwords, biometrics, multi-factor authentication, and other digital identities. This is usually achieved by the adoption of identity management software applications and platforms.

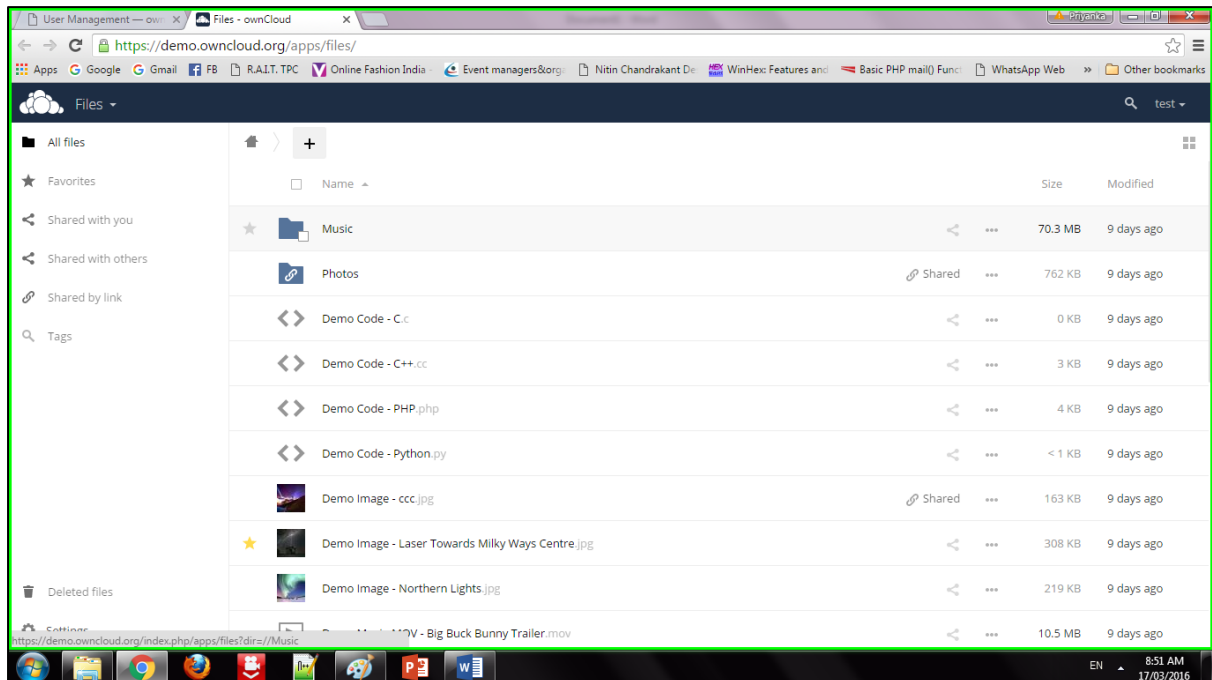
## Procedure:

Step 1: OwnCloud is an open-source file sync and shares software for everyone from individuals operating the free ownCloud Server edition, to large enterprises and service providers operating the ownCloud Enterprise Subscription. ownCloud provides a safe, secure, and compliant file synchronization and sharing solution on servers that you control. You can share one or more files and folders on your computer, and synchronize them with your ownCloud server.




Step 2: By default, the ownCloud Web interface opens to your Files page. You can add, remove, and share files, and make changes based on the access privileges set by you (if you are administering the server) or by your server administrator. You can access your ownCloud files with the ownCloud web interface and create, preview, edit, delete, share, and re-share files. Your own Cloud administrator has the option to disable these

features, so if any of them are missing on your system ask your server administrator.



**Step 3: Apps Selection Menu:** Located in the upper left corner, click the arrow to open a dropdown menu to navigate to your various available apps. **Apps Information field:** Located in the left sidebar, this provides filters and tasks associated with your selected app. **Application View:** The main central field in the ownCloud user interface. This field displays the contents or user features of your selected app.

Users						
+ Add Group		Username	Password	Groups	Create	
Everyone	1	Username	Full Name	Password	Groups	Group Admin for
Admins	1	test	test	*****	admin	no group
						Quota
						1 GB

 Users ▾

BE B Div

+

be\_b

.....

Groups ▾

Create

P

set new password

.....

Full Name

be\_b

Step 4: Share the file or folder with a group or other users, and create public shares with hyperlinks. You can also see whom you have shared with already, and revoke shares by clicking the trash can icon. If username auto-completion is enabled, when you start typing the user or group name ownCloud will automatically complete it for you. If your administrator has enabled email notifications, you can send an email notification of the new share from the sharing screen.

## Sharing

☒ Allow apps to use the Share API

☒ Allow users to share via link

☒ Enforce password protection

☒ Allow public uploads

☒ Set default expiration date

Expire after  days ☒ Enforce expiration date

☒ Allow resharing

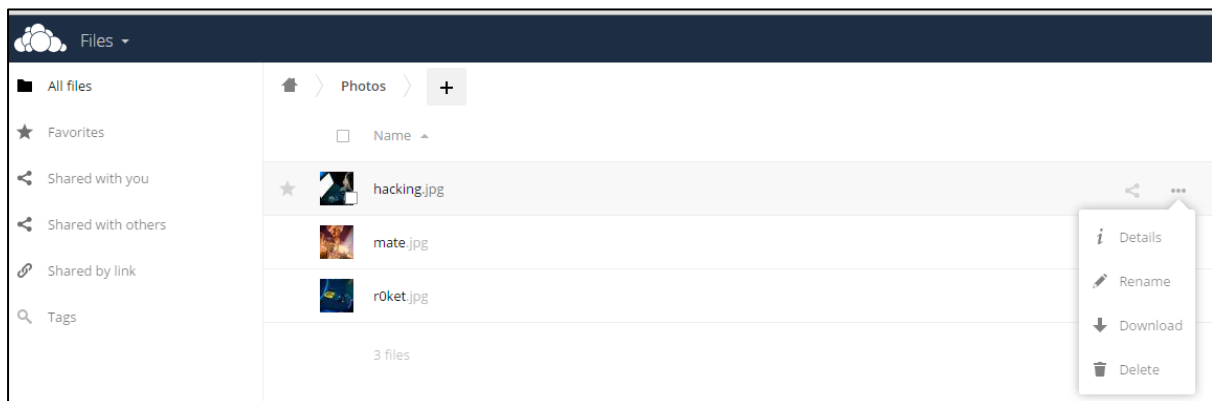
☒ Restrict users to only share with users in their groups

☒ Allow users to send mail notification for shared files

☒ Exclude groups from sharing

**Groups** ▼

These groups will still be able to receive shares, but not to initiate them.





hacking.jpg

★ 228 KB, 9 days ago

Collaborative tags

Activities Comments **Sharing** Versions

Share with users or groups ...

☒ Share link

<https://demo.owncloud.org/s/T0GPHINNpC5vIVp>

☐ Password protect

☐ Set expiration date

Activities Comments **Sharing**

Share with users or groups ...

admin (group) ☒ can share ☒ can edit ▼

admin

Step 5: Five Share permissions are:

Can share; allows the users you share with to re-share.


Can edit; allows the users you share with to edit your shared files, and to collaborate using the Documents app.

Create; allows the users you share with to create new files and add them to the share.

Change; allows uploading a new version of a shared file and replacing it.

Delete; allows the users you share with to delete shared files.

+	Username	Password	Groups	Create		
2	Username	Full Name	Password	Groups	Group Admin for	Quota
4	my_circle	my_circle	*****	users, be_b div	be_b div	5 GB

 Music Shared with admin ... a minute ago

GitHub Repo Link: [PrathamRaka/Cloud-Computing-Analysis](https://github.com/PrathamRaka/Cloud-Computing-Analysis)  
([github.com](https://github.com))

**Conclusion:** We have studied how to use ownCloud for ensuring the identity management of the users. We can create multiple groups and provide privileges to view or modify data as per defined permissions. It also enables a simplified look and feels to be used by anyone.