# EXPERIMENT 8 thin: implementation and analysis of cloud security using Eucalyptus / Croogle Cloud (AWS / AZWe) Owndered Cloud security consists of a set of policies, continus, producer and technologies that wark tigether to protect-closed-based systems, data and infrastructure From authenticating access to Filtering traffic, cloud security can be configured to exact needs of the business Because of this, miles can be configured and managed in one place, administration overheads and reduced and IT teams empowered to focus on other areas of the business The way cloud security is delivered will depend on the individual cloud provide as cloud security solutions in place. However, it should be joint responsibility between owner and provider Benefits of cloud security i) centralised security: cloud based business networks consist of minyous devices and endpoints.

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Managing these entitles centrally enhances traffic analysis and filtering, streamlines monitoring of network events and results in fewer software and policy updates.

dedicated hardware. It also reduces administrative overheads.

It delivers proactive security feature that Offers protection 24×7

3) Reduced Administration: There is less manual security configurations and almost constant security updates.

Security administrative takes place in one area.

application within cloud no matter where they are or what device they are using.

security is owncloud.

\* Admin set user / File (evel permission:

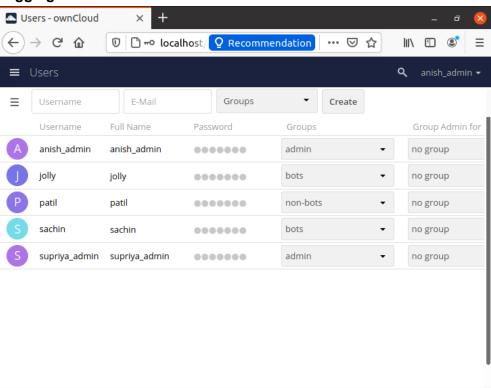
: (an be defined when and where files are

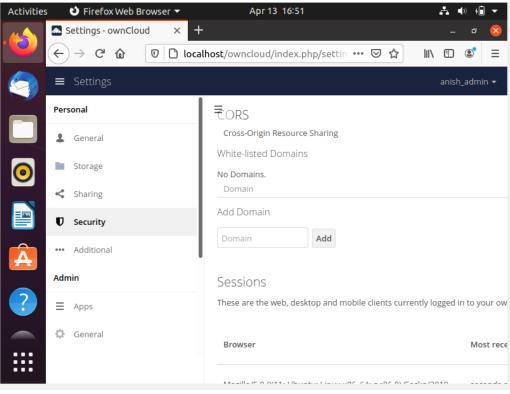


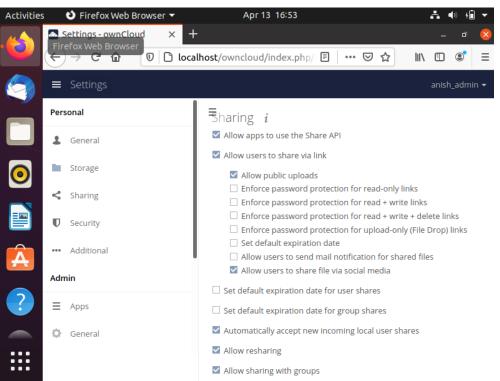
	* file fixewall
	· It provides a policy engine for instance,
12.	prohibiting access to files that do not next
	standards.
	* Foundation
	* Encupting server data at rest, data in motion
	* Key management / CROOSE Algorithm
	* File integrity checking
	* Authentication performed by
	. SSO / SAML 2.0 . AD / LDAP
	· 2- Factor authentication
	* yeur scan
	* Auditability / login
	Mence de have successfully implemented
	and analyzed cloud security wing own
	Cloud
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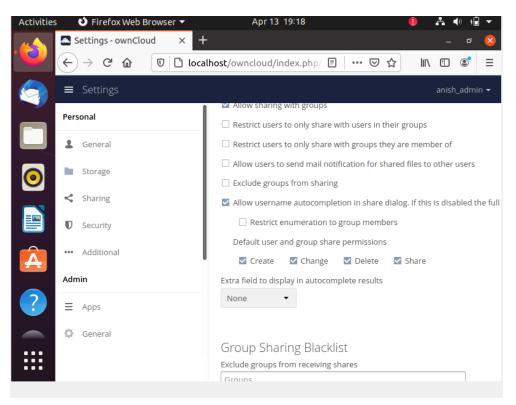
(Bundaram)

# Logging in as admin in own cloud

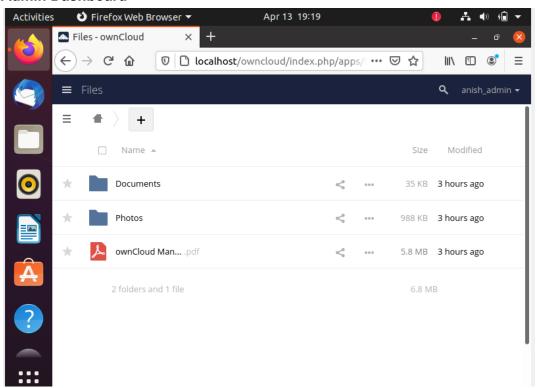




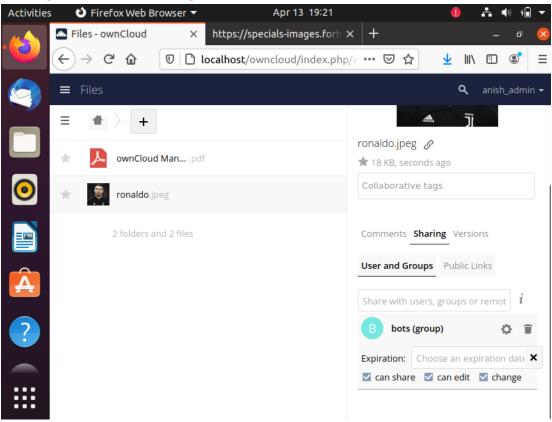




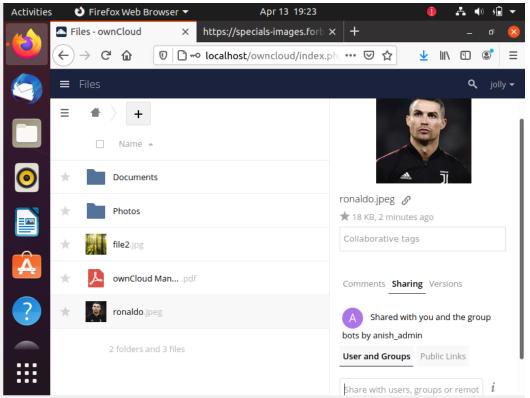
#### **Admin Dashboard**



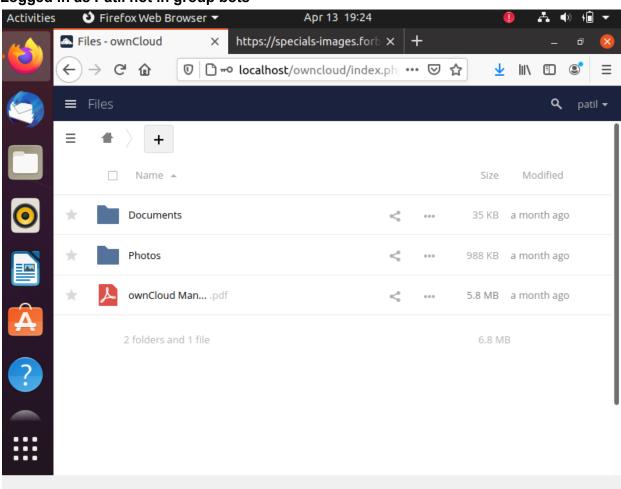
#### Sharing files with different groups



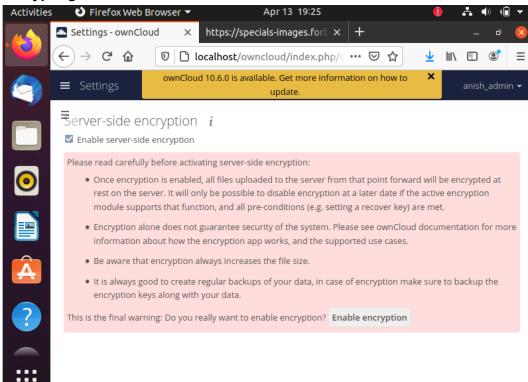
#### Logged in as jolly in group bots

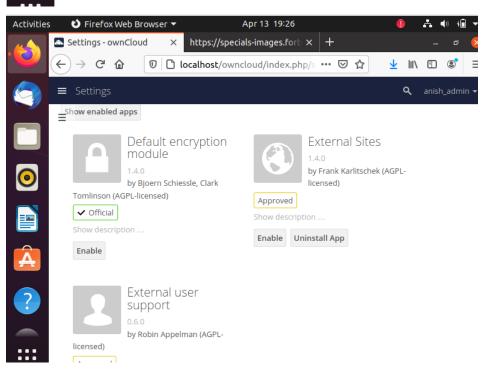


#### Logged in as Patil not in group bots

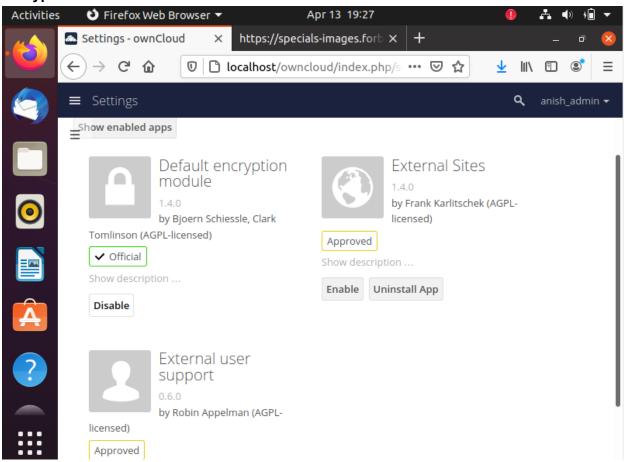


#### **Encrypting all files**

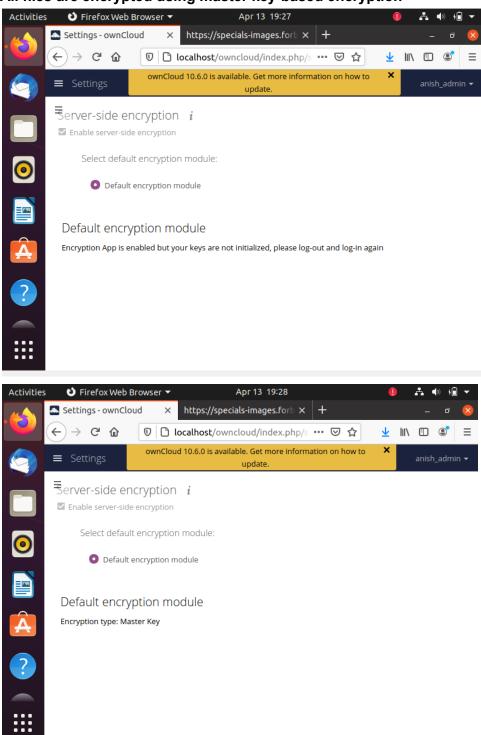




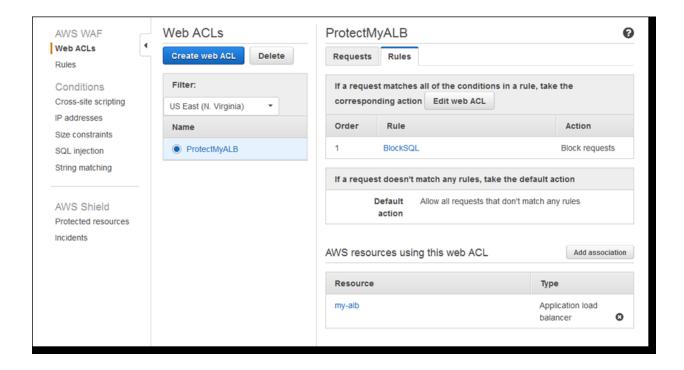
## **Encryption enabled**



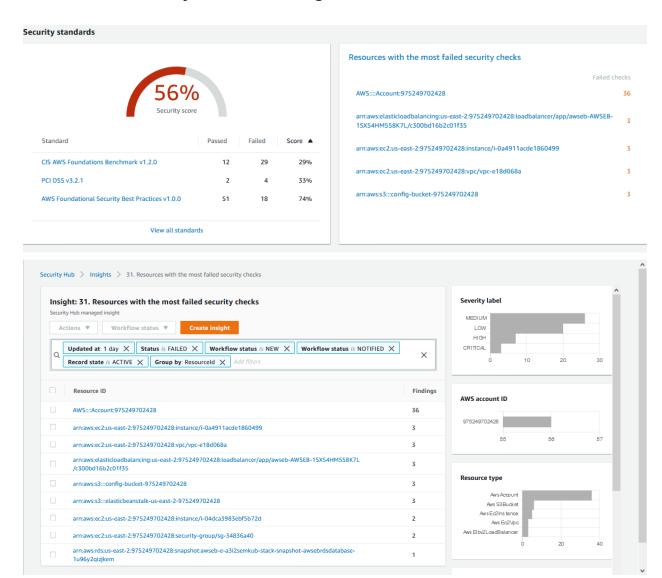
#### All files are encrypted using master key-based encryption



## **AWS WAF Console:**



# AWS overall security score and insights:



# **Security standard PCI DSS results:**

