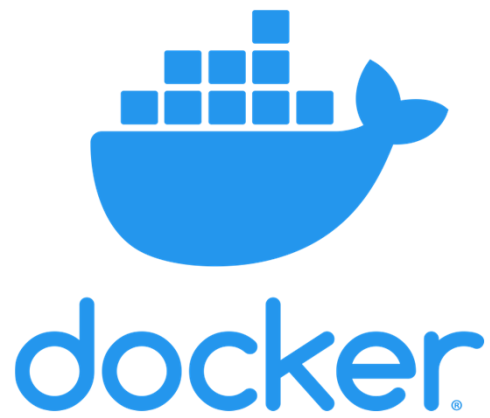




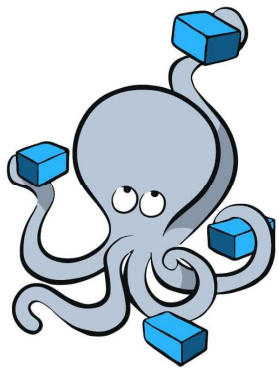
CLOUD COMPUTING

SARA CARPENE'

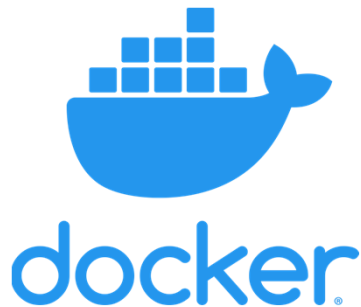


USED TOOLS

DOCKER



docker
Compose



- Docker Compose allows developers to manage multiple containers as a single service
- 2 containers: mariadb and nextcloud
- `docker-compose up`

NEXTCLOUD



Nextcloud allows to automatically let users to register in the cloud service, sign up, log in, and log out.



All users have their private storage space, it's dimension can be set from admin's profile.



In their storage space users can upload, download and delete files.



From admin's profile users can be created and deleted, they can be organized in groups

NEXTCLOUD SECURITY



Server side encryption



Two factors authentication



Requirement for passwords

Minimal Length

Password Expiration Period

Password History:

Lockout Policy

Forbid Common Passwords

Enforce Upper and Lower Case Characters

Enforce Numeric Characters

Enforce Special Characters

Check Against Breached Passwords

NEXTCLOUD SCALABILITY

Horizontal scaling

- Cost can be mitigated by using pay-as-you-go models, such as those offered by Amazon AWS

Vertical scaling

- Generally expensive

Global scaling

- Decentralized model, commodity hardware are significantly cheaper than specialized petabyte servers

LOCUST



- Small dimension file

LOCUST



■ Medium file

LOCUST



- Big file