

Organisation

9h — 17h

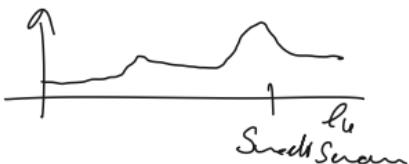
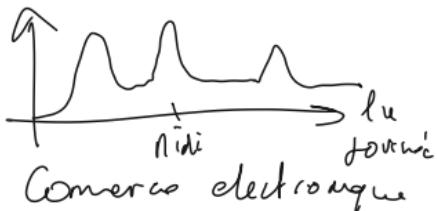
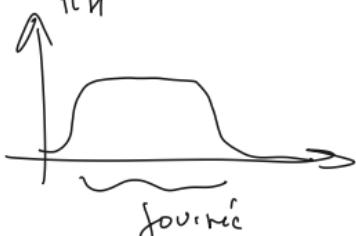
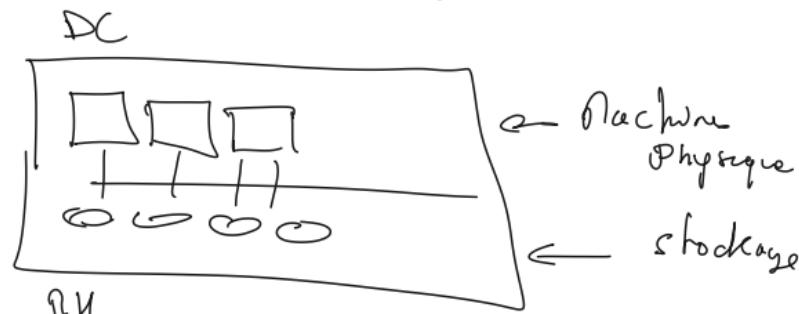
Pause

pause 12h30 ± 13h30

10h30 / 15min
15h30

cloud Prime' (On Prem)

Yellow Cloud → Project Raison



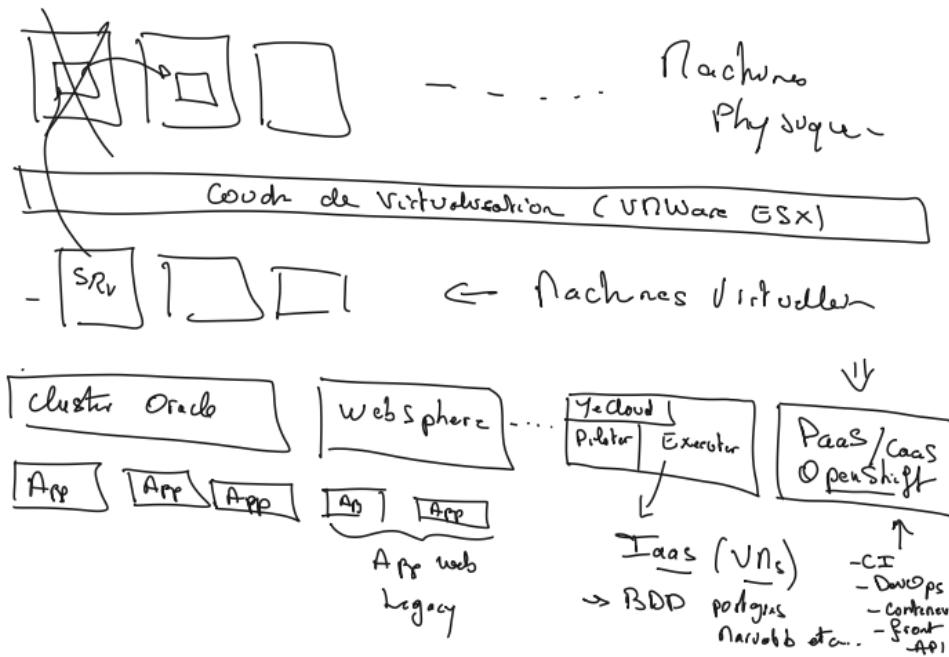
AWS
Azure
GCP

} → Portails, Systèmes "Panoramique"

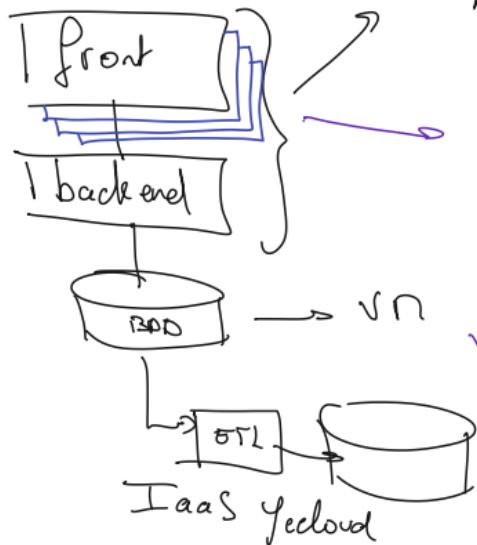
Tierres Orange } Solution "OpenStack"
OUK

La Porte → Yellow Cloud → Solution
"Parasite"
→ VN → 1er Sojet → automatisé
- autres - automatisé'
- manuelle ^{ou} on facade

Récap



Arch's nTier



Modern = PaaS

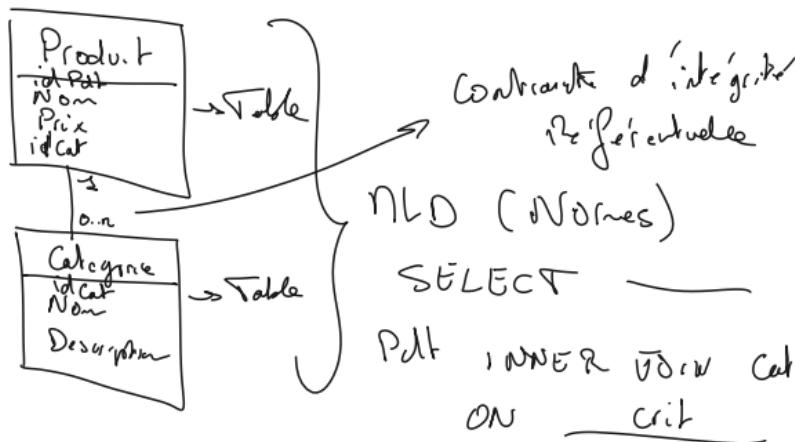
OpenShift (Spring Boot)

in yellow cloud

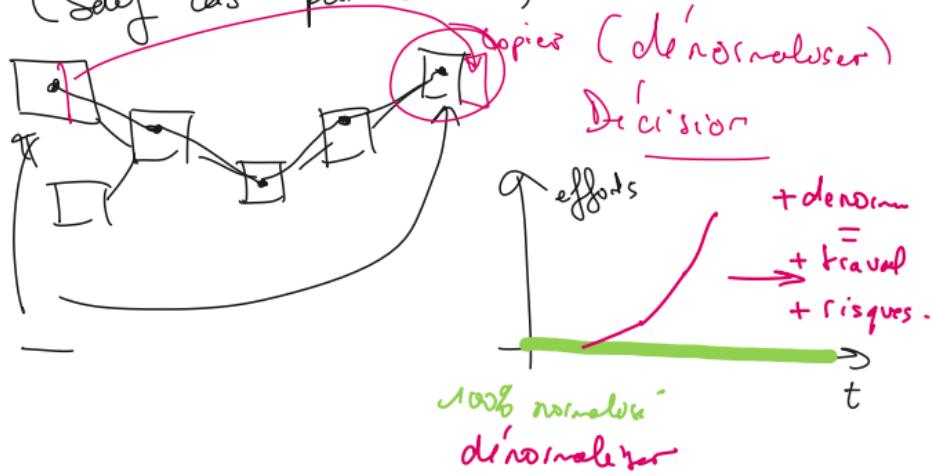
Oracle → Solution Technique

Méthode Conceptuelle (Revisé)

PLD → NLD → MPD -



Normalisation est un pattern en relationnel
(sauf cas particulier)



A hauvre d'internet

→ Perf. interdit l'usage de bases SQL

Dex Spécifiques des stockages

= Bases NoSQL → - CouchBase

Objectif = HA → - MongoDB

- Redis

- Cassandra

- Kafka

Types de charge de travail

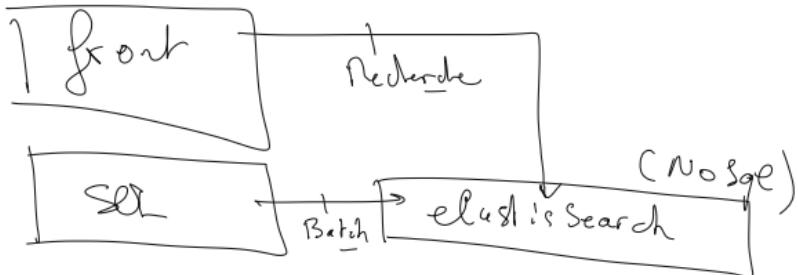
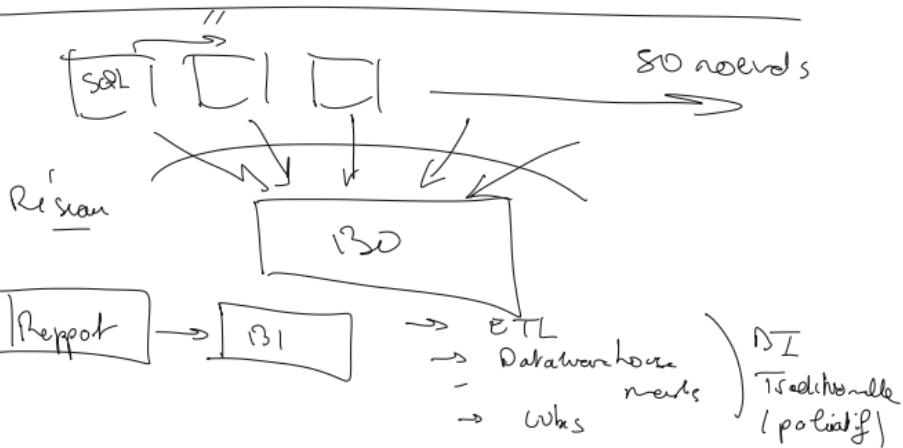
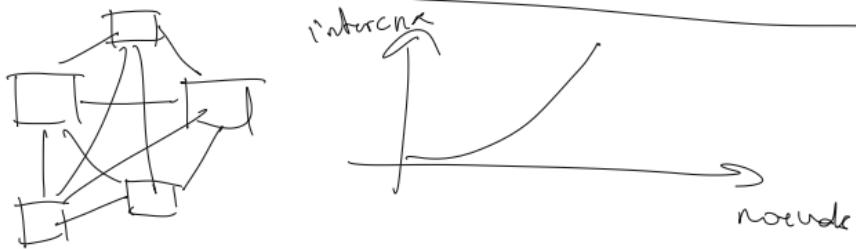
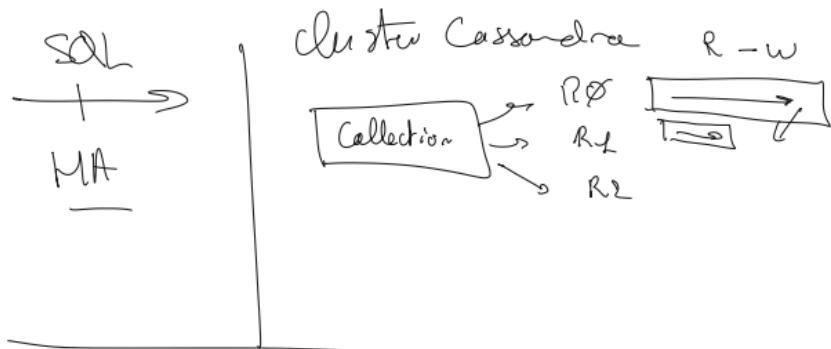
- Stockage en colonnes

- clef/valeur (cache, ...)

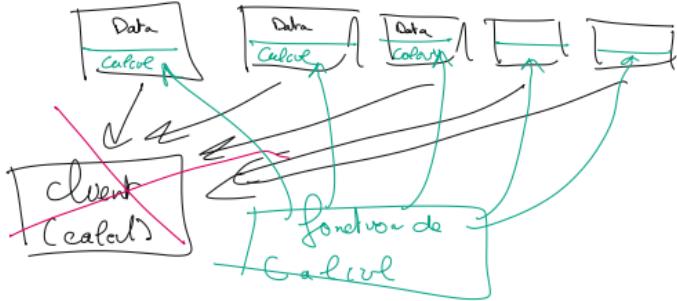
- Document

- Graph

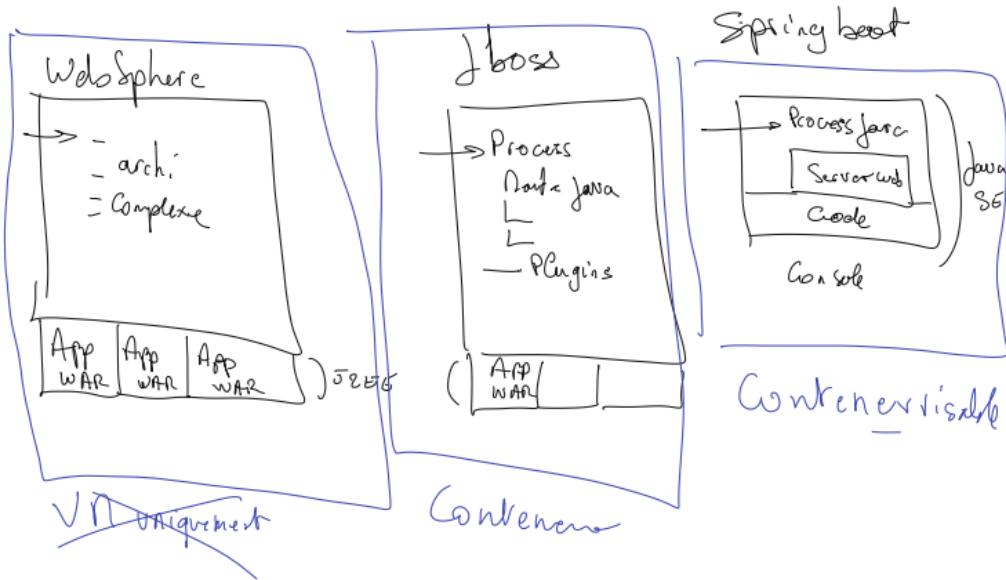
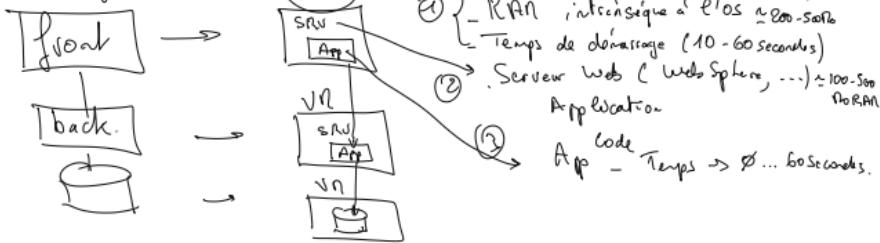
- Messages -



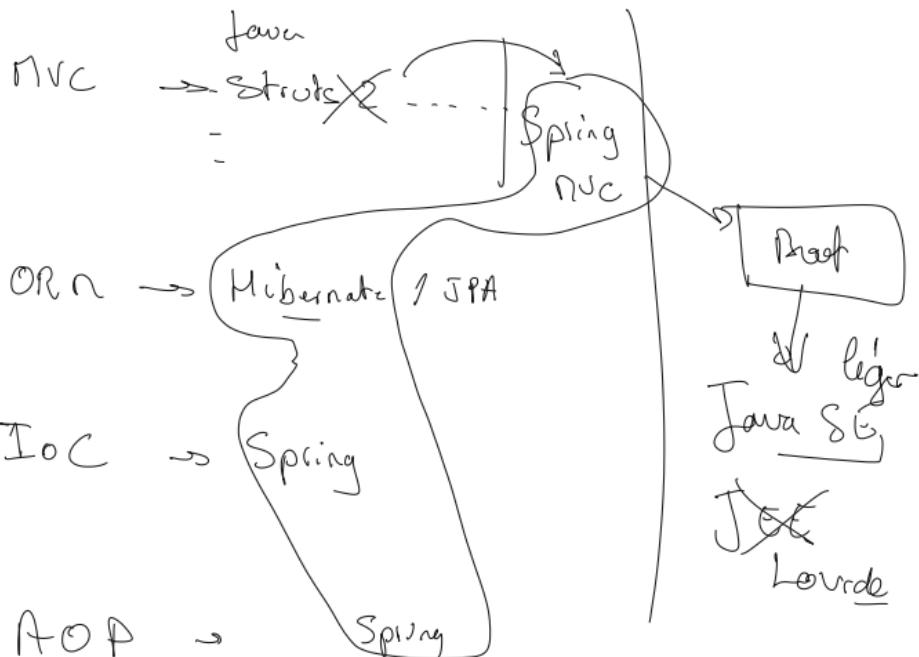
cluster
CouchBase



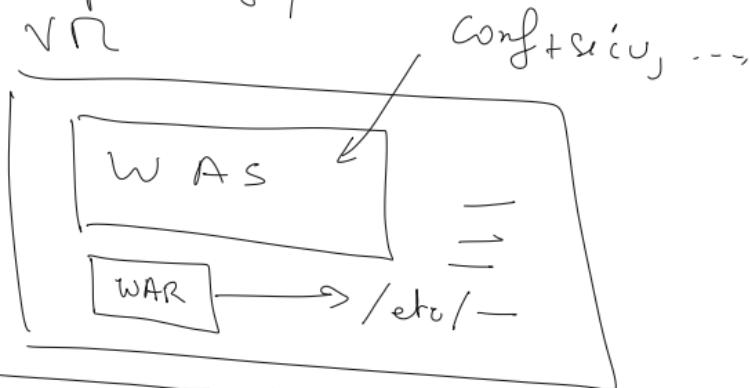
1 Application = n Couches



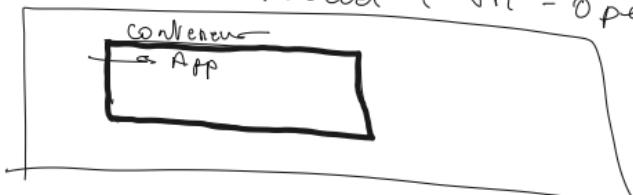
~2000 → Patterns Arch.



WebSphere Legacy



Newer (**vn - openshift**)



OS =

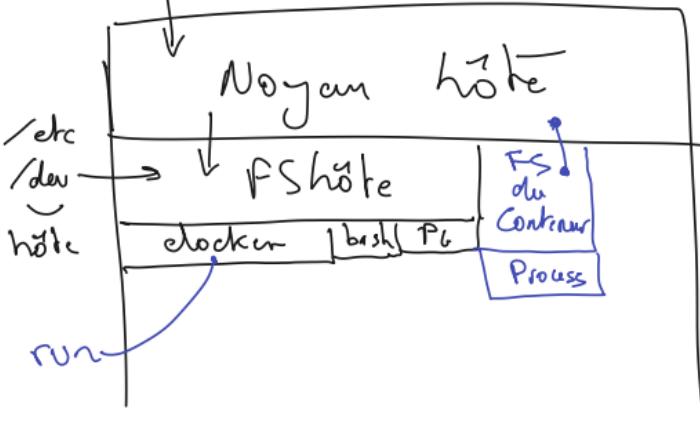
Noyau
+
F.lesystème

Ub72
Kernel SID
FS - Ubuntu

RHg
SID
FU - RA

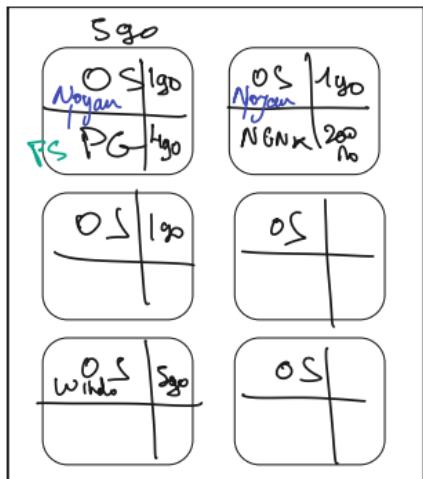
Windows -
- Noyau (DPE)
+
- FS

boot



Ph. node 64 go / 16 CPU

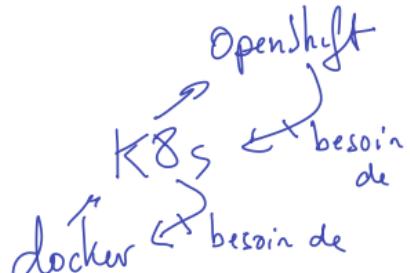
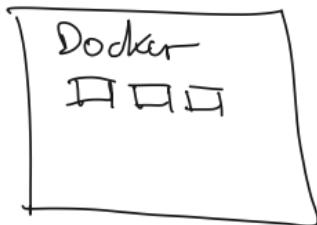
Ph. node 64 go / 16 CPU



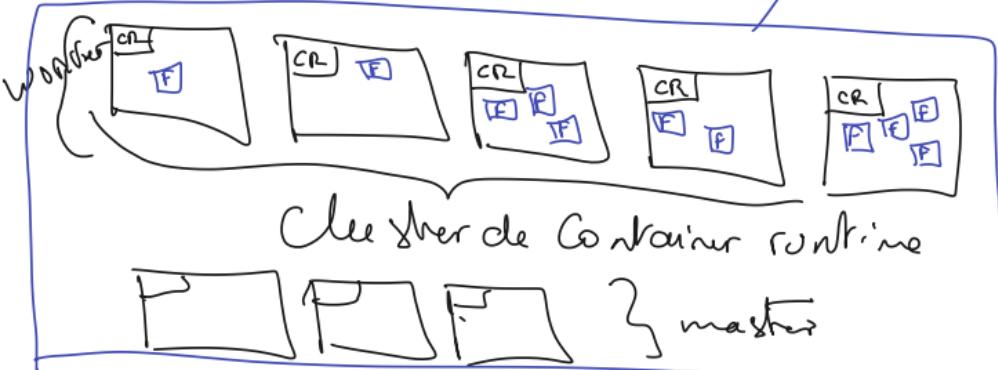
IaaS

PaaS - CaaS -

Node



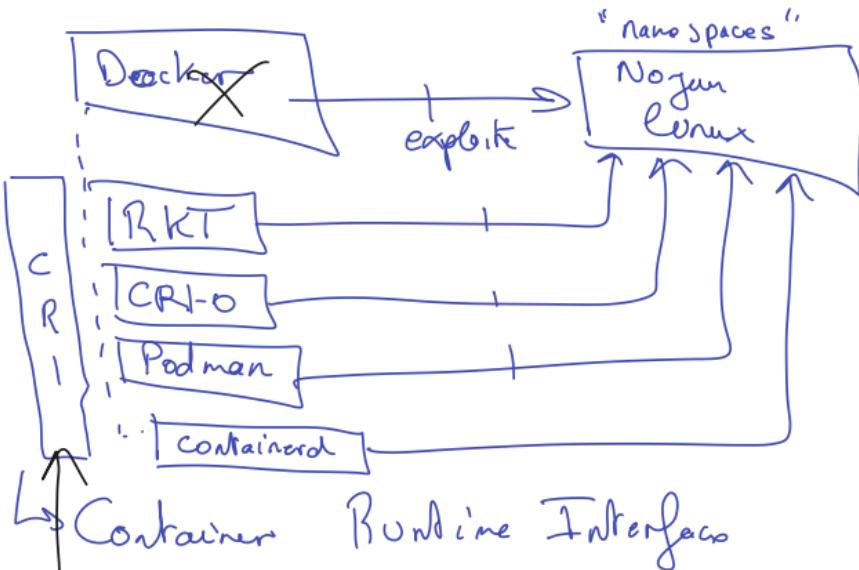
Docker → Simple, non HA ↗ Kubernetes



Docker → ~ 2008 - 2010

→ Réputé

→ Pas standard



K8s → Projet Google
OpenSource
Utilisé à ~ 95%
depuis ~ 2015

IBM

Red Hat

OpenShift → K8s

Containers

- BDD → image / schéma / Externalisation des fichiers -

- App → Front → identique
→ API →

Code Source

- PHP
- Java / Spring Boot

→ execution local
java -jar --.jar

Tasks
Unitaires.
(Integration)
...

SCR

déclencher

Push

GitHub

Build
Jenkins
(CI)

①

②

③

④

Build
mvn

→ .jar

Testunitaires
.jar

SonarQube

Build
image
C image
C image

.jar
Nexus
Image

image

Conf Dev
cluster RHOS

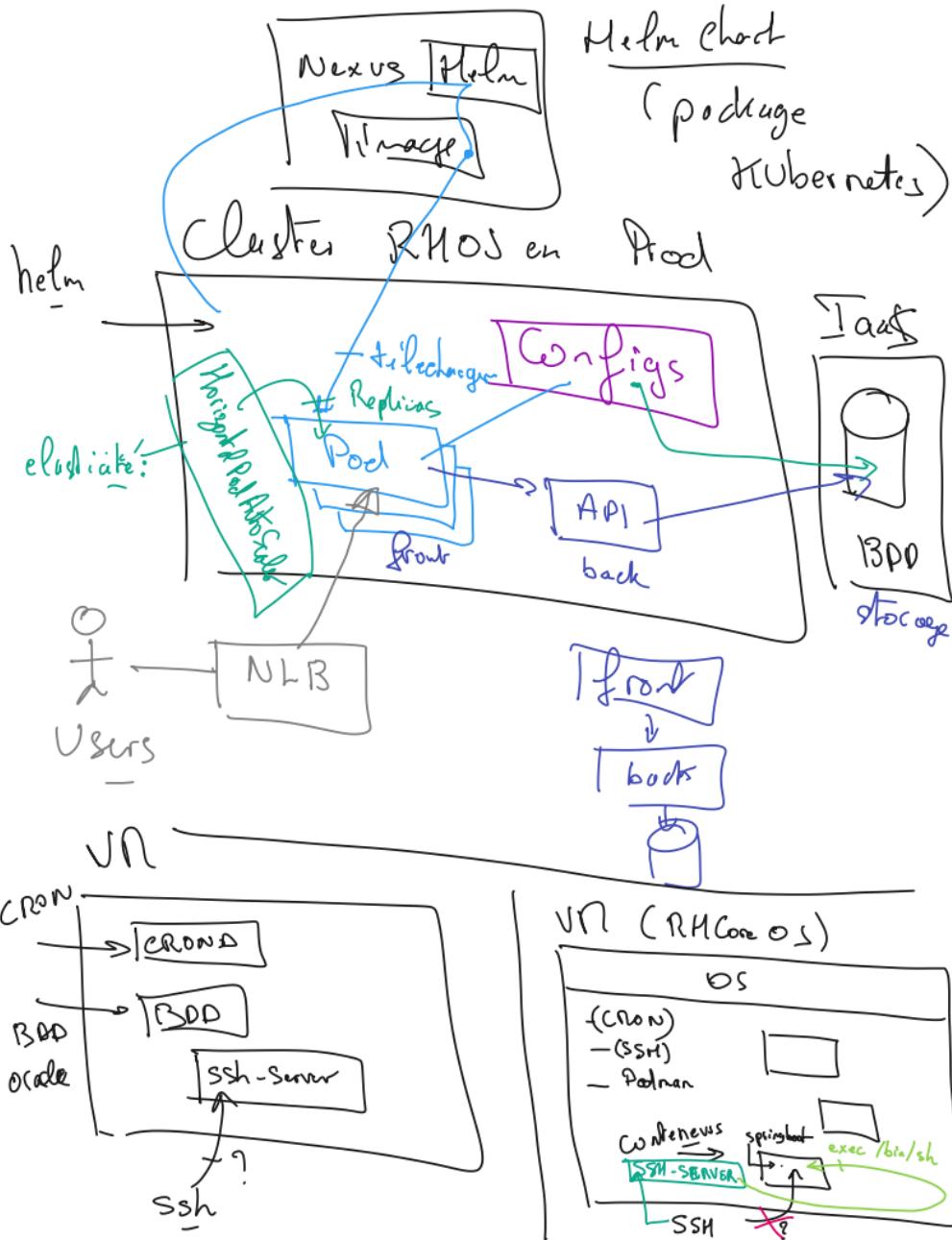
dev

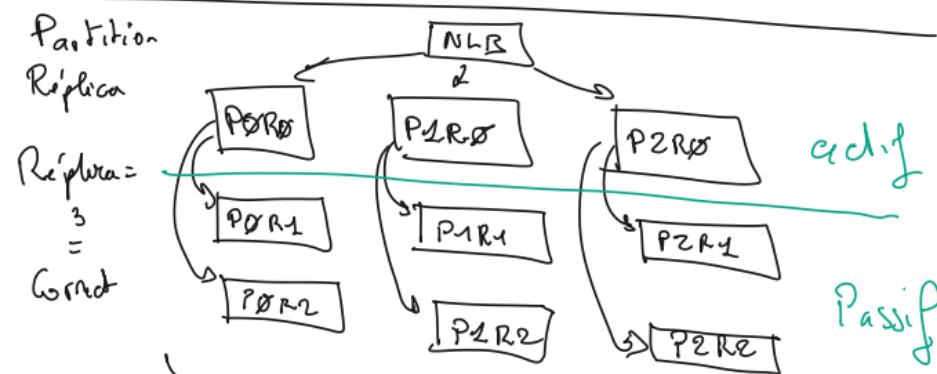
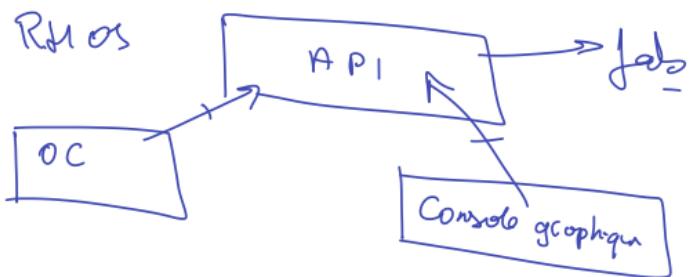
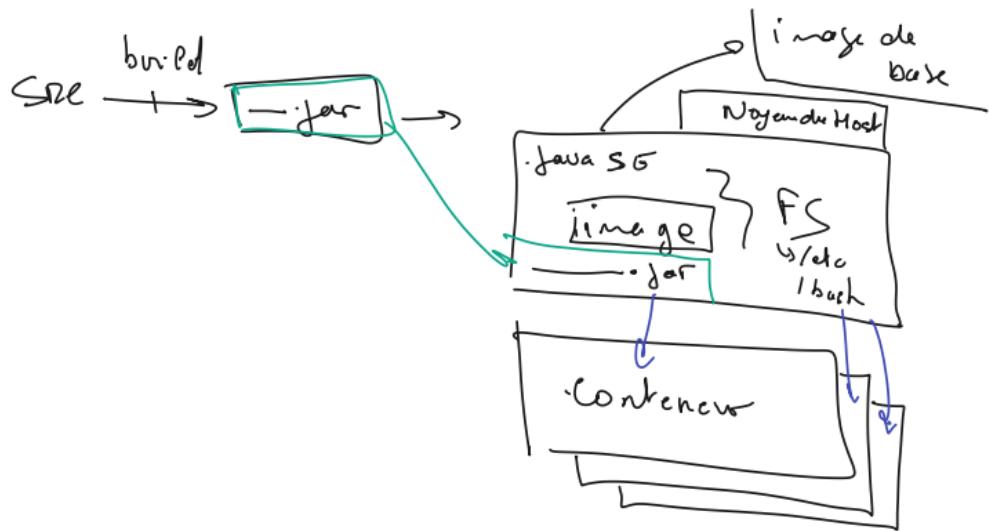
user

Tests
Integral

O

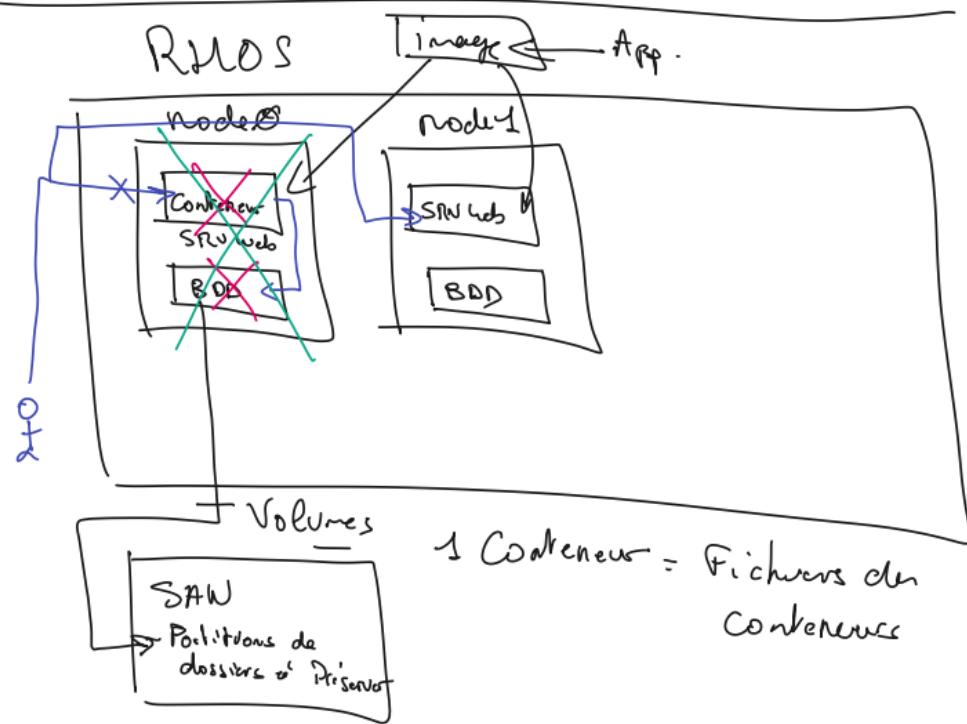
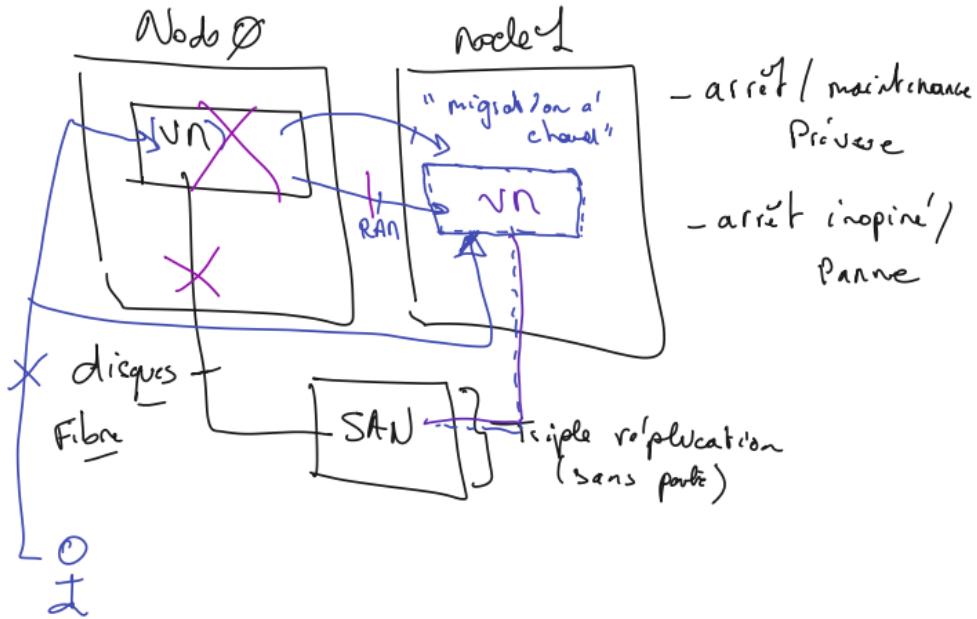
Recette

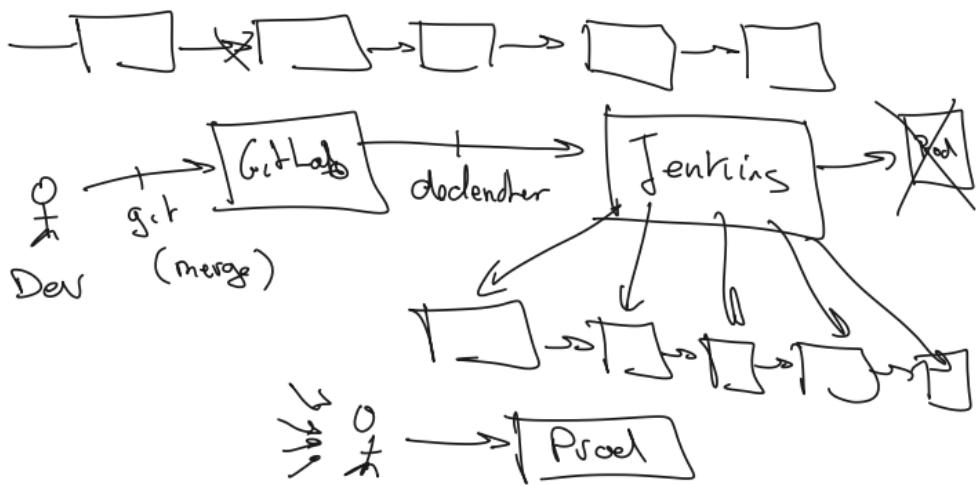
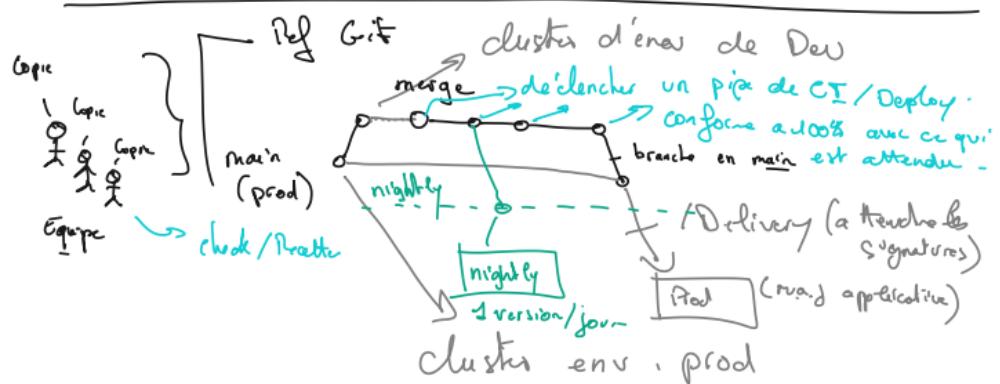
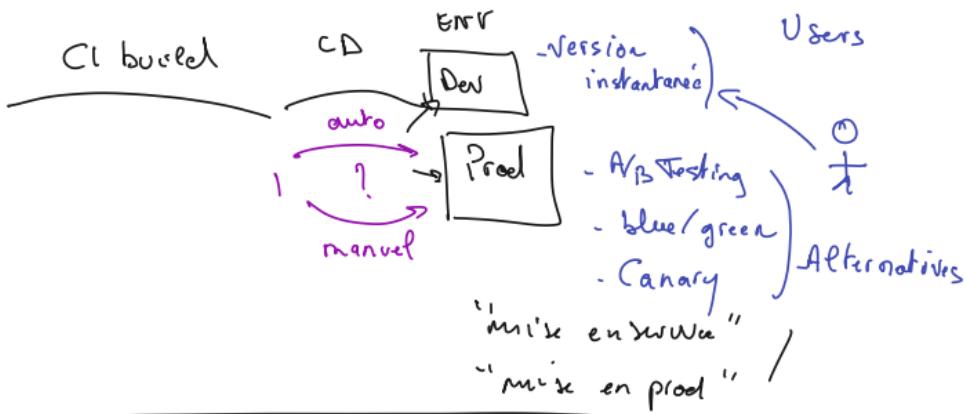




-Synchronise: Pas de perte - implique la disponibilité
- HA de bases de données

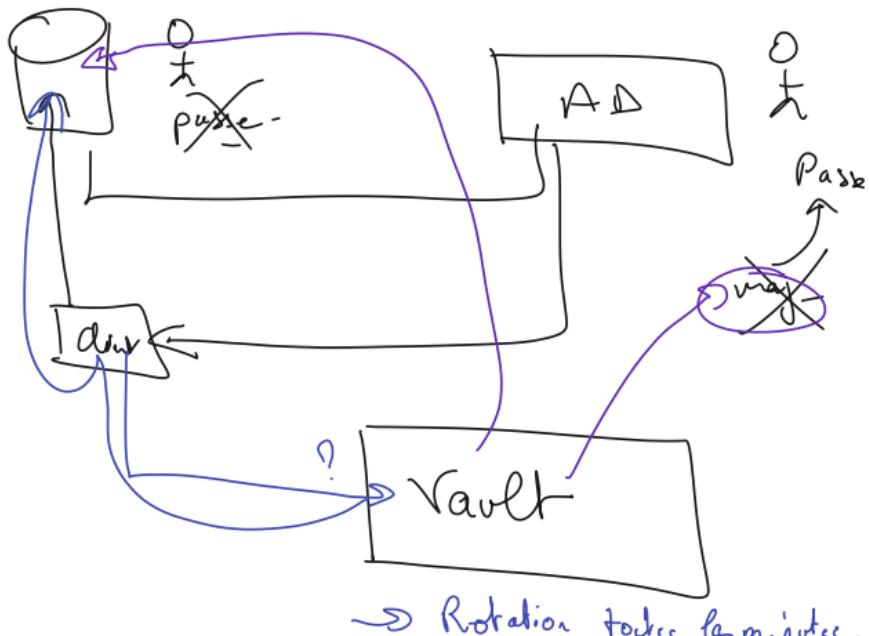
-Asynchrone - Perte - 3 Partitions -
Pas de dépendance -



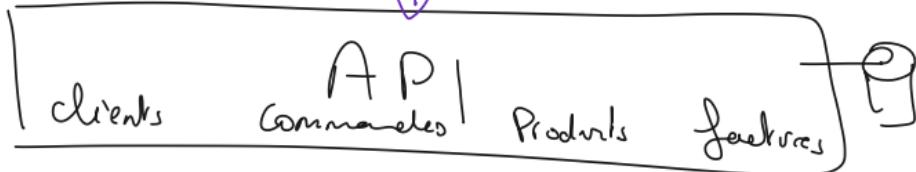


- (Non) Qualité
 - (Règle d'entreprise)
 - Risques de bugs/ mauvaise pratique (faute, ...)
 - Dépendance avec de Vulnérabilités . (CVEs)
- (- Tests = analyse dynamique)
-

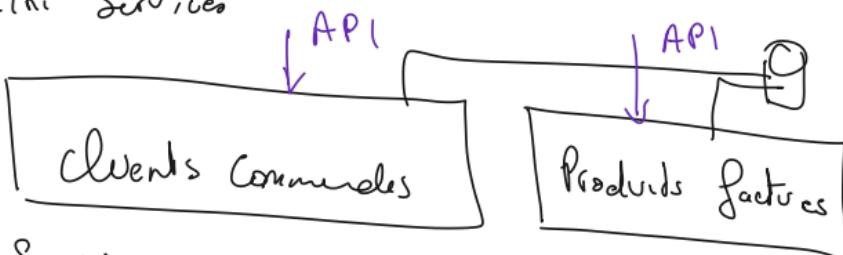
analyse
stratégique



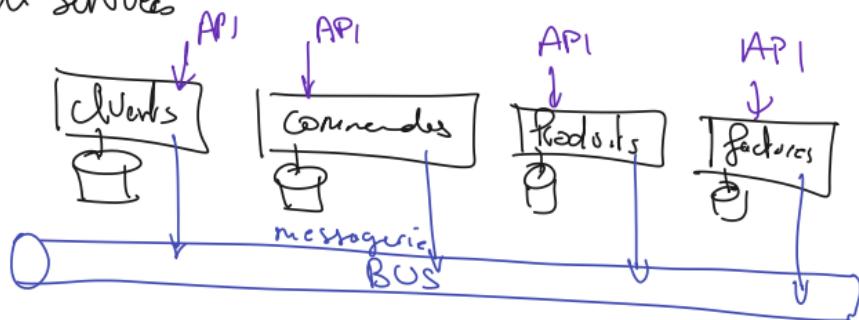
Service:



"Mini Services"



M Services



microServices

