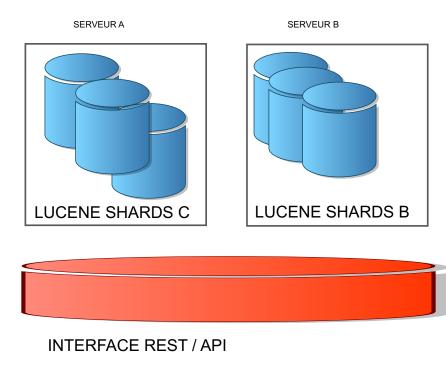
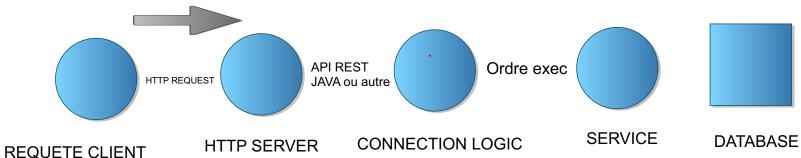
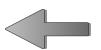
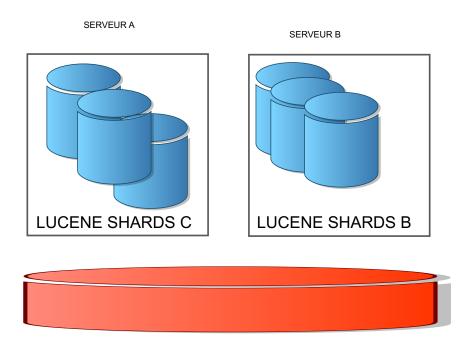
ELASTICSEARCH

- Traitement de Texte depuis les années 70> On sait faire
- Internet => Bouleversement du besoin
 Nécessité d'effectuer des recherches "en ligne"
 Architecture Client Serveur
 Performance + Rapidité des resultats
- Indexation => Contenu LARGE (html)
- Moteur LUCENE (Apache)
- Codé en Java
- API JAva / Limité
- ZERO INTERFACE
- OUVERTURE INTERFACE REST



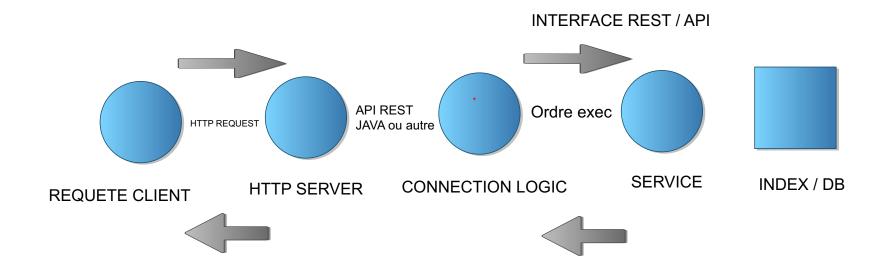




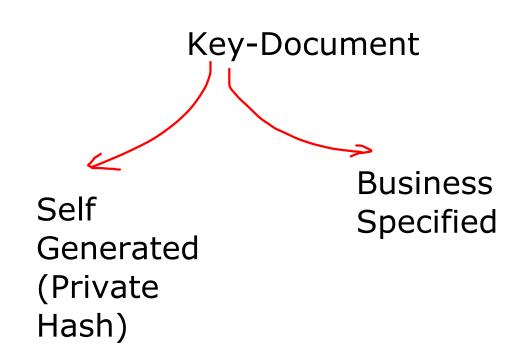


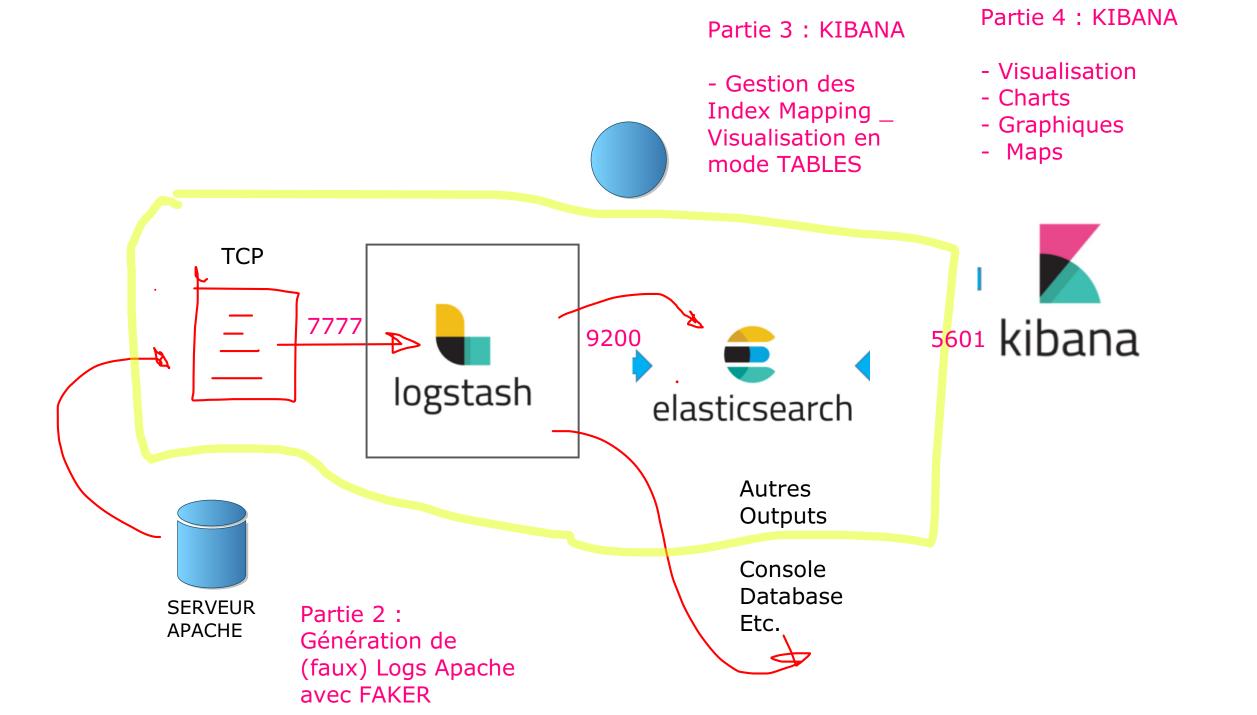
INTERFACE REST / API

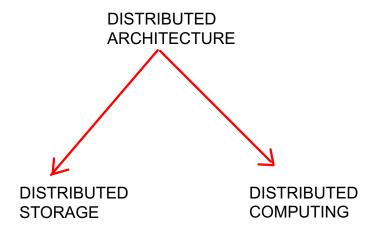
REST API



Key-Value Store





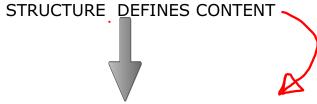


MULTIDIMENSIONAL SCALABILITY

NO SQL

Relachement de contraintes => Schema

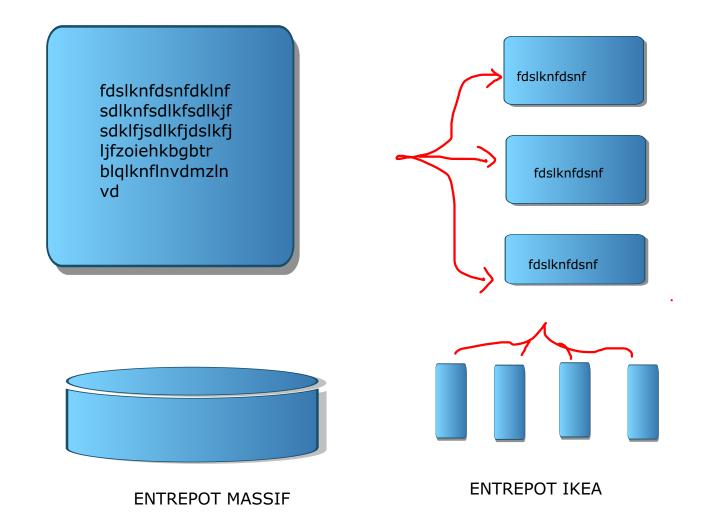
INVERSION DE PARADIGME

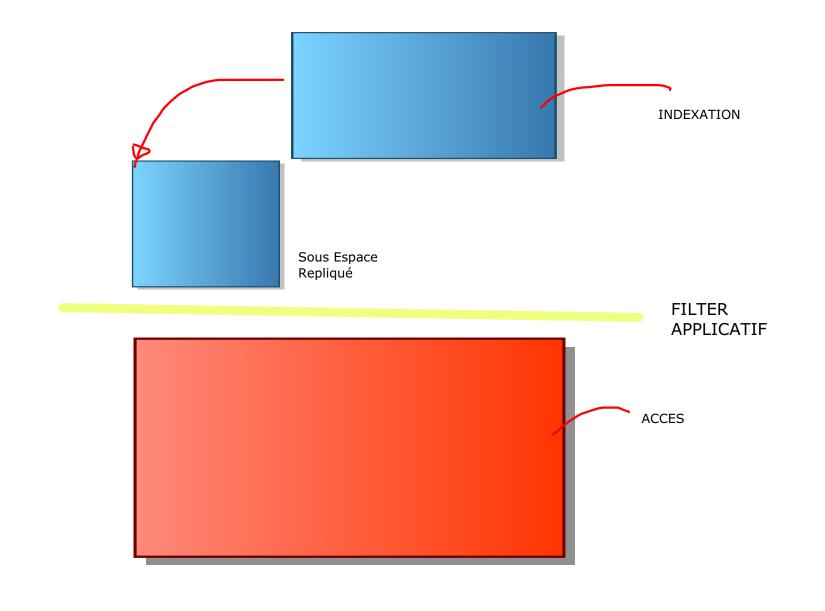


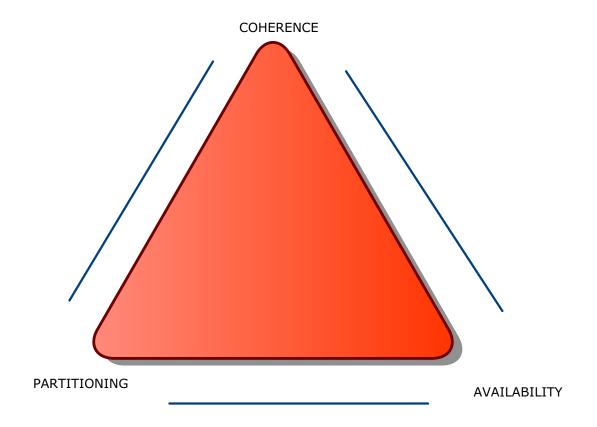
CONTENT DEFINES STRUCTURE

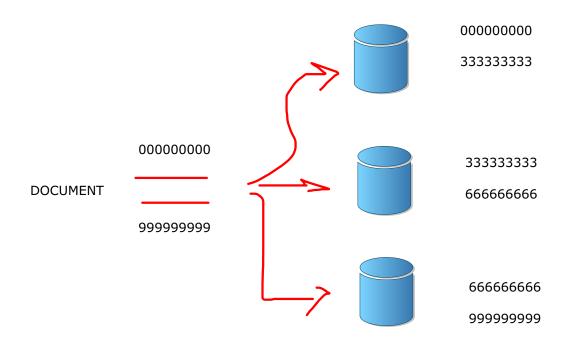




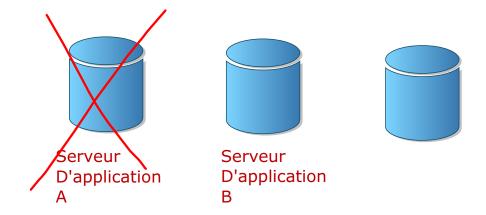








REPARTITION HOMOGENE DES CLES



BY DESIGN

Cas d'usages

- Réparition de charge - Load Balancing

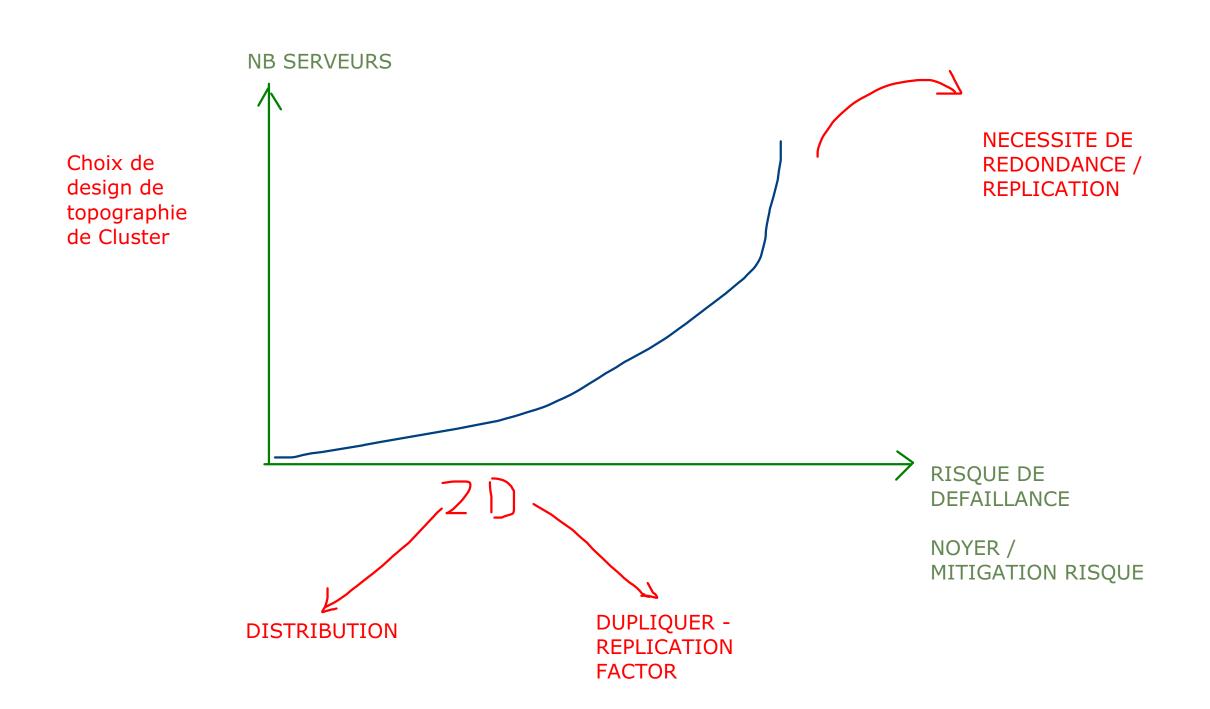
- Tolérance aux Pannes - Fail Over

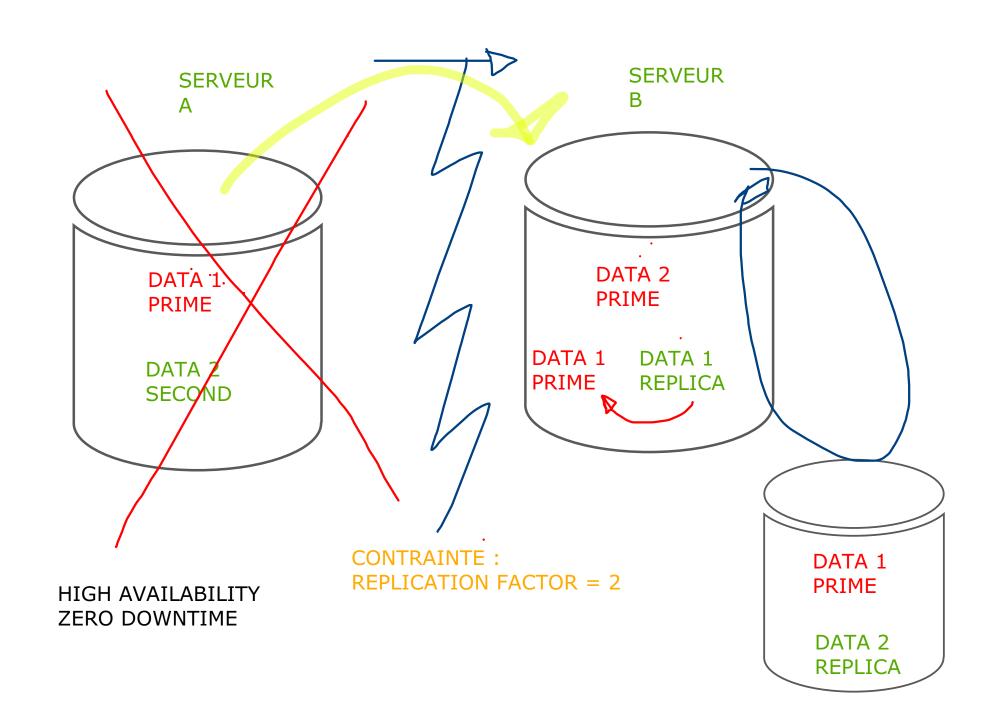
Gestion Manuelle - Third Party (RAID etc.)

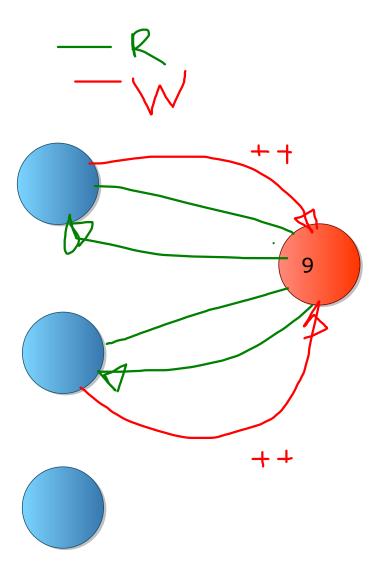
Shit Happens.... (EVENTUALLY)

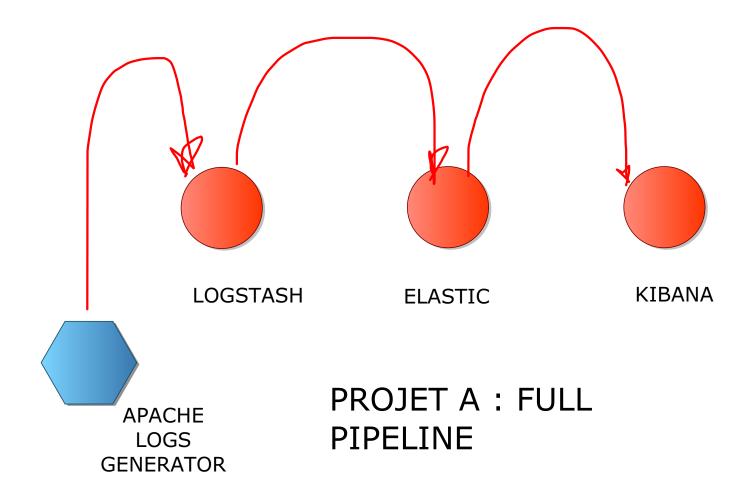
Integrated + Automated

Shit WILL Happen (FOR SURE)

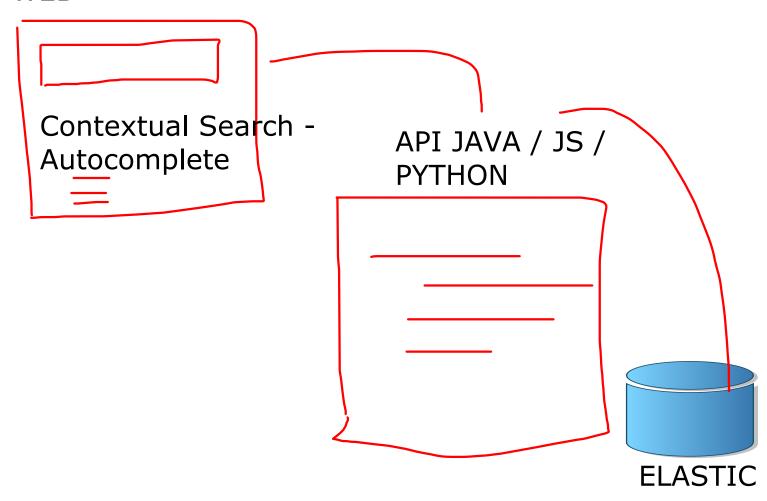




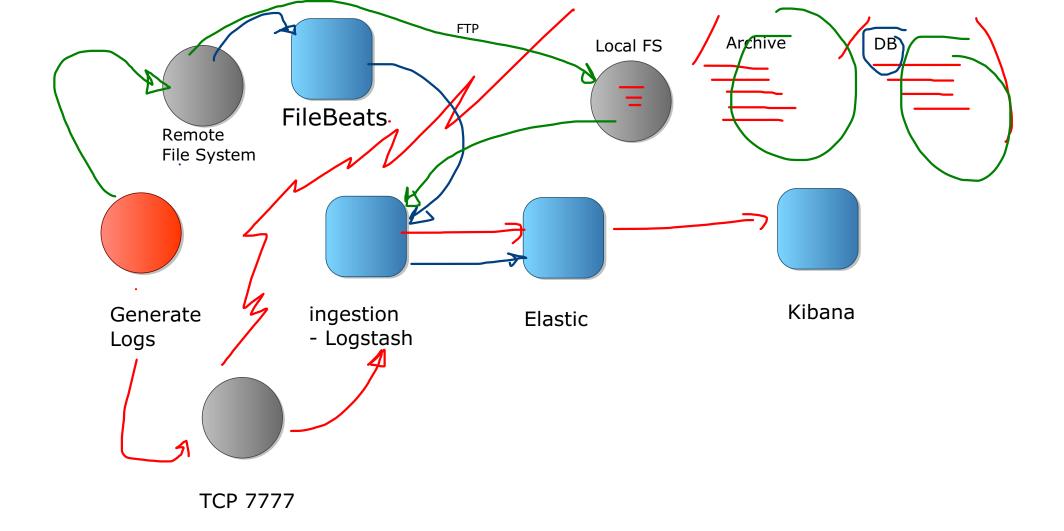




WEB



- PERFORMANCE
- BENCHMARK
- MONTEE EN CHARGE
- CLUSTERING (Connecter en mode Cluster)
- Autres problematiques
 - Concurrence
 - Accès par niveau d'autorisation



GEO POINT PROCESSING

- COMPLEX ASPECT
- BLACK BOX
- NOT WELL DOCUMENTED
- MANY WAYS TO IMPLEMENT
 - FILTER
 - PROCESSOR
- VERY VERSION SENSITIVE
- VERY SYNTAX SENSITIVE
- => WHICH LEAD TO:
 NECESSITY OF TRIAL AND ERROR



Input

- Sources
- Fichiers
- Directories
- Ports
- JDBC
- Databases
- Streaming
- REST



Filter

- grok
- processors
- geoip
- etc.



Output

- Console
- Log
- Elasticsearch
- Others