

FROM IDEA TO PRODUCTION

THE ASIAKASTIETO OPENSIFT JOURNEY



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10.9.2018

WHO I AM

- Eero Arvonen
- Coding professionally since 2011
- With Suomen Asiakastieto since 2016
- Application Architect since late 2017



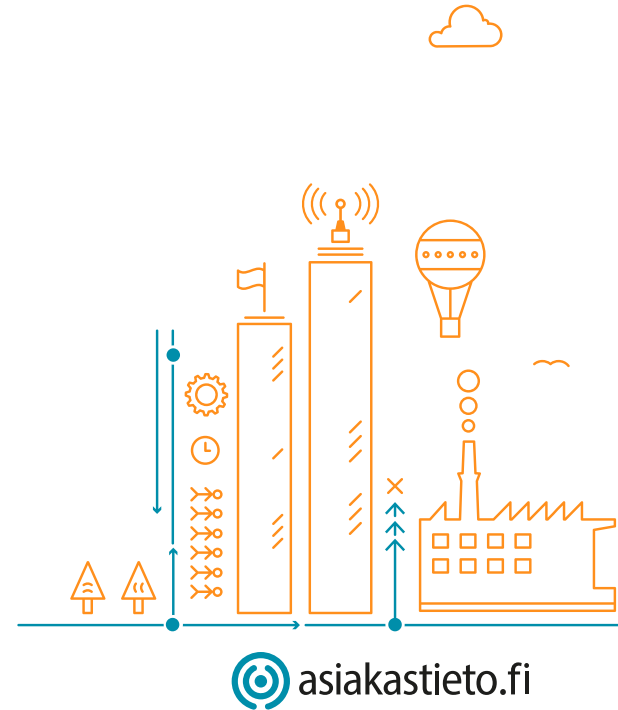
WHO WE ARE

- Suomen Asiakastieto
- Oldest branch founded in 1905
- ~150 employees (well, more like 500)
- ~30 IT people, 50-50 Dev and Ops
- Publicly traded since 2015



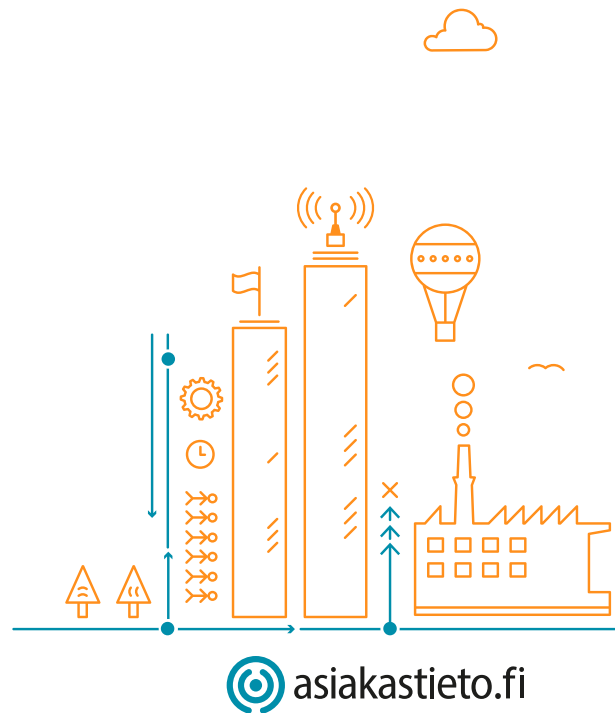
WHAT WE DO

- Leading business and consumer information service provider in Finland (and Sweden)
- Automation of decision making and risk management processes
- Credit rating of individuals and companies
- Know Your Customer and Anti Money Laundering



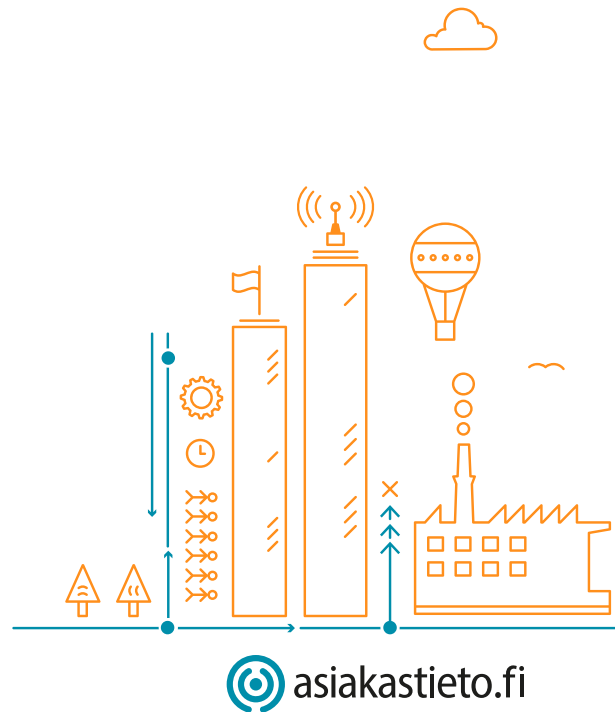
OUR IT IS PRETTY EFFICIENT

- Mostly in-house
- One deployment per day
- Uniform architecture
- Reasonable costs



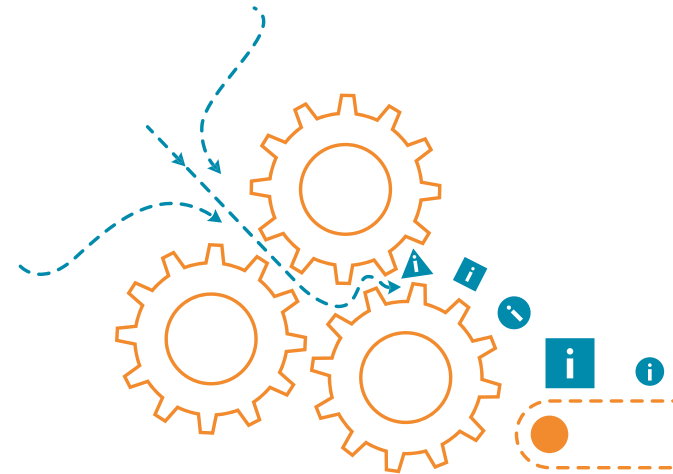
AND WE NEED TO STAY AHEAD

- Scaling is painful
- Crammed application servers
- Trying new things is hard



SO WE DID A POC

- Installed OpenShift on-premise
- Ported an application
- Demonstrated high availability



JUMPING IN AT THE DEEP END

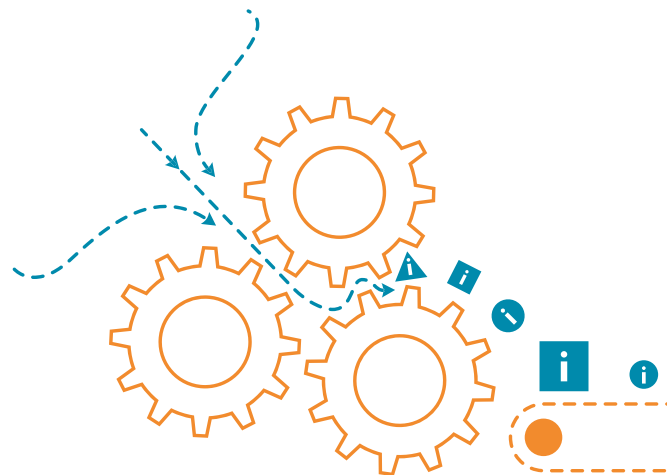
- GDPR compliance service on OpenShift
- OpenShift from Ambientia (new platform)
- Luoto Company (new partner)
- Node.js (new tech)
- Hard deadline
- What could go wrong?



AS IT TURNS OUT

OpenShift never was a burden at all

- CI/CD pipeline out of the box
- Parallel environments
- Inherent portability



WHAT BECAME OF IT

FI | EN | SV | DE |

FRONT PAGE CREATE A NEW REGISTER CHANGE REQUESTS ² SETTINGS

Create a new register

Upload a CSV file to the service by dragging and dropping the file into the field below or by selecting the file by clicking on the area. Name the register in a descriptive way as people will see the register name when checking their data. You can also add a more specific description of the register for internal use.

Name of the register *

Description

Accepted file types: CSV
Maximum file size: 50mb

Drag and drop or select the file to be uploaded here

Download file

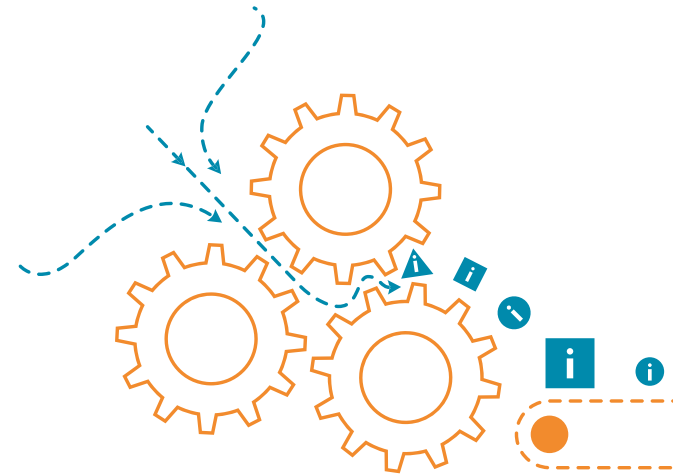
WHAT BECAME OF IT

- 12 deployments, 13 pods
- ~10 updates since rollout
- Rolling deployments
- N-1 compatible changes
- Parallel prod for Sweden

Deployments [Learn More](#)

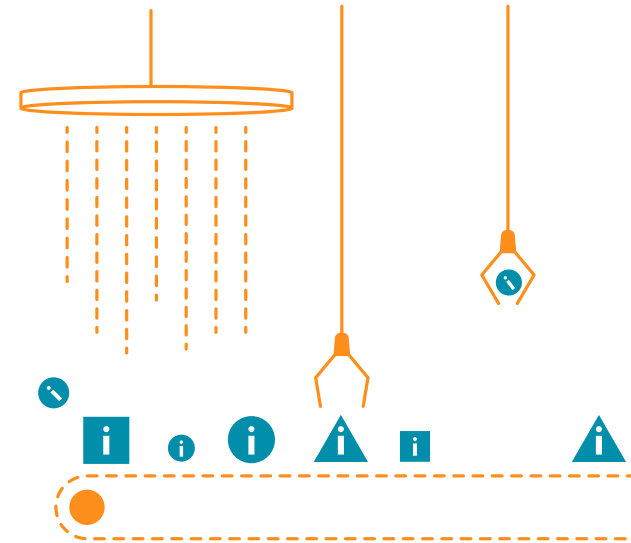
Name	Last Version	Status
gepardi-createfileapichangerequests-prod	#6	🔄 Active, 1 replica
gepardi-createsftpbatches-prod	#6	🔄 Active, 1 replica
gepardi-db-prod	#9	🔄 Active, 1 replica
gepardi-handlefileapichanges-prod	#7	🔄 Active, 1 replica
gepardi-prod	#52	🔄 Active, 2 replicas
gepardi-updateusers-api-prod	#6	🔄 Active, 1 replica
gepardi-virhesivu	#5	🔄 Active, 1 replica
satgepardi-createbatch-prod	#21	🔄 Active, 1 replica
satgepardi-deletebatch-prod	#12	🔄 Active, 1 replica
satgepardi-emailbatch-prod	#5	🔄 Active, 1 replica
satgepardi-parsebatch-prod	#20	🔄 Active, 1 replica
satgepardi-recreatebatch-prod	#5	🔄 Active, 1 replica

PHASE TWO – PRIVATE OPENSHIFT



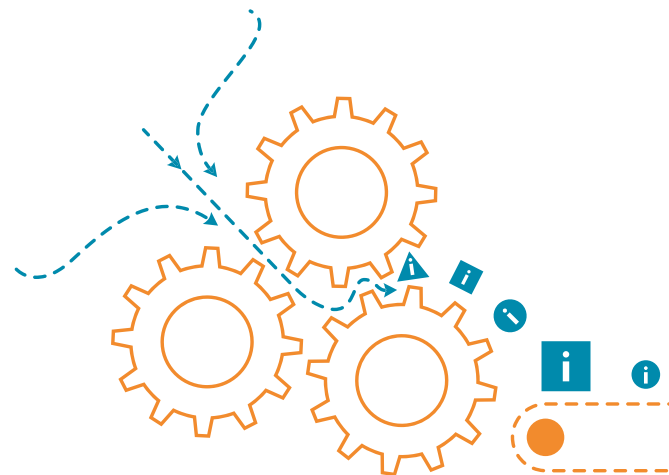
HOW TO EAT AN ELEPHANT?

- One container at a time
- EAP out of the box
- Picked a few candidates
- Focus on Omatieto from POC



FIXING THE LITTLE THINGS

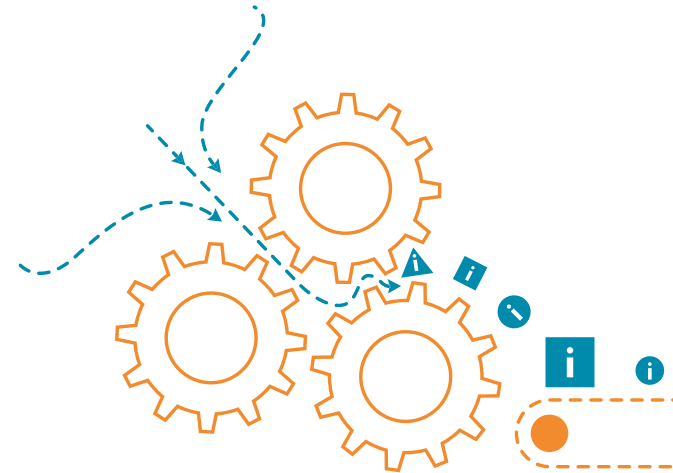
- Made generated classes Serializable
- Don't call localhost
- Sideways compatibility



SEEING THE BIG PICTURE

Can't reinvent the wheel

- Integrate into existing CI/CD

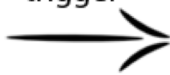




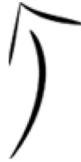
commit



trigger



deploy



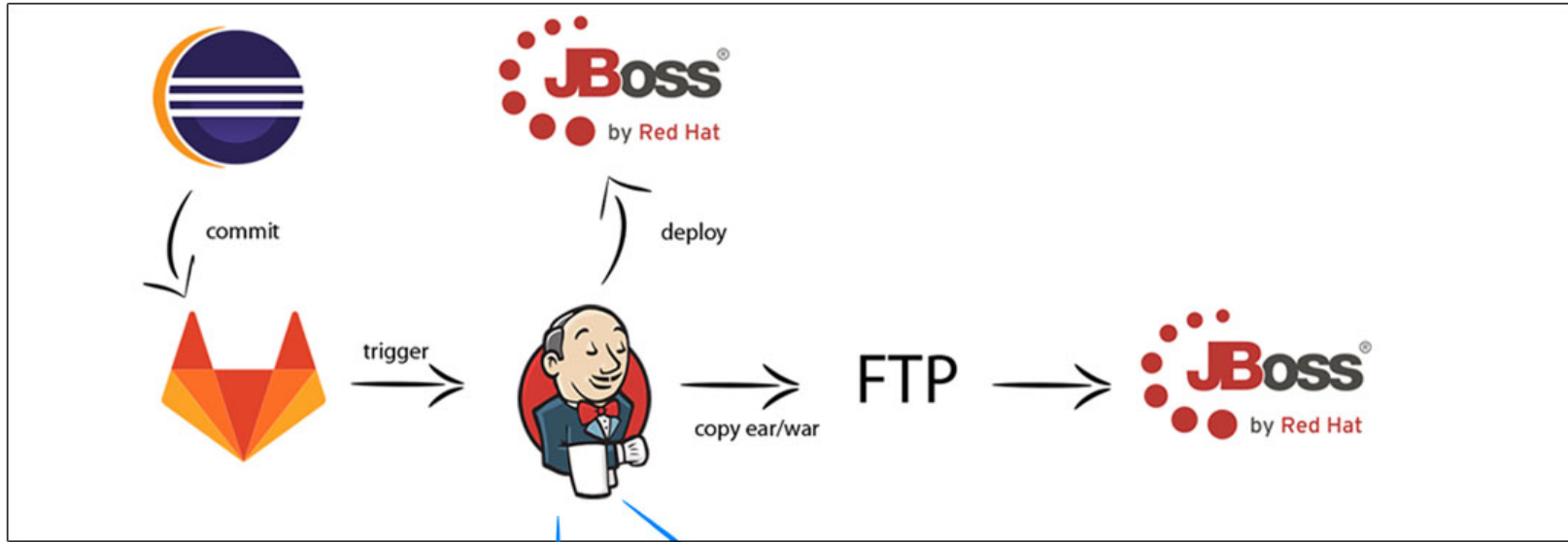
copy ear/war



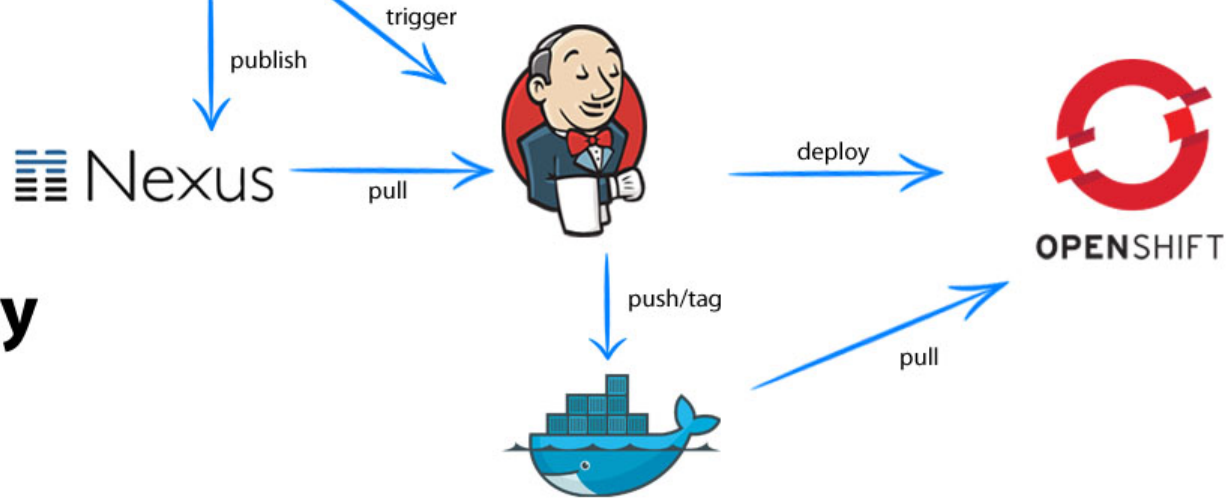
FTP



Old way



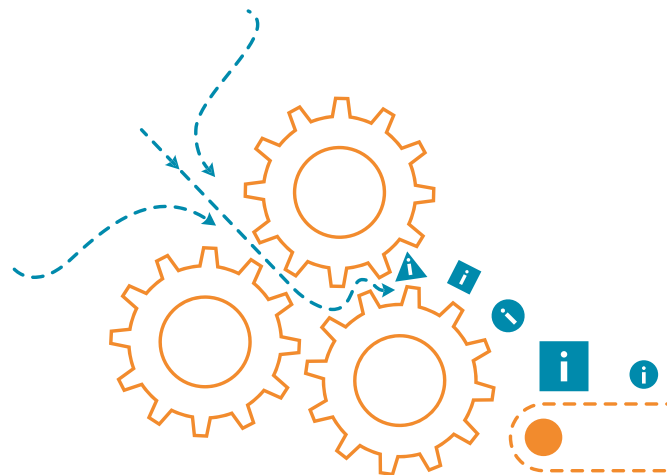
New way

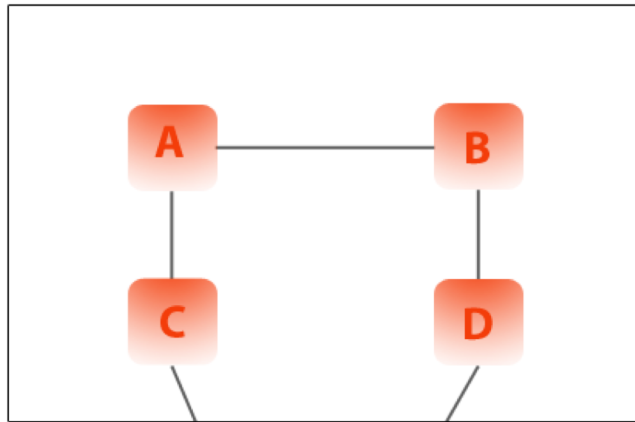


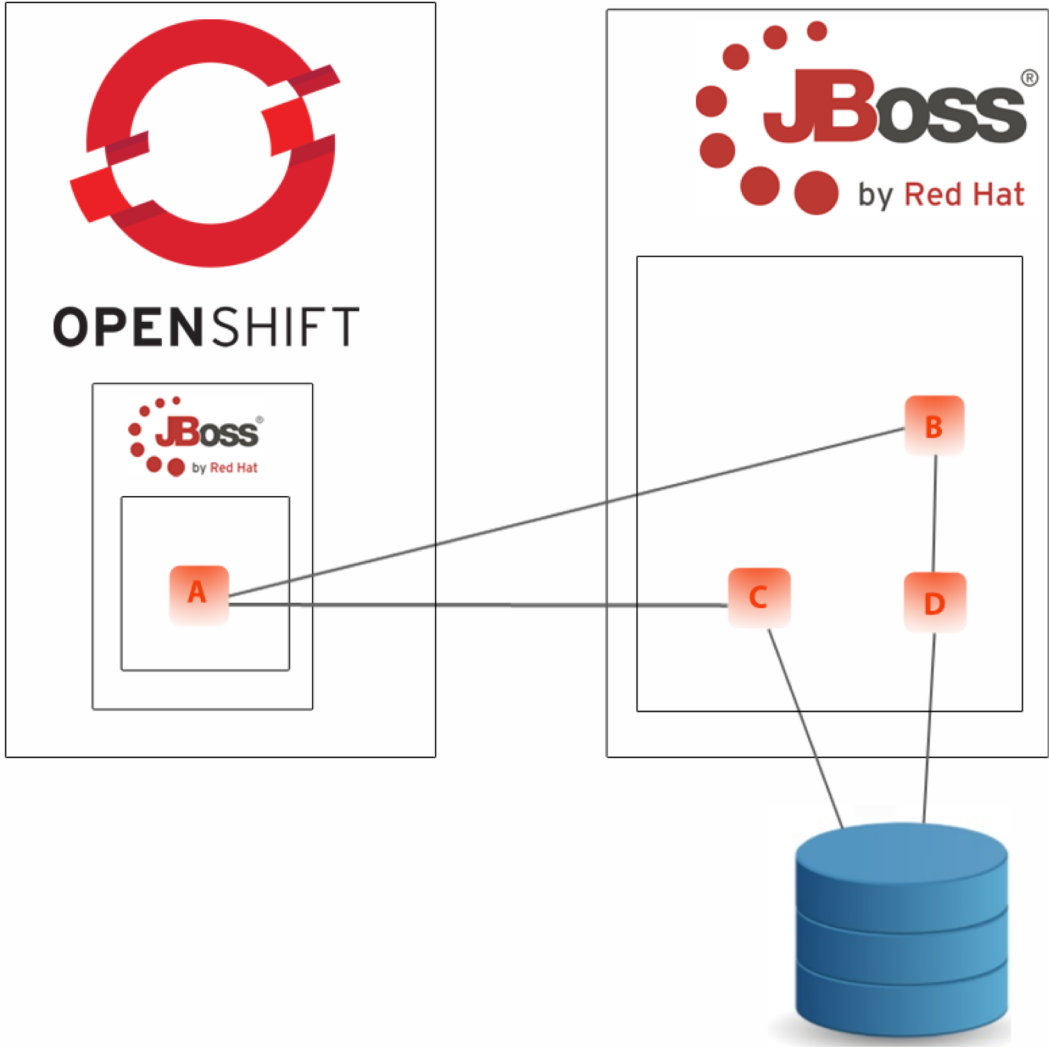
SEEING THE BIG PICTURE

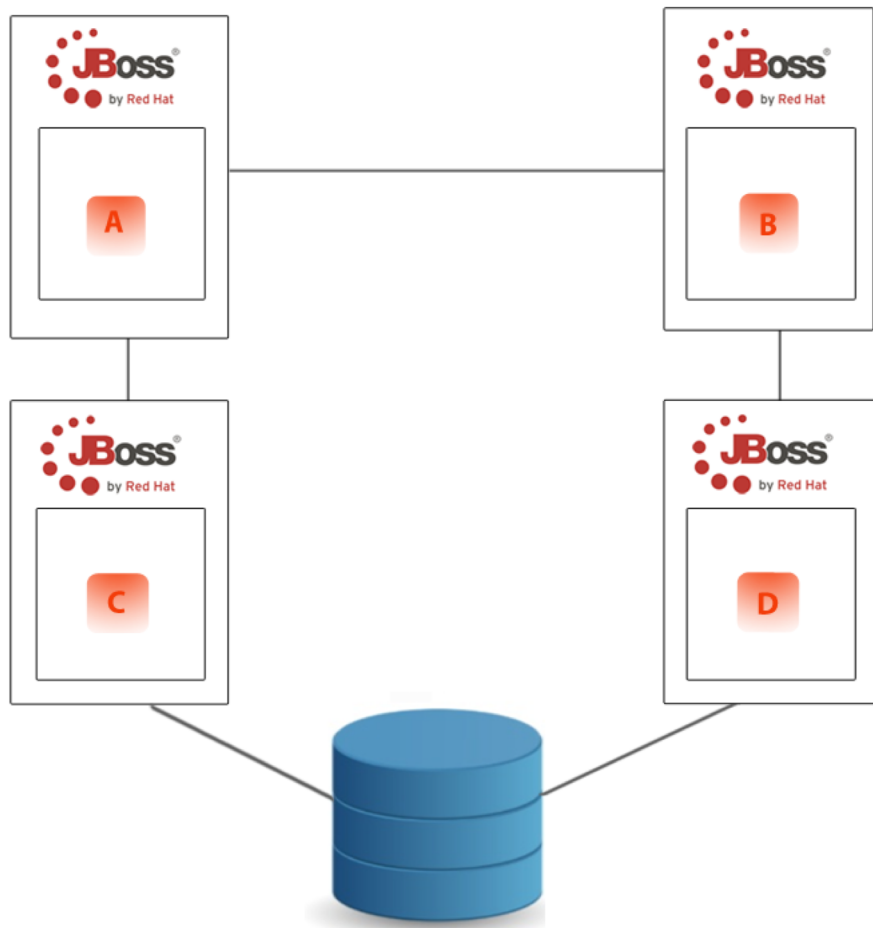
Can't reinvent the wheel

- Integrate into existing CI/CD
- Provide an incremental transition path



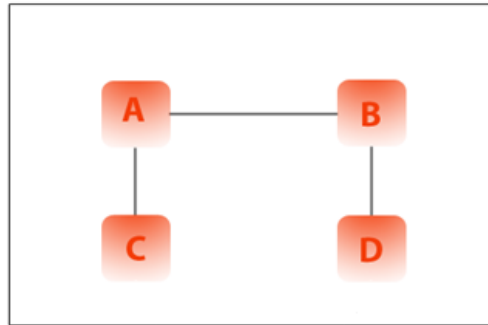






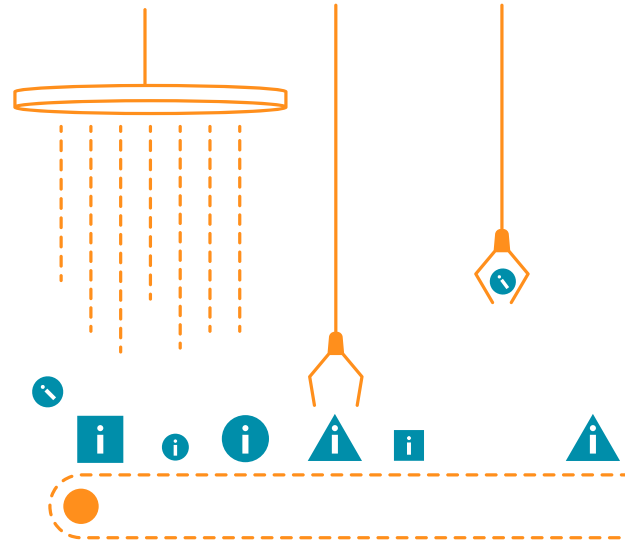


OPENSIFT



WHAT DO?

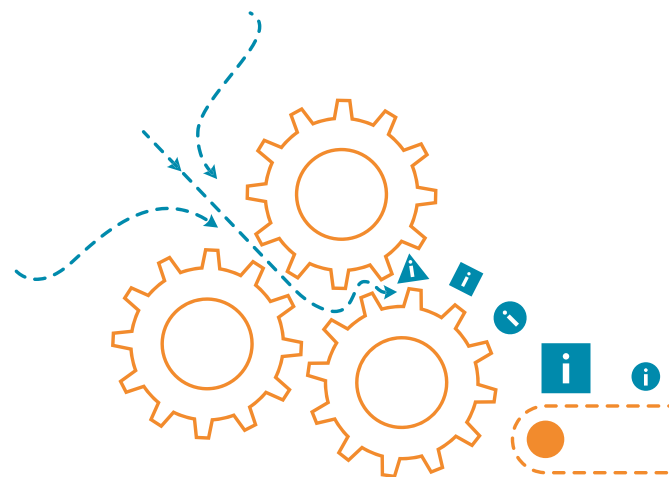
- Options, no decisions on back-end
- Front-end is straightforward and high value



SEEING THE BIG PICTURE

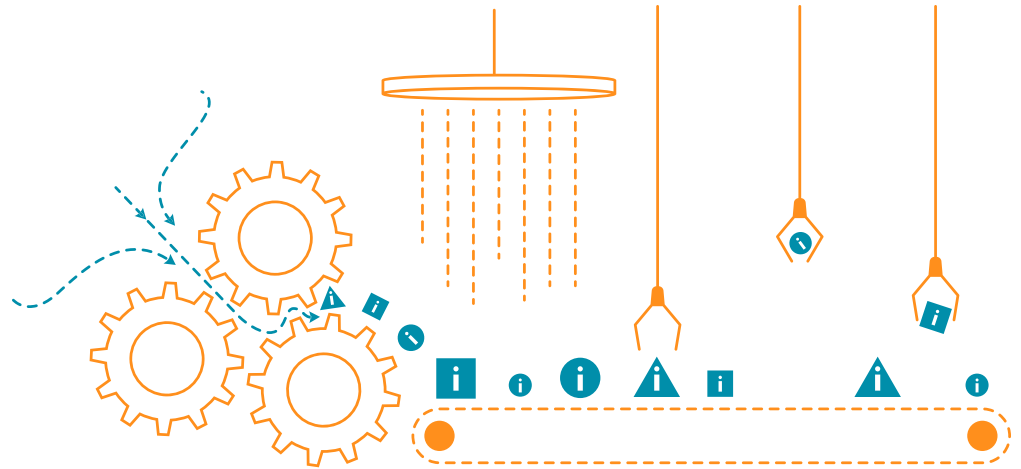
Can't reinvent the wheel

- Integrate into existing CI/CD
- Provide an incremental transition path
- Identify the opportunities with the biggest impact



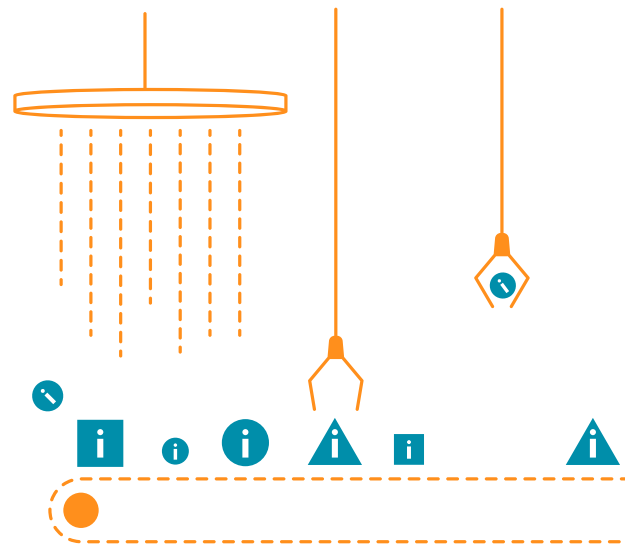


WHERE'S THE BEEF?



DEFINITELY WORTH IT FOR US

- 24/7 services
- Deploy whenever
- More reactive development and testing
- Experimentation becomes easy
- Real-time horizontal scaling
- Scale into an external cloud?



BUT IT'S ALSO ABOUT AWARENESS

- No one wanted it... because no one knew
- Identify and convert the people sitting on the resources
- Bad ass real use case demo
- Now everyone wants a piece
- So... Don't forget to sell

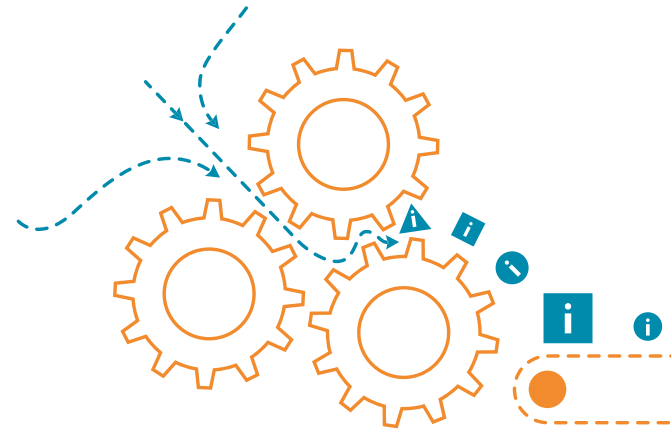


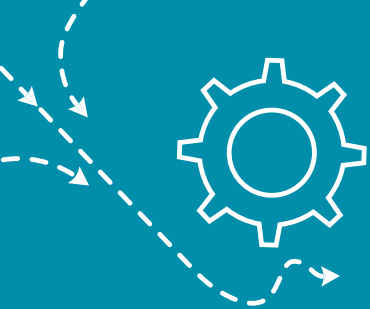
THE BIG STUFF IS YET TO COME

- The UC merger
- Getting rid of mainframes
- Nordic projects



THAT'S ALL FOLKS





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