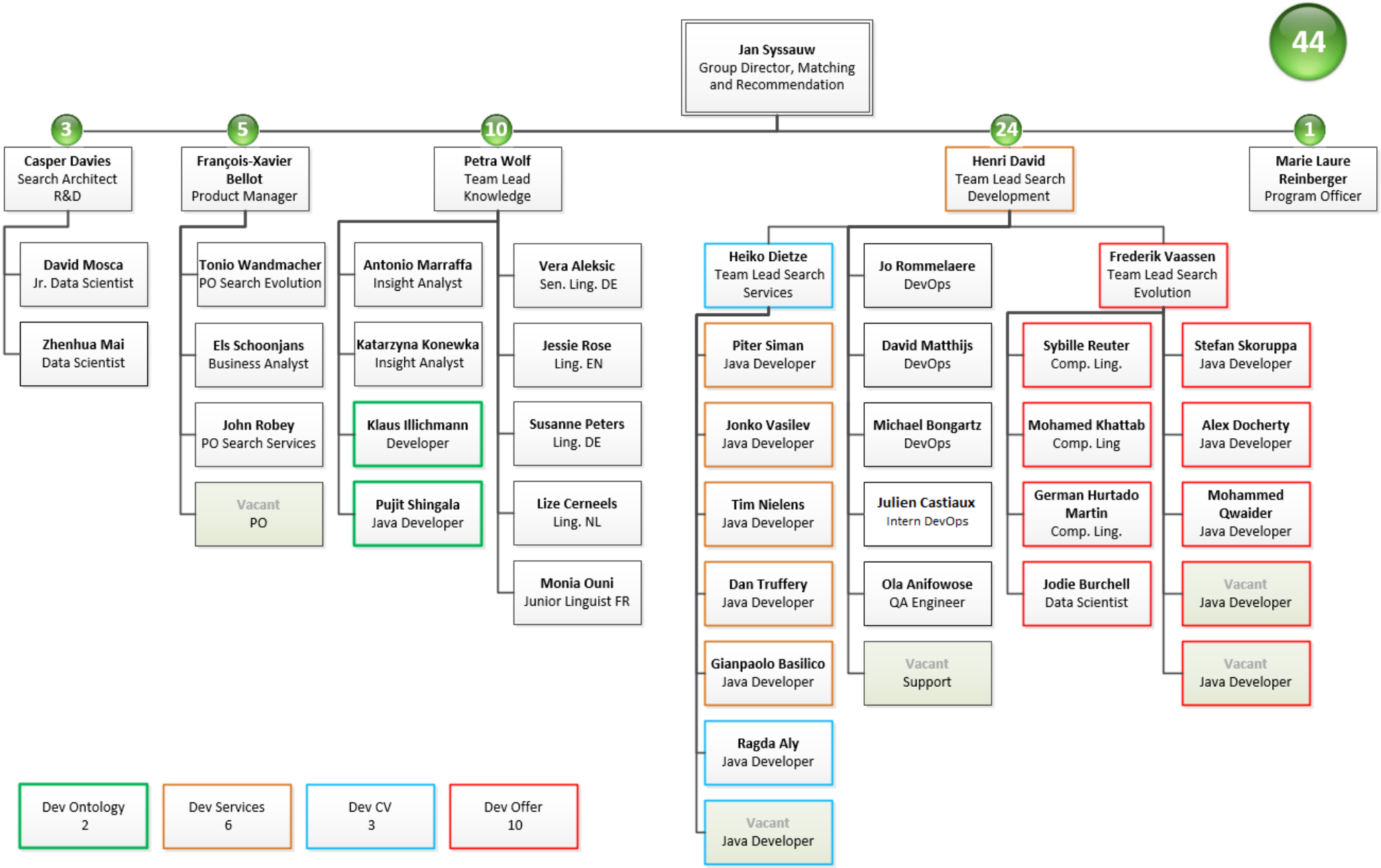
StepStone

StepStone

- Job board présent dans 21 pays
- Plus de 2,000 employés dont 170 en Belgique

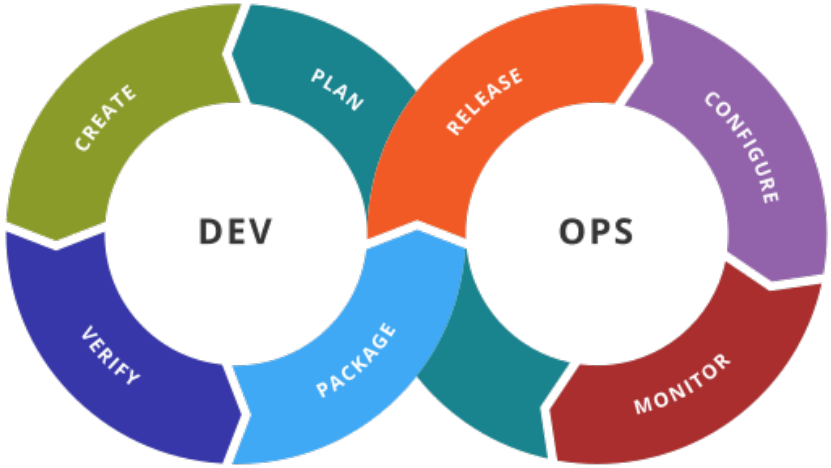
Search & Match

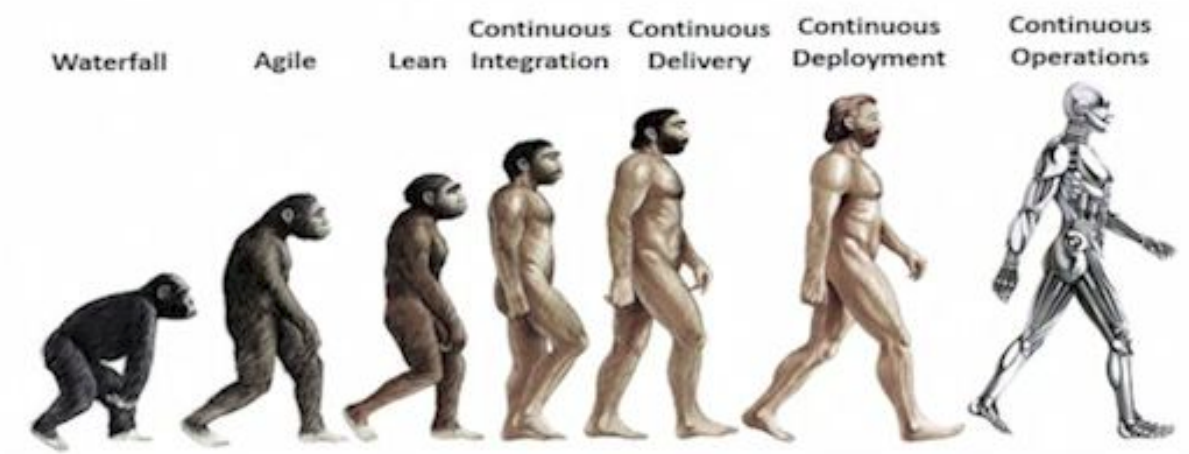
- Services IT back-end visant à faire correspondre des offres et des profils
- Équipe pluri-disciplinaire de 44 personnes réparties entre Bruxelles, Berlin et Munich


44
Jan Syssauw
Group Director, Matching and Recommendation
3
Casper Davies
Search Architect R&D
David Mosca
Jr. Data Scientist
Zhenhua Mai
Data Scientist
5
François-Xavier Bellot
Product Manager
Tonio Wandmacher
PO Search Evolution
Els Schoonjans
Business Analyst
John Robey
PO Search Services
Vacant
PO
10
Petra Wolf
Team Lead Knowledge
Antonio Marraffa
Insight Analyst
Katarzyna Konewka
Insight Analyst
Klaus Illichmann
Developer
Pujit Shingala
Java Developer
Vera Aleksic
Sen. Ling. DE
Jessie Rose
Ling. EN
Susanne Peters
Ling. DE
Lize Cerneels
Ling. NL
Monia Ouni
Junior Linguist FR
24
Henri David
Team Lead Search Development
Heiko Dietze
Team Lead Search Services
Piter Siman
Java Developer
Jonko Vasilev
Java Developer
Tim Nielens
Java Developer
Dan Truffery
Java Developer
Gianpaolo Basilico
Java Developer
Ragda Aly
Java Developer
Vacant
Java Developer
Jo Rommelaere
DevOps
David Matthijs
DevOps
Michael Bongartz
DevOps
Julien Castiaux
Intern DevOps
Ola Anifowose
QA Engineer
Vacant
Support
Frederik Vaassen
Team Lead Search Evolution
Sybille Reuter
Comp. Ling.
Mohamed Khattab
Comp. Ling
German Hurtado Martin
Comp. Ling.
Jodie Burchell
Data Scientist
Stefan Skoruppa
Java Developer
Alex Docherty
Java Developer
Mohammed Qwaider
Java Developer
Vacant
Java Developer
Vacant
Java Developer
1
Marie Laure Reinberger
Program Officer
Dev Ontology
2
Dev Services
6
Dev CV
3
Dev Offer
10

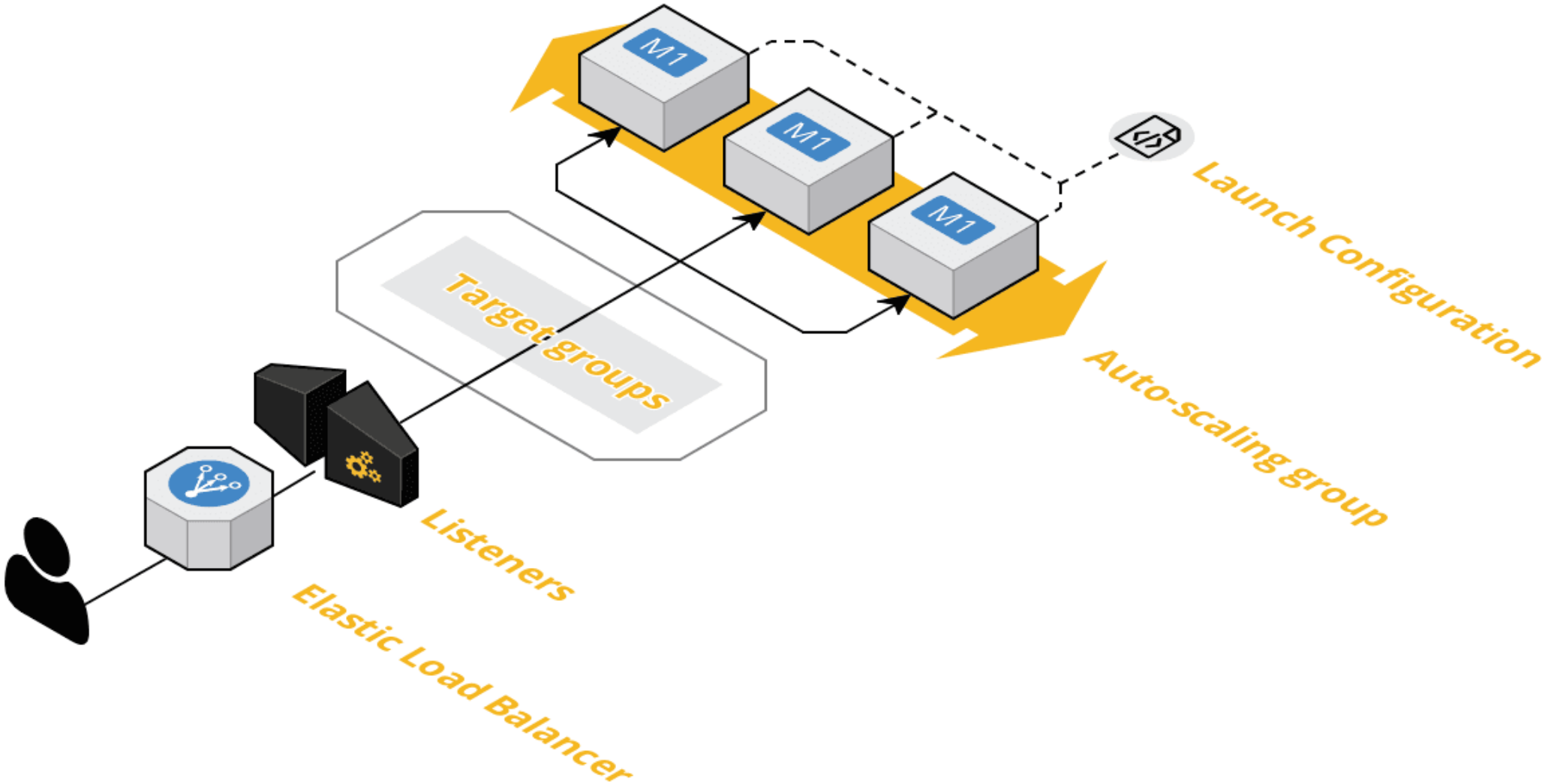
« DevOps »

- Expert AWS
- Administrateur Système
- Développeur



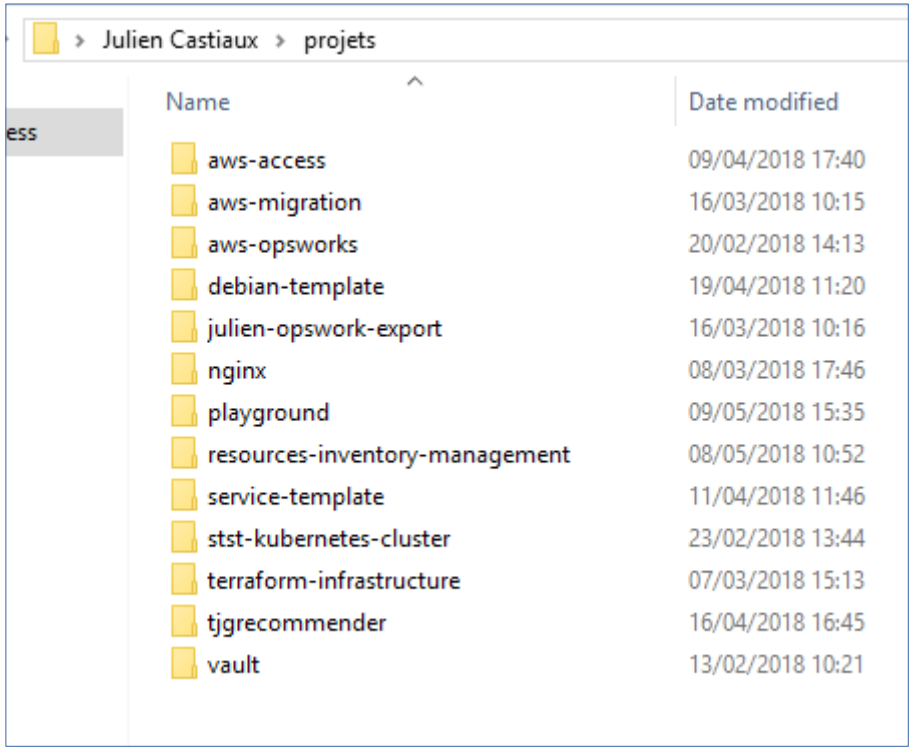


Stack « High Availability » d'AWS



Les projets

- Migration de Vault
- **Migration d'IJM**
- **Blue-Green**
- Rolling-Update v2
- Inventory Script
- Playground



Vault

- Logiciel de gestion des secrets centralisée
- LDAP → OTP → SSH

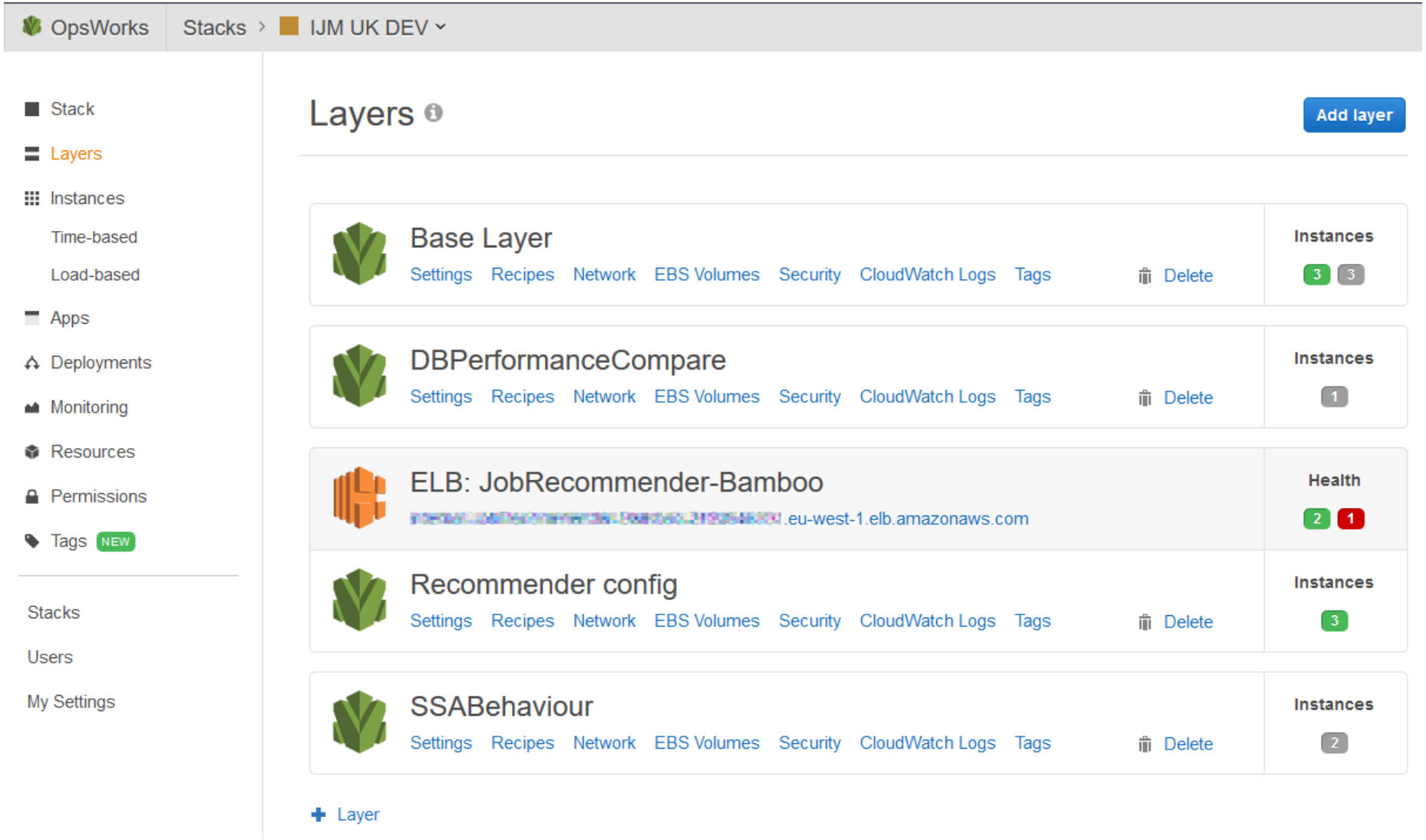
- Manuel → BootstrapVZ
- Dédié → Stack HA d'AWS
- SPOF → Clustering (Master / Slave)

IJM

- Instant Job Match – Propose des jobs par mail

- AWS OpsWork → BootstrapVZ
- CentOS init → Debian systemd
- 22 environnements → 17 standardisés
- Complexe (~700 fichiers) : Jeu de piste

IJM dans OpsWork



IJM dans Bamboo

Deployment project summary

Source build plan Search › IJM

Available artifacts jobrecommender, deploy-scripts

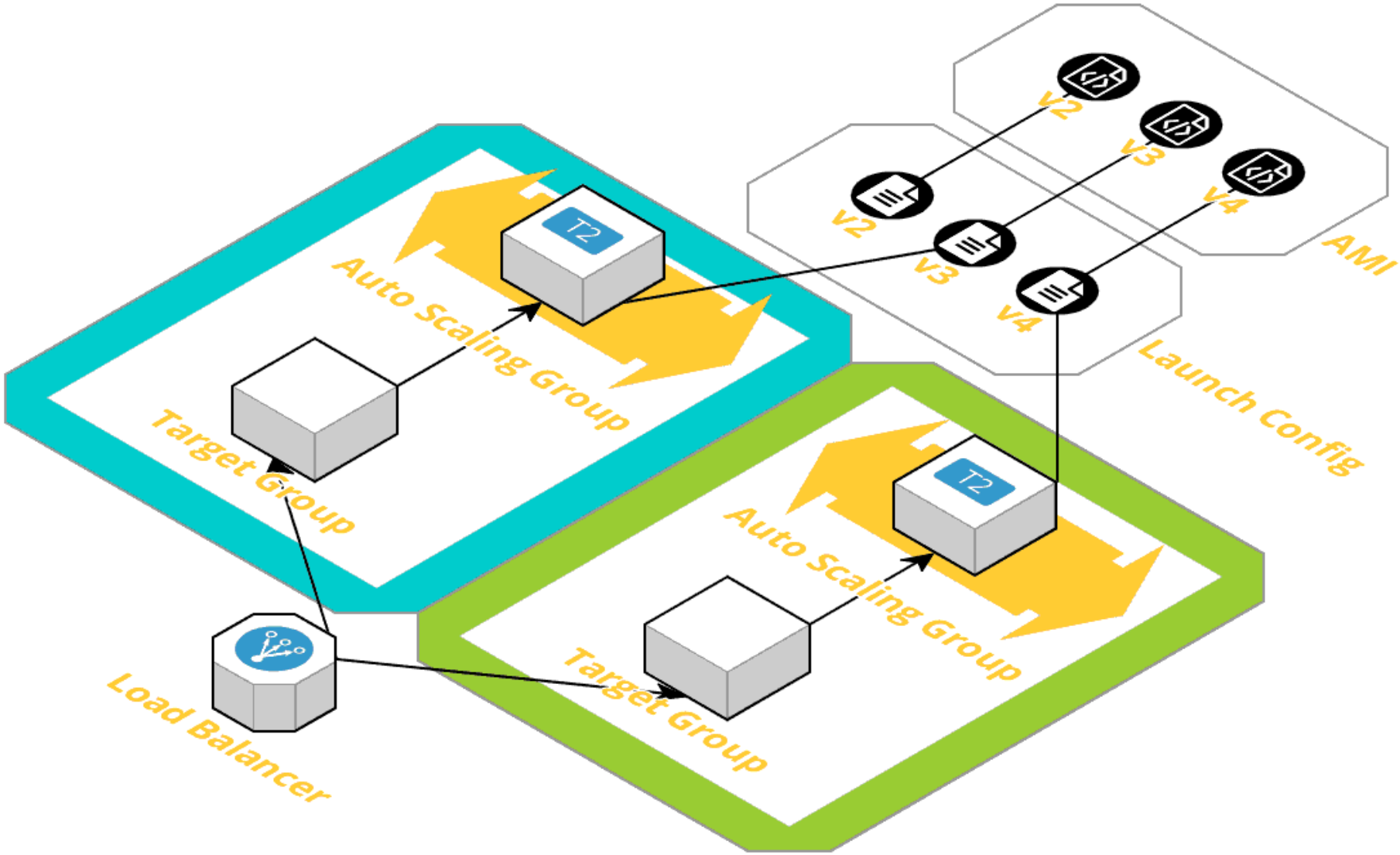
Environment	Release	Result	Completed	Actions
IE-S-SAON	release-32	Logs	17 Apr 2018 03:47 PM	
IE-A-SAON	release-1	Logs	09 Mar 2018 09:54 AM	
IE-L-SAON	release-1	Logs	09 Mar 2018 02:18 PM	
IE-A-UK	release-33	Logs	17 Apr 2018 03:52 PM	
IE-B-UK	release-1	Logs	09 Mar 2018 03:15 PM	
IE-L-UK	release-1	Logs	09 Mar 2018 02:32 PM	
DE-S-DEFAULT	release-28	Logs	16 Apr 2018 05:21 PM	
DE-A-DEFAULT	release-12	Logs	21 Mar 2018 10:59 AM	
DE-B-DEFAULT	release-1	Logs	09 Mar 2018 11:47 AM	
DE-L-DEFAULT	release-1	Logs	09 Mar 2018 12:22 PM	
DE-S-P2J	release-1	Logs	09 Mar 2018 10:27 AM	
DE-A-P2J	release-1	Logs	09 Mar 2018 11:19 AM	
DE-B-P2J	release-1	Logs	09 Mar 2018 12:06 PM	
DE-G-P2J	release-1	Logs	09 Mar 2018 01:48 PM	
DE-L-P2J	release-1	Logs	09 Mar 2018 01:53 PM	
IE-L-REC	release-1	Logs	09 Mar 2018 03:02 PM	
IE-L-PLUS	release-1	Logs	09 Mar 2018 03:12 PM	

Blue-green

- Rolling-Update lent pour certains projets
- Besoin d’une possibilité de rollback

- Mise en place de « Blue-green deployment »
  - Analyse
  - Développement
  - Vérification
  - Documentation

Blue-green


AMI
v2
v3
v4
Launch Config
v2
v3
v4
Auto Scaling Group
T2
Target Group
Auto Scaling Group
T2
Target Group
Load Balancer

Blue-green

- Logique de déploiement par défaut
- Utilisé par plusieurs services critiques
  - NGINX (40% du trafic search, ~380Gbps)
  - IJM
  - AWS-Access

- Mais quelques petits soucis…
  - AWS-Access → Auto-rollback
  - NGINX → Meilleur suivi

IJM en Blue-green

- 51 environnements !

Deployment project summary

Source build plan Search › IJM

Available artifacts jobrecommender, deploy-scripts

Environment	Release	Result	Completed	Actions
IE-S-SAON-deploy		Never deployed		
IE-S-SAON-switch		Never deployed		
IE-S-SAON-scaledown		Never deployed		
IE-A-SAON-deploy		Never deployed		
IE-A-SAON-switch		Never deployed		
IE-A-SAON-scaledown		Never deployed		
IE-L-SAON-deploy		Never deployed		
IE-L-SAON-switch		Never deployed		
IE-L-SAON-scaledown		Never deployed		
IE-A-UK-deploy		Never deployed		
IE-A-UK-switch		Never deployed		
IE-A-UK-scaledown		Never deployed		
IE-B-UK-deploy		Never deployed		
IE-B-UK-switch		Never deployed		
IE-B-UK-scaledown		Never deployed		
IE-L-UK-deploy		Never deployed		
IE-L-UK-switch		Never deployed		
IE-L-UK-scaledown		Never deployed		
IE-L-REC-deploy		Never deployed		
IE-L-REC-switch		Never deployed		
IE-L-REC-scaledown		Never deployed		
IE-L-PLUS-deploy		Never deployed		
IE-L-PLUS-switch		Never deployed		
IE-L-PLUS-scaledown		Never deployed		
DE-S-DEFAULT-deploy		Never deployed		
DE-S-DEFAULT-switch		Never deployed		
DE-S-DEFAULT-scaledown		Never deployed		
DE-A-DEFAULT-deploy		Never deployed		
DE-A-DEFAULT-switch		Never deployed		
DE-A-DEFAULT-scaledown		Never deployed		
DE-B-DEFAULT-deploy		Never deployed		
DE-B-DEFAULT-switch		Never deployed		
DE-B-DEFAULT-scaledown		Never deployed		
DE-L-DEFAULT-deploy		Never deployed		
DE-L-DEFAULT-switch		Never deployed		
DE-L-DEFAULT-scaledown		Never deployed		
DE-S-P2J-deploy		Never deployed		
DE-S-P2J-switch		Never deployed		
DE-S-P2J-scaledown		Never deployed		
DE-A-P2J-deploy		Never deployed		
DE-A-P2J-switch		Never deployed		

Rolling-Update v2

- Boto3 + Auto-rollback

Inventory Script

- Déclenchement sur changement

Playground

- Terrain de jeu pour les DevOps
- Nous permet de tester le comportement de NGINX et d’AWS

Merci !

- À StepStone
  - Aux DevOps
  - Au reste de l’équipe
  - Aux employés de Bruxelles
- À l’EPHEC
  - À ceux qui ont rendu cette aventure possible
  - À toute l’équipe professorale
- À vous
  - Pour m’avoir écouté jusqu’au bout