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Gate

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CONTAINERS TODAY

The Hague

Powered by

Amazic
Market Development

**Not because we can,
but because we need to**

and what containerization has brought us

T-Mobile



TELE2

Introduction



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Background

2017/2018 goals:

Become a Digital First Fun Rebel mobile challenger in Consumer Mobile

Transform the IT/NT landscape to improve reliability, agility and reduce run cost

Transform from being 'cheap' to innovative organization

Happiest customers and most engaged employees

DIGITAL FIRST
CUSTOMER EXPERIENCE

6226
Base stations

6,13MLN - Mobile
600K - Fixed

24,5% - Mobile
6% - Fixed

T-Mobile

Key assets :

- Best 4G Mobile national network
- Nation Wide fiber Network

Brands:

T-Mobile Ben TELE2

Business lines :

- Consumer
- Business2business
- Wholesale

Offerings:

- Mobile Voice & broadband
- Fixed Voice & broadband
- B2B/Wholesale Services

Market :



+ MVNO's

The challenges that we were facing

- Demand from development teams vs Infra supply capacity
- Infra & Software delivery times were too long
- We were working agile, but automation was lacking
- Legacy landscape
- 3 week release cycles

Why container technology ?

- Provides a logical base for microservices architecture
- Means to improve quality
- Increases speed / allows for faster adaptation
- Changes the way we think about Infra & SW development
- Cool new technology !

Our Docker journey

Apr. 2017 – Digital First Initiative was launched

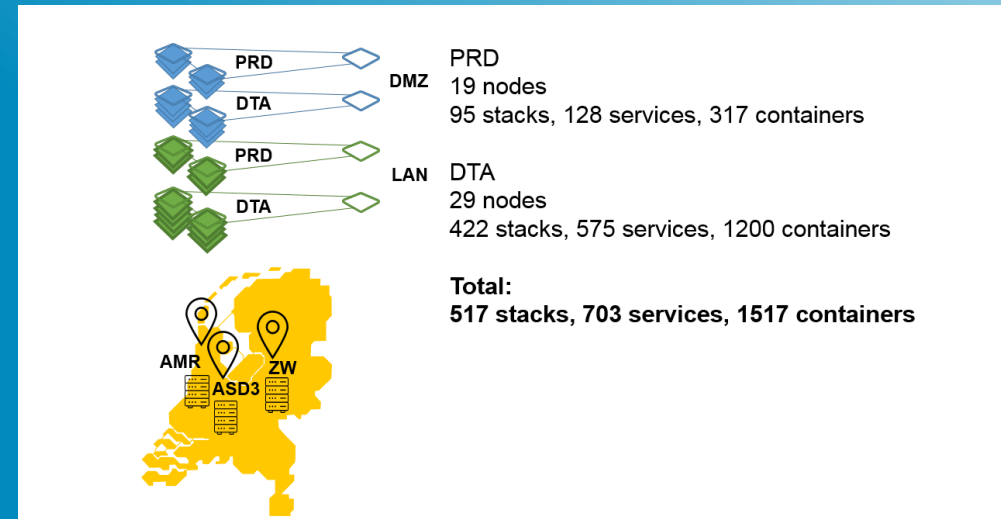
Jun. 2017 - Start of POC with Development

Mid Jul. 2017 - Infrastructure design ready, start implementation

Sep. 2017 - 1st Cluster ready and delivered

Dec. 5th 2017 - New Tele2 Webshop went live

~ 6 months



2018 until today - more and more applications have been deployed to the container platform

That sounds easy.....

Well we have had our fair share of challenges;-)

- Resourcing
- Old school thinking – Change is difficult
- Technical challenges

How did we make it a success ?

Project

- Design and plan first
- Don't do everything yourself
- Use a backlog
- Room for failure !
- Focus !

- Break old habits
- Work in small core team
- Go big or go home....;-)
- Communicate

Technical

- Show it / Help dev teams
- Provide templates for guidance
- Clear policy on base images

- Align on & enforce ownership
- Proactive onboarding process
- Docker review board

Organization

Process

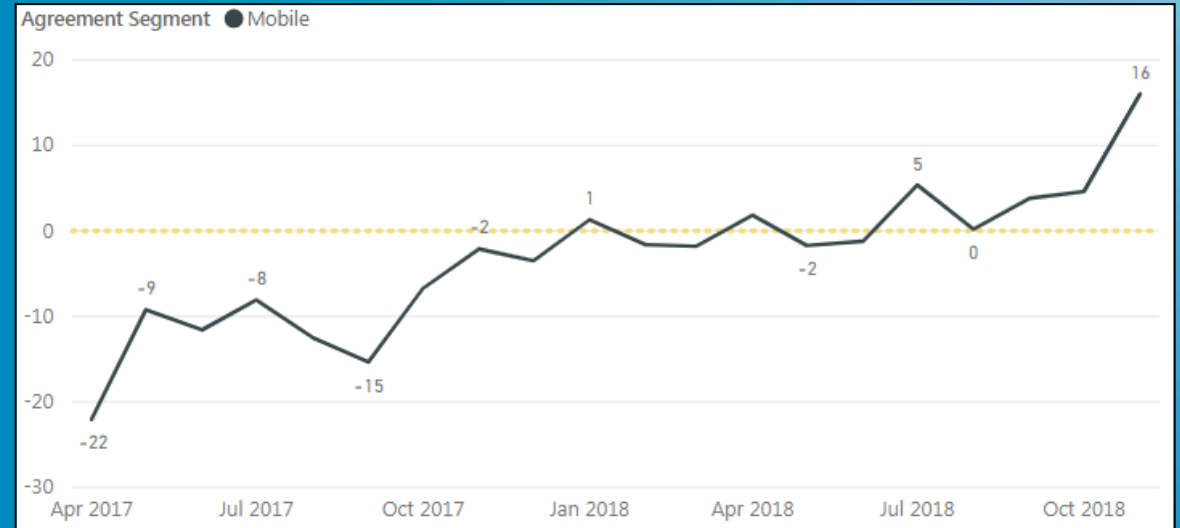


Our rewards

- **Docker has sparked change & accelerated transformation**
 - Forced us to rethink current delivery model & cooperation with our internal customers
 - Creation of new role / dedicated resources in Infra team
 - Infra in an advisory role
- **Shorter delivery times, more freedom and better capabilities for developers**
 - From 3 weekly deployments to daily / continuous
 - No dependencies on Infra team / Infra delivers a platform
 - Easier testing
- **DevOps**
 - The Container platform provides a natural way to work more closely together
 - The use of containers has helped to reduce silo thinking

Furthermore

- **Quality improvements**
 - NPS has gone up quite significantly
- **Employee engagement improved**
 - Container technology has help us to find and retain talent
 - Provided base for more challenging climate to work in.



What do colleagues think of our container platform ?

‘Docker is the foundation that makes versioning stronger, by only releasing that specific microservice, and measuring the performance and load per service.’

ENABLER

‘Het denken vanuit containers maakt het makkelijker om functionaliteit gescheiden te houden. In plaats van grote monolieten met veel ‘entangled code’ ontstaat er een architectuur waarin 100% test automatisering & CI/CD mogelijk wordt.’

MICROSERVICES & AUTOMATION

‘Door alles meteen goed met monitoring, logging en test automatisering aan te pakken hebben we de kwaliteit van de applicatie enorm verhoogd. De regressie test is van 3 dagen naar 30 minuten gegaan.’

INCREASE SPEED & QUALITY

What are our plans going forward ?

- Continue to onboard new workloads on our docker platform
- Have microservice architecture & containers more profound on the agenda
- Promote the container capabilities within the new organization
- Extend our container platform to the cloud (scalability, flexibility)
- Improve and innovate current platform

Thank you !



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