

Shifting Left with DevOps
2019

Agenda

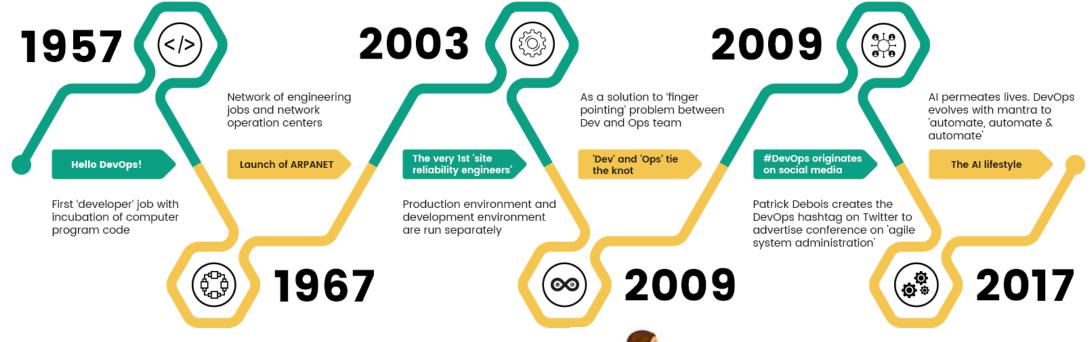




- History
- The challenge we have
- End Game
- DevOps Transformation Focus Areas
 - People: Can people change?
 - Process: Who needs a process
 - Process: Continuous Release Process
 - Process: Automated Pipelines
 - Technology: What's in a pipeline
 - Security
 - Technology: BizDevOps Tools
- Nedbank Examples
 - Multi-stack Deployments
 - XL Release
- Our journey so far
- What's next



History



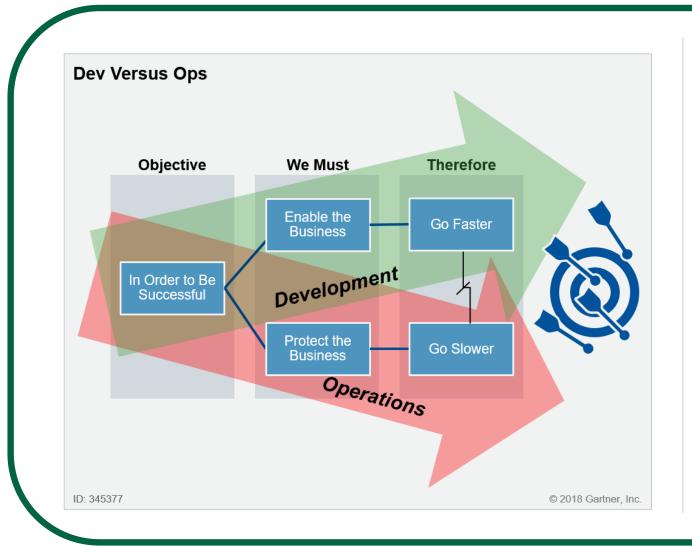
"Automating the automation"







The challenge we have



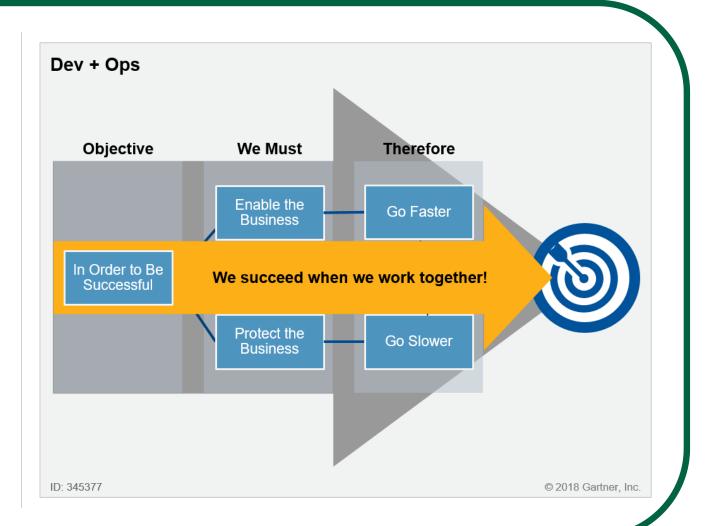
- Security isn't "Left"
- Disparate ways of deploying software
- No release co-ordination
- Silos lack of collaboration
- Conflict of interest
- Immature engineering practices
- Quality issues
- Instability of environments
- Chaos





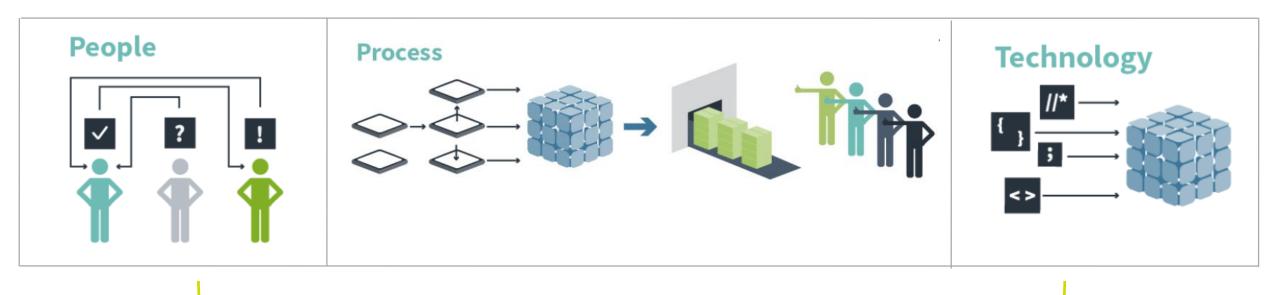
End Game

- Frequent and quality deployments
- Faster time to market Delight our customers
- Improved release co-ordination
- Mature Engineering practices
- Collaboration between teams
- Creating cross functional teams
- Removing constraints and opening up bottlenecks
- Creating feedback loops
- Improving flow of code
- Accelerated app testing
- 2020 strategy: Digital first, first in digital





DevOps Transformation – Focus Areas



Culture & Sharing | Automation & Tooling | Measurement & Monitoring



People: Can people change?

- "Culture eats strategy for breakfast"
- Nedbanker x.0 constantly evolving
- "Yes, we can"





Cul·ture noun \'kəl-chər\

The beliefs, customs, arts, etc., of a particular society, group, place or time A particular society that has its own beliefs, ways of life, are etc. A way of thinking, behaving, or working that exists in a place or organization (such as a business)



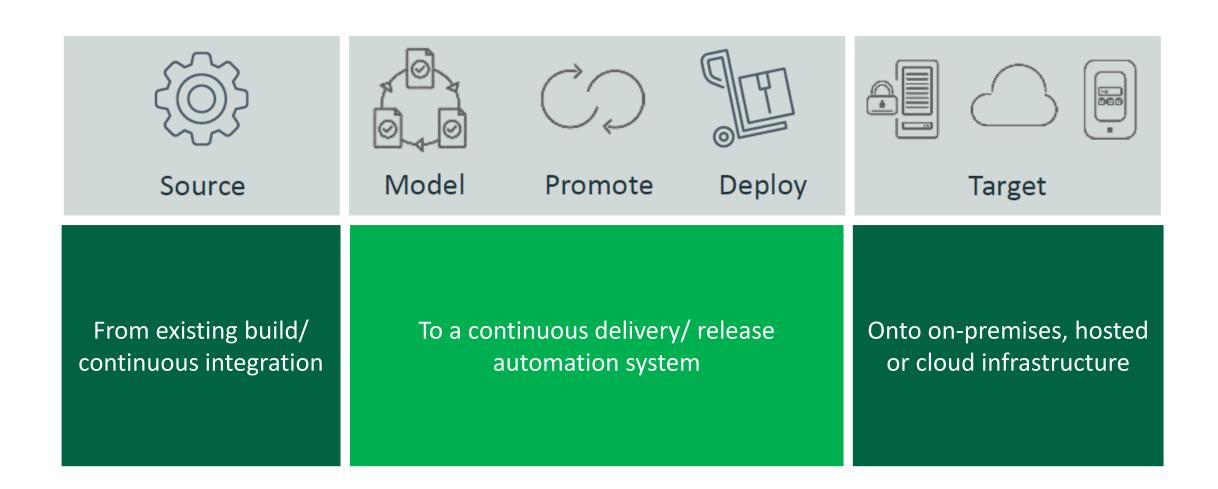
Process: Who needs a process

- You! You need a process
- Value stream mapping
- Gaps and inefficiencies
- How Nedbank is implementing DevOps Internal processes
- Focus area: Delighting our customers





Process: Continuous Release Process

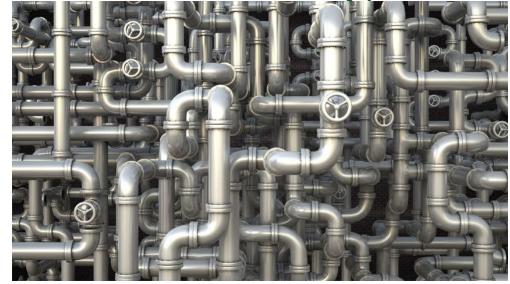




Process: Automated Pipelines

• A deployment pipeline is an automated manifestation of your process for getting software from version control into the hands of your users. Every change to your

software goes
process involving
through multiple
deployment. The
models this
incarnation in a
integration and
management tool



through a complex
building the software
stages of testing and
deployment pipeline
process, and its
continuous
release
is what allows you to

see and control the progress of each change as it moves from version control through various sets of tests and deployments to release to users.



Technology: What's in a pipeline



Predictability Repeatability Efficiency Consistency Quality Velocity



Security

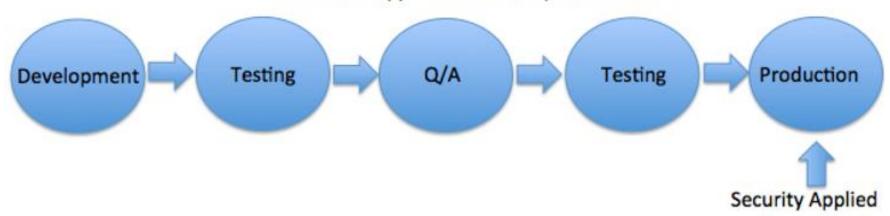
• "The days of stand-alone security teams isolated from the real process of development are coming to an end. Paraphrasing Caroline Wong, "Security needs to be invited to the party, not perceived as a goon standing at the front door denying admission". With DevSecOps, security is now part of the team." -Epic failures in DevSecOps



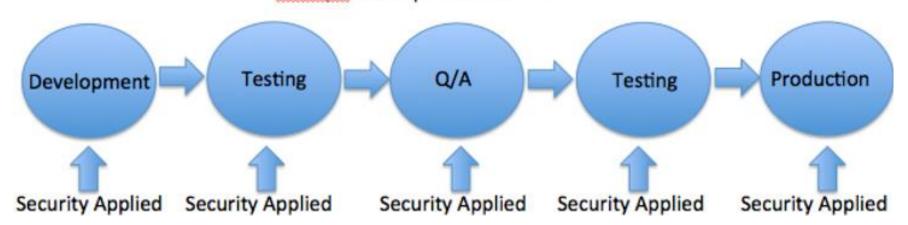


Applying Security to DevOps



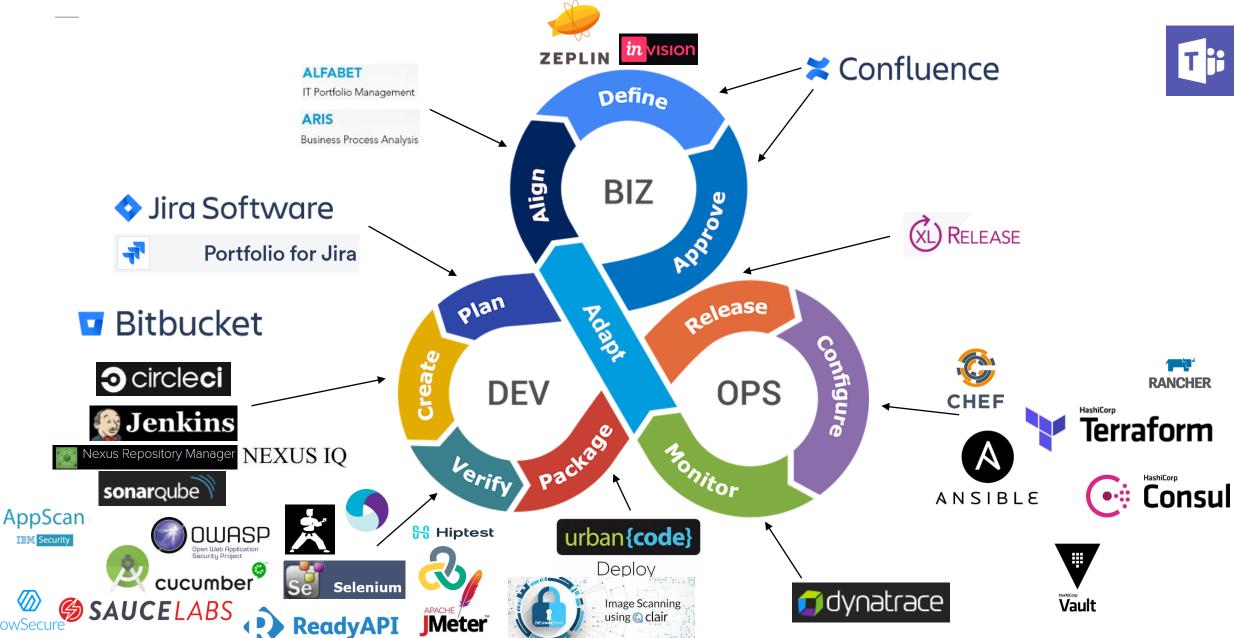


DevOps Development Process



Technology: BizDevOps Tools





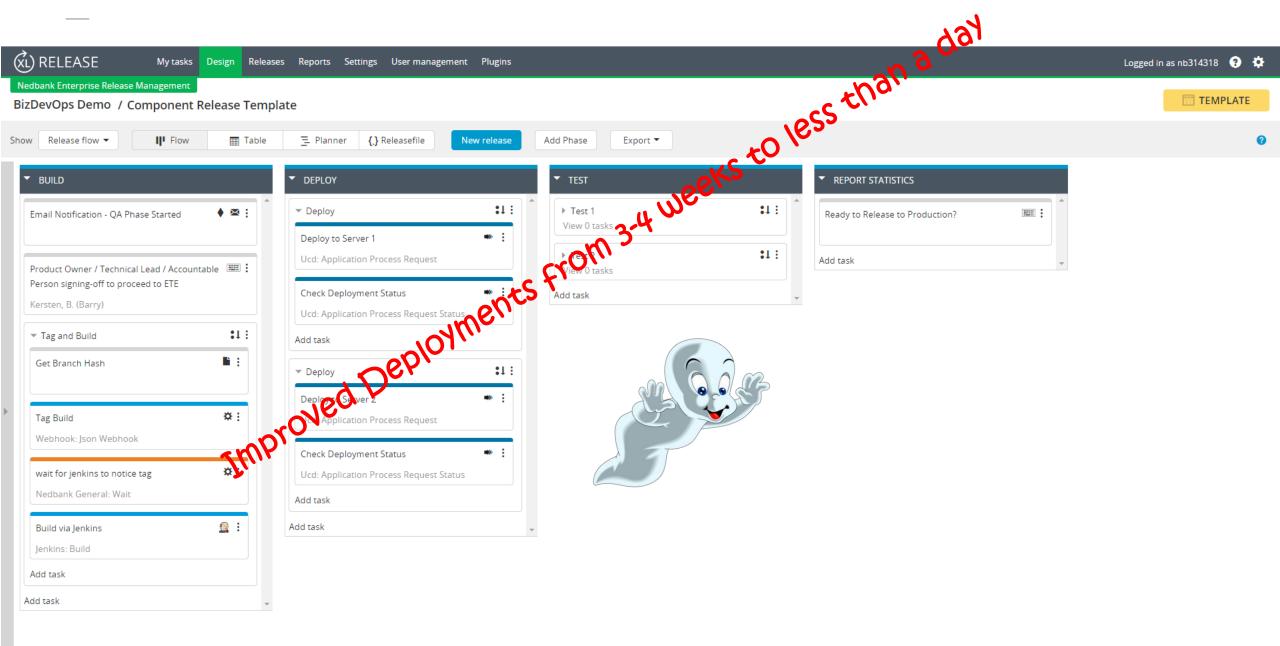


Nedbank Examples



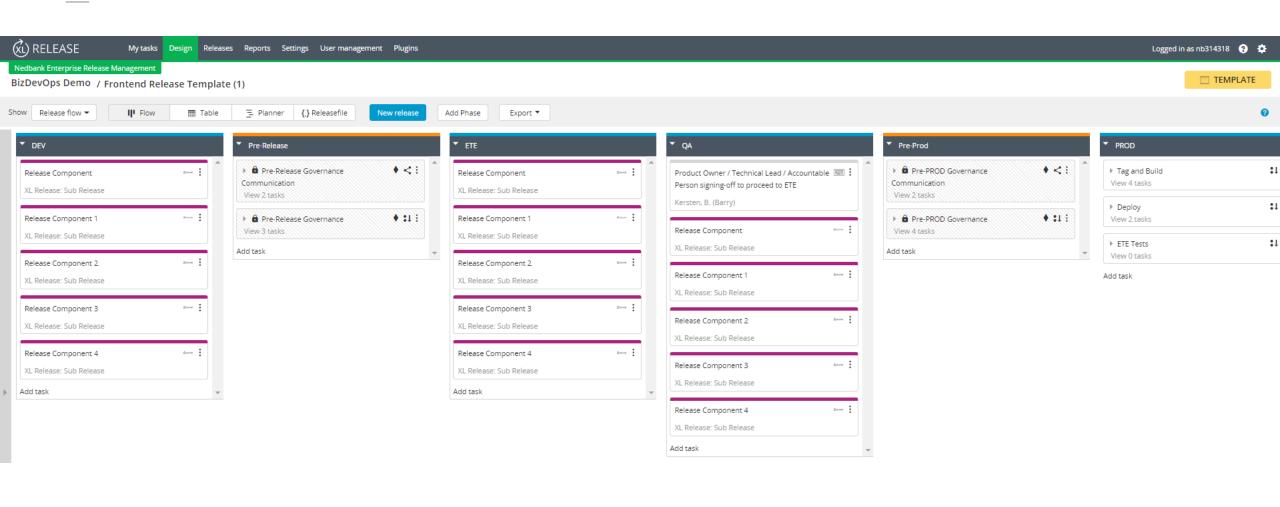
Nedbank Examples: Multi-stack Deployments

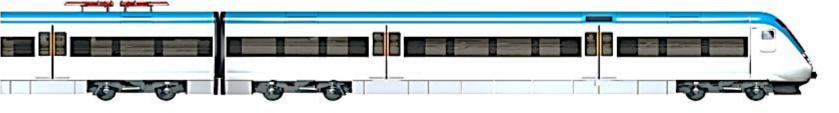




Nedbank Examples: Multi-stack Deployments







Nedbank Examples: XL Release

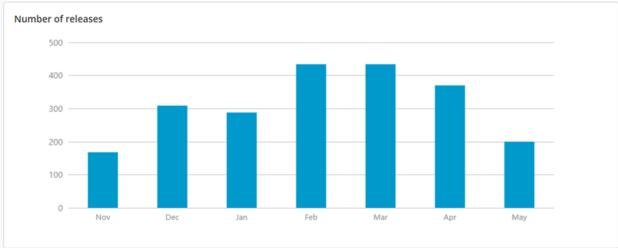


• Completed Releases: 2203

• Avg. Release Duration: 2d 3h 1m

• Task Efficiency: 31692 executed









Where to next?

