The DevOps Journey in an Enterprise

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DEVOPS ENTERPRISE SUMMIT





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Try to make engineers much more productive than I've ever been









Startup

ENTERPRISE









Manual Deployments

Prior to 2015, me and other engineers went into the office for quarterly/monthly manual releases.

Not DevOps

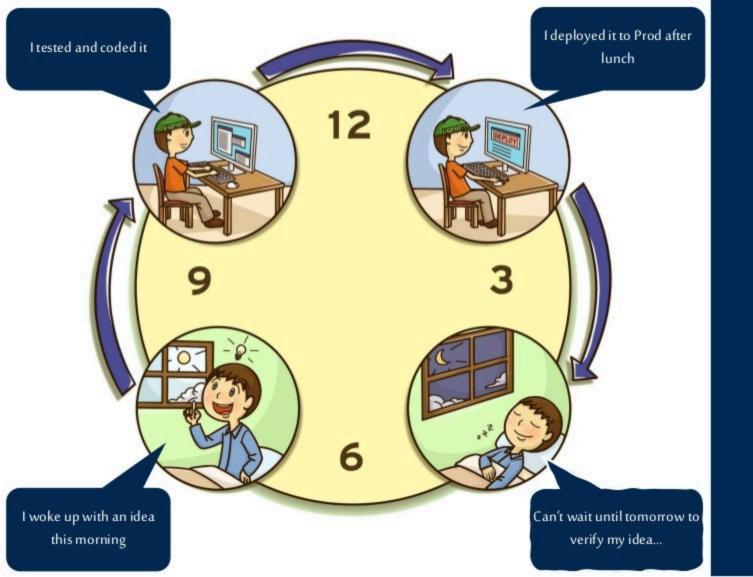
A non-DevOps situation where Dev blame Ops for being slow and Ops blame Dev for being stupid

Me until 2014



Me Today







Vision

Idea to Prod the same day





Continuous Integration

- ∀ Version Everything*
- Automation
- Trunk based development
- Olaim over Blame

*except secrets

Deploy frequency

Scania Connected Services

2011

Software projects

- 2-3 in parallel
- · 3 deploys per year

2015

Agile teams

12 deploys per year

Continuous Integration

2016

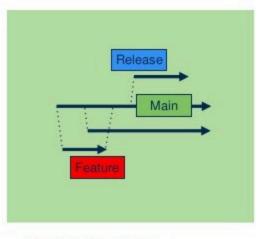


Autonomous Teams

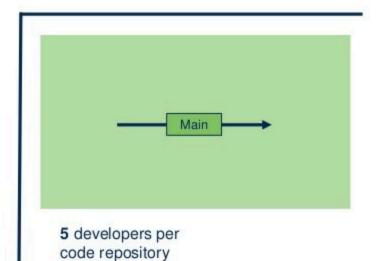
- Continuous Delivery
- 30+ deploys per day
- 1. Microservice Architecture
- Challenged and improved infra related processes
- Trust and courage from management



Branch strategies







code repository



Autonomous teams

Autonomous teams can have their own pace without affecting other.





Autonomous teams

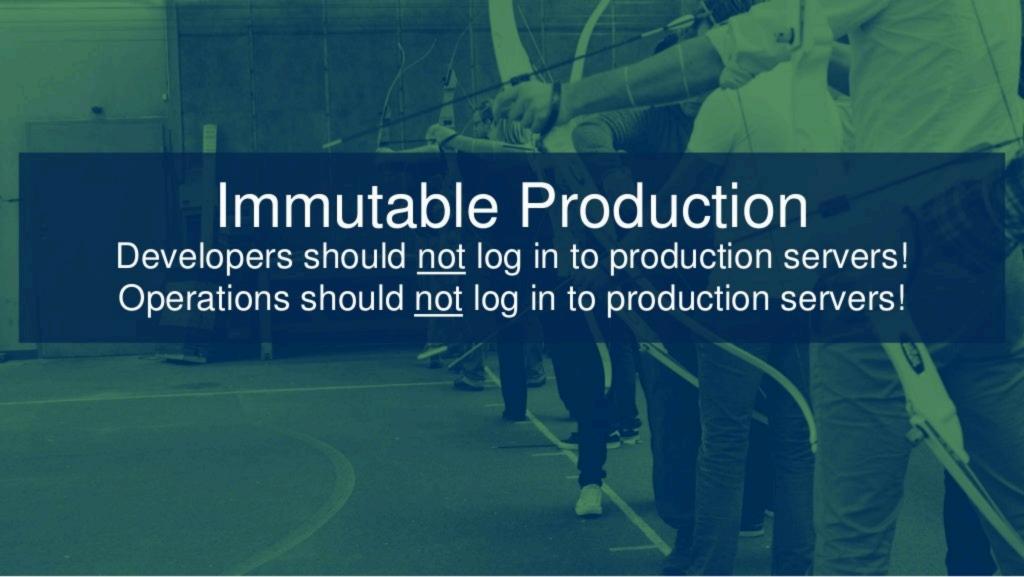
With independent teams, all teams are not affected if one team experience problems.



Zero Downtime

Enables engineers to be present when their code goes live





Remove Handovers

Avoid sub optimize in organizational silos

Deploy != Release

Development Team Concern Business Decision







Tilda 4 y/o releasing to production

Tilda 4 releases the new Fleet Management Portal for Great Britain market (2016-09-01).



Affinity

Maintaining infrastructure is very complex







Affinity

Maintaining different state of code is very complex



The shift to Infrastructure as Code



```
Resources:
 ElasticLoadBalancer:
    Type: AWS::ElasticLoadBalancing::LoadBalancer
   Properties:
     SecurityGroups:
       - !Ref LoadBalancerSecurityGroup
     Subnets:
       - !Importvalue: PublicSubnet1A
       - !ImportValue: PublicSubnet1B
     Listeners:
       LoadBalancerPort: 443
       InstancePort: 8080
       Protocol: HTTPS
       SSLCertificateId: !ImportValue CertificateId
     HealthCheck:
       Target: 'HTTP:80/'
       HealtyThreshold: 2
       UnhealtyThreshold: 3
       Interval: 20
       Timeout: 10
```

Cloud Security Team - Principles

Cloud Native Security



Gamifying Security



Share failures



Ubiquitous encryption



Get out from the cave



Don't just say "NO"





we've got this.

Here is how YOU can help...



Here is how YOU can help...



https://devops.vision @anderslundsgard



we've got this. trEtton37

