Devops Skåne

Lunds University Lunch Seminar 2018-02-20

Thanks to our sponsor, Praqma, for the sandwiches.

8 offices Denmark, Norway & Sweden

Consulting Continuous Delivery & DevOps

Community Conferences, meet-ups & hackathons

DevOps Skåne - introduction

We are Karen, Fredrik and Albert and even though we work in different companies, we all work with these things in our daily work.

We improve the SW development flow and the people around it.

Agenda for today

- Problems DevOps and CoDe can help with
- Google and Kubernetes
- Continuous Delivery
- Modern SW development

What problems can DevOps/CoDe help with?

Mindset: Separation of responsibilities, focus on improving parts instead of the products, fear of losing power and control, etc.

Manual labour: you can't guarantee that you can do something exactly in the same way twice.

We have a lot problems in the industry, knowing them and facing them before you became a part of the problem will improve you

Highly available infrastructure

k8s Google story

Keep everything working at every moment

Trace failure - Prometheus

Redundancy and scalability keeps everything working

Netflix - chaos monkey - randomly kill random stuff

Continuous upgrading without downtime

Google

Chaos Monkey

You Don't Choose Chaos Monkey...
Chaos Monkey Chooses You

Chaos Kong

UPGRADE

Continuous Delivery - CoDe

Facebook version

Development pipelines

Getting customer feedback and push out to all user.

Continuous ... Integration/Delivery/Deployment?

	Novice	Beginner	Intermediate	Advanced	Expert
Build	Automated builds	Artifacts are managed	Automated release notes	Full traceability	Delivery pipeline
Test	Unit testing, mocks, stubs and proxies	Automated functional tests	Maintain test data	Adaptive test suites	Test in production
Version Control	Commits are tied to tasks	Release train branching strategy	Version numbers matter	Use distributed VCS	Pristine integration branch
DevOps	One Team	Automated deployment	Access to production-like environments	Infrastructure as code	Live monitoring and feedback
Architecture & Design	Code metrics	Testable code	Dependencies are managed	Individually releasable components	Full audit trail in production
Organization & Culture	Agile process	Buy-in from management	Tasks are groomed	Designated roles	Explicit knowledge transfer

Modern software development - 4realz!

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Enabling DevOps and CoDe requires a different mindset

Modern developers has to know more tools

Speaking for myself, DevOps communities would have been nice

DevOps Skåne - the meetups

The meetups are a deep dive in these topics.

Meetup: https://www.meetup.com/devopskane

Github: https://github.com/devopskane

Next planned meetups:
9/4 - Topic to be decided
7/5 - Jenkins and pipelines