

## *Extreme Automation - DevOps Masterclass*

### *Kort om undervisningen*

DevOps is a growing movement that encourages closer collaboration of developers and system operations to help business goals to be achieved efficiently and on time. Software development and infrastructure scaling are very fast-paced nowadays. That brings a necessity of larger automation, measurement and information sharing for all involved processes.

This 2-day workshop focuses on solving challenges that organisations face when implementing DevOps initiatives. It introduces principles of DevOps and tools that help reach full automation of infrastructure provisioning and software delivery. Theoretical background as well as practical hands-on examples of tools like Vagrant, Docker, AWS and others are given during this workshop.

### *Indhold*

#### Introduction to DevOps

- The story
- Problems
- Main principles

#### Automation is the key

- Why to automate?
- What to automate?
- How to automate?
- When to not automate?
- Automation arguments
- Mathematical models
- Process automation

#### Continuous X

- Continuous Integration
- Continuous Deployment
- Continuous Delivery

#### Configuration management

- Metadata management
- Maturity model

#### Infrastructure automation

- Managing environments
- Developer's machine
- From development to production
- Infrastructure scaling

## Cloud infrastructure

- Public clouds
- Private clouds
- Containerization

## Tooling

- Local development
- Infrastructure connectivity
- Infrastructure provisioning
- Infrastructure testing
- Infrastructure monitoring

## Lab work

- Vagrant
- Packer
- Docker
- AWS
- Bash/Sshoogr/Fabric
- Puppet/Chef
- Jenkins
- ELK

## *Forudsætninger*

This course is directed at participants with at least one year real life experience working with Agile methods and insights in the basics of DevOps.

## *Målgruppe*

Developers, software architects, technical project managers, system administrators.

## *Efter kurset kan deltageren*

- Understand principles behind DevOps
- Understand principles behind effective configuration management
- Use provisioning tools (Puppet, Chef or Ansible) to configure infrastructure
- Use virtualization tools like VirtualBox, Vagrant, Docker and AWS EC2

## *Kommende afholdelsesdatoer*

Ingen planlagte datoer, anvend kontaktinformationerne nedenfor.

Oplysning om yderligere afholdelser findes på vores [hjemmeside](#). Andre spørgsmål besvares meget gerne ved brug af vores [kontaktformular](#) eller på telefon (+45) 33 861 861