

# Welcome!

by Jan Dittberner (Infrastructure team lead)

# Infrastructure Introduction

- CACert infrastructure
- Critical Team vs. Infrastructure Team
- Systems
- Responsibilities
- Skills
- Q&A

## CAcert infrastructure

- Hosted on dedicated hardware in a BIT datacenter in Ede (Netherlands)
- Own switches and routers
- Separation between CA operations (critical) and community infrastructure (non-critical)

## Critical team vs. Infrastructure team

### Critical team

- Management of Signer
- Web DB (www.cacert.org / secure.cacert.org)
- DNS
- Router, Switch, ILO access
- Supported by access engineers

### Infrastructure team

- All community and organizational systems
- Blog, Issue tracking, E-Mail, Mailinglists, Version Control, Development systems, ...

<https://infradocs.cacert.org/systems.html>

## Infrastructure systems

- Running on one dedicated machine
- All systems in LXC containers on a Debian Host
- Most systems are managed via Puppet
- Monitoring is done via Icinga 2 (old systems via nrpe, newer once using Icinga 2 agents)
- Access via ssh (public key authentication), permissions via sudo

## Infrastructure team responsibilities

- Maintenance of the Operating system and applications
- React to issues from monitoring and our users
- Evaluation of new services
- Work together with the critical team (DNS, Infrastructure changes, ...)
- Automation and improvements

## Skills needed

Required: basic Linux administration, ssh, \$EDITOR, English,  
Willingness to communicate

Should be learned: Issue tracking, Log analysis, ReStructuredText  
documentation, IP networking, Debian package management,  
Systemd, Git (basics)

Depending on task: Ansible, Puppet, Go, PHP, Python, Debian  
packaging, LXC

## Q&A

