



Berner Fachhochschule  
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## Container Future

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netstyle.ch GmbH (Terrassenweg 18, Bern)

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# Overview

- ▶ Current Situation
- ▶ Problem
- ▶ Solution

## Current Situation

# Cgroups, Namespaces, and Container

- ▶ Cgroups and Namespaces make up modern Linux systems
- ▶ Cgroups and Namespaces are mainline for almost all current distributions
- ▶ Container rule the cloud
- ▶ Container are devops/agile/\$whatever for System Administrators

# Problem

# LXC

## **„Good“**

- ▶ LXC works more or less upto wheezy
- ▶ LXC requires quite a few hacks to work

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## **„Ugly“**

- ▶ Cgmanager
- ▶ lxcfs



# Host System

/bin  
/dev  
/etc  
/lib  
/proc  
/sys  
/usr  
[...]

# Container

/bin  
/dev  
/etc  
/lib  
/proc  
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**cgmanager**  
**lxcfs**

# Solution

# systemd-nspawn

## **...but why not just use systemd for everything?**

- ▶ systemd-nspawn is chroot on steroids

## **Needs proper system integration**

- ▶ Demo: <http://open-infrastructure.net/container-tools>

Thank You for Your Attention.

♥ Source Code is freely available

```
git clone git://git.bfh.ch/git/staff/bad9/other/talks.git
```