



Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences

Ceph and OpenStack for LFE

ITS Meeting

Wednesday, 17th June 2015 11:00-12:00

BFH – Conference Room C.O.R.A. (Dammweg 3, 1. 1st Floor, Bern)

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IT System Engineer, Infrastructure Team

Overview

▶ Introduction

▶ Ceph

▶ OpenStack

▶ Discussion

Introduction

Some Observations...

- ▶ we completed the centralization of the main IT
- ▶ some departments are still running their own, even for some „basic“ services

Some Observations...

- ▶ we completed the centralization of the main IT
- ▶ some departments are still running their own, even for some „basic“ services
- ▶ growing demand in cheap mass-storage (e.g. GIS)
- ▶ unfulfilled, existing demand for easier and cheaper virtual servers (selfservice)
- ▶ Everything as a Service (IaaS + PaaS + SaaS)

Proposal

Main IT

VMware

HP

NetApp

Cisco

Proposal

Main IT

VMware

HP

NetApp

Cisco

LFE

OpenStack

whitebox

Ceph

Cisco

Proposal

Main IT

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Ceph

Cisco

Ceph

Ceph in a few words

- ▶ defacto scale-out filesystem
- ▶ runs on commodity hardware
- ▶ free and open source

- ▶ see [Linux Sysadmin Meeting from 2015-05-28](#) for more information

OpenStack

OpenStack in a few words

- ▶ defacto cloud environment
- ▶ runs on commodity hardware
- ▶ free and open source

- ▶ componentized
- ▶ very flexible
- ▶ broad industry support

- ▶ maybe more about this in a future Linux Sysadmin Meeting

Discussion

Some Questions...

- ▶ are we interested in pursuing this?
- ▶ want to see some numbers?

- ▶ what kind of SLA would we offer?

- ▶ manpower and budget requirements?
- ▶ manpower scheduling?

- ▶ next steps?

Thank You for Your Attention.

♥ Source Code is freely available

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