Simplify your Datacenter
IT Automation

Mark Hlawatschek
About ATIX

- The Linux and open source company
- Open source datacenter automation

Consulting

Engineering

Support

Training
Disruptive Technology ...
Only one grain of rice
Thinking linear is human ...

How we think change behaves

How actual change behaves

growth vs. time

linear vs. exponential
disruption
Autonomous mobility as a service

Auto piloted, directed and monitored via a Command Centre
Today, IT is driving innovation.

If you can’t deploy software fast, you won’t succeed.

_Digital business is essentially software, which means that organizations that expect to thrive in a digital environment must have an improved competence in software delivery._

Gartner, 2015
Simplify your datacenter

AUTOMATION & STANDARD OPERATING ENVIRONMENT

business demand for innovation

traditional IT innovation capability
Simplify your datacenter

- Complexity kills innovation
- Automation can crush complexity
- When you automate, you accelerate
Spotify’s Free Software projects.

Building the Spotify service would not have been possible without Free and Open Source Software. This page collects some Free and Open Source Software projects that we have released in the hopes that it would be useful to the community. For a full list of projects, see our Github page.

We welcome contributions of all kinds, provided every contributor agrees to and reflects the standards set forth in our Spotify FOSS Community Code of Conduct.

C/C++ · Cassandra · Docker · Java · JavaScript · Objective-C · Python · Ruby · Other

https://spotify.github.io
Thorsten Biel, Manager of cloud and integration services, Porsche: „We are moving from an organization that was mostly serving our internal customers in a reactive way to one that is more proactive, more innovative and more focused on customer experience”

Puppetconf 2017
Standardization

SOE - Standard Operating Environment

Standardization for automation and reproducability
SOE – Base OS Deployment

- Automation of base OS deployment
  - VM orchestration
  - Storage orchestration
  - Network service configuration (DNS/DHCP)
  - Base OS provisioning
  - Integration into configuration management framework
  - Final base OS configuration
SOE – Application Deployment

- Automation application deployment
  - Configuration management frameworks
  - e.g. Puppet with roles and profiles
    - Role: Database server, web server, docker host
  - Software installation
  - User creation
  - OS configuration
  - Application configuration
SOE – Release Management

- Release Management
  - Multiple QA Tier Layers
    - Dev -> Test -> QA -> Prod
  - Automation Tests
  - Multiple update cycles
  - Standardisation of software releases
  - Automation updates
  - Errata management
IT common language

From dev ... to production

Dev
Test
QA
Prod

puppet
ANSIBLE
SALTSTACK
DevOps

- Software Engineering
- Quality Assurance
- Technology Operations

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DevOps Cycle

- Code
- Build
- Test
- Plan
- Release
- Monitor
- Operate
- Deploy

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SOE – Container Platform

Orchestration
Configuration
Release Management
VCS
CI/CD

Container Platform (Kubernetes)

Private Dev
Server Farm
VM
OS

Private Prod
Server Farm
VM
OS

Cloud Prod
VM
OS

Dev
Ops

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What happens next?

Endless Data – Endless connectivity

Machine Learning

Travel

Banking

IoT

Mobility

Shopping

Blockchain
Future starts now.

SOE and IT automation are key factors for innovation!
Ich bin für Sie da.

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