Lifecycle-Management with The Foreman

An Introduction
Timo Goebel

mail@timogoebel.name

dm-drogerie markt / FILIADATA GmbH

Linux, Web, Puppet
Foreman Core Developer
Foreman

→ Life Cycle Management?

Provision
Operate
Demolish
Provisioning – Where to?

- Bare Metal
- VMs
  - AWS
  - Digitalocean
  - VMWare
  - Google
  - Libvirt
  - OpenStack
  - Rackspace
  - oVirt
  - Docker
  - Xen
  - Azure
  - ...
Provisioning

- PXE
  - Kickstart
  - Preseed
  - AutoYast
- Image
  - Cloning
  - user-data (cloudinit)
  - SSH
- ISO Bootdisk
- PXE-less Discovery
Orchestration

- DNS
- DHCP
- Config Management
Configuration

- Puppet
- Chef
- Salt
- Ansible
Monitoring

- Reports
- Facts
- Charts
DEMO
Interfaces

• Foreman
  • GUI
  • CLI
  • API

• Smart Proxy
  • REST
Enterprise

• LDAP
• ACL
• Organizations / Locations
Discovery

- This is Foreman Discovery 0.5.9999-0, tty1 is reserved for logs.
- Some interesting facts about this system:
  - Hardware: x86_64
  - Hardware model: x86_64
  - IP address: 192.168.122.3
  - IP address e1000: 192.168.122.5
  - IP address loot: 127.0.0.1
  - Mac address: 52:54:00:93:84:72
  - MAC address e1000: 52:54:00:93:84:72
  - Manufacturer: Red Hat
  - Memory total: 868.63 MB
  - Production name: KVM
- Logs from discovery services now follows:
  - Discovered by SERVER: ox.xx.xx
  - Registering host with Foreman (http://ox.xx.xx:8080)