



# Lifecycle-Management with The Foreman

An Introduction



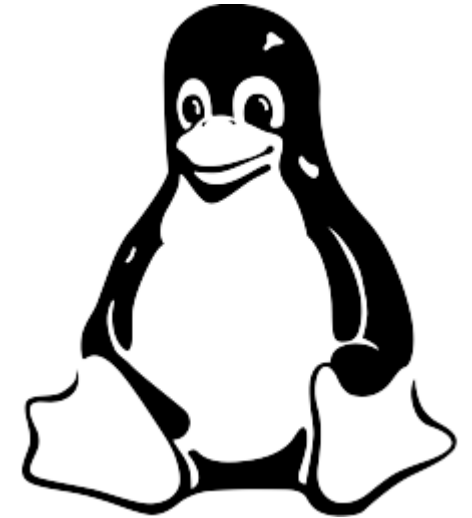
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dm-drogerie markt / FILIADATA GmbH

Linux, Web, Puppet

Foreman Core Developer





# Foreman

→ Life Cycle Management?



Provision



Operate

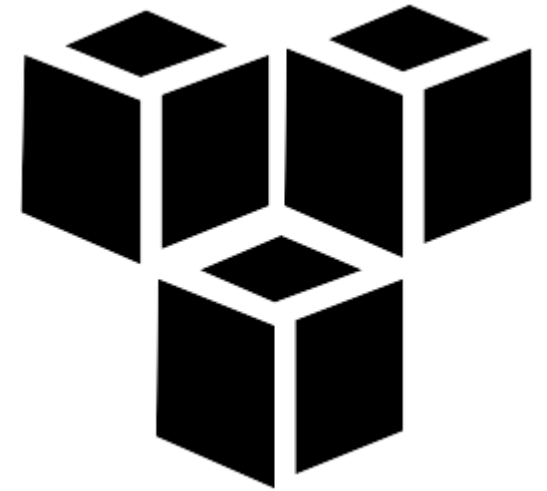
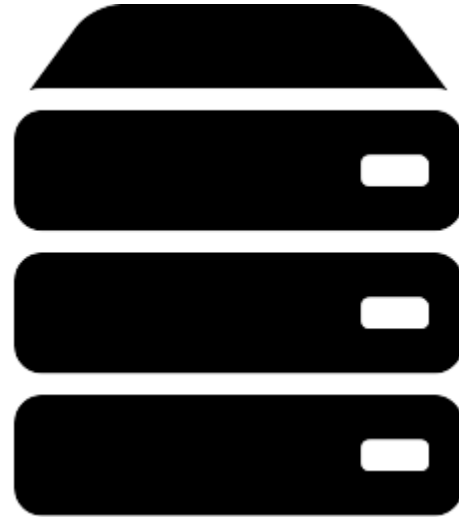


Demolish



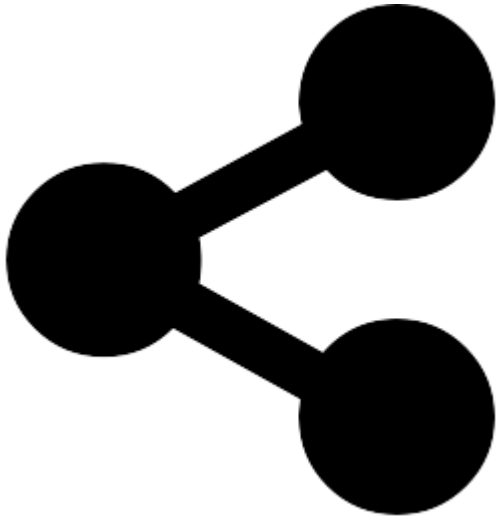
# Provisioning – Where to?

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



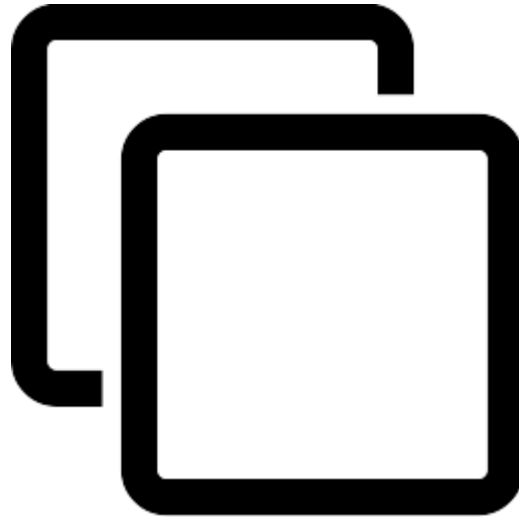


# Provisioning



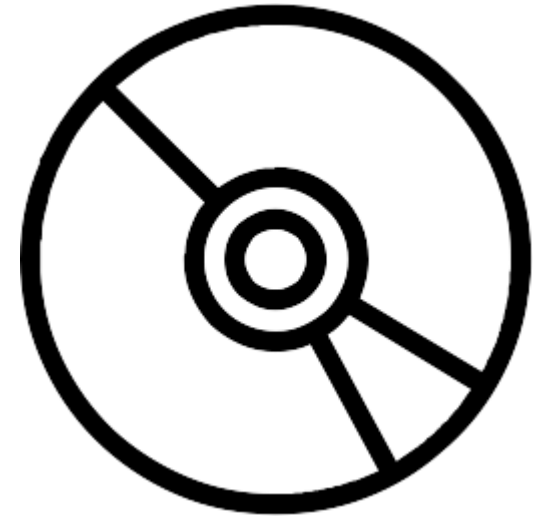
- PXE

- Kickstart
- Preseed
- AutoYast



- Image

- Cloning
- user-data (cloudinit)
- SSH

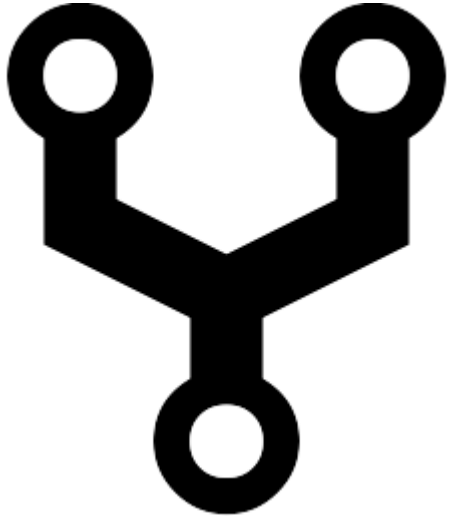


- ISO Bootdisk

- PXE-less  
Discovery



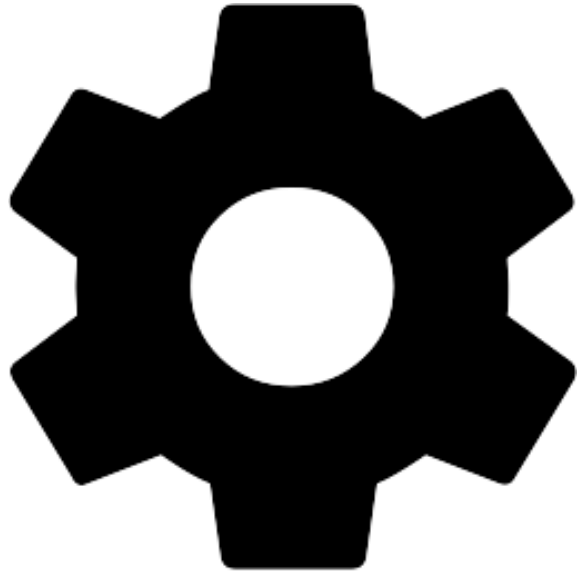
# Orchestration



- DNS
- DHCP
- Config Management



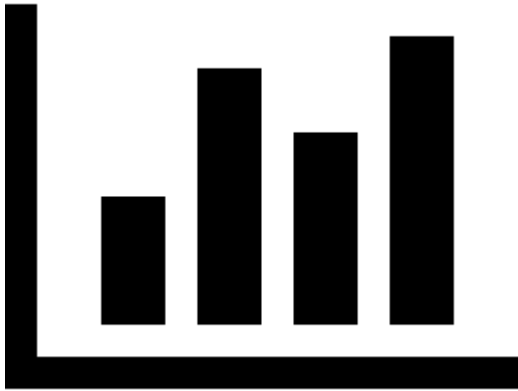
# Configuration



- Puppet
- Chef
- Salt
- Ansible



# Monitoring



- Reports
- Facts
- Charts





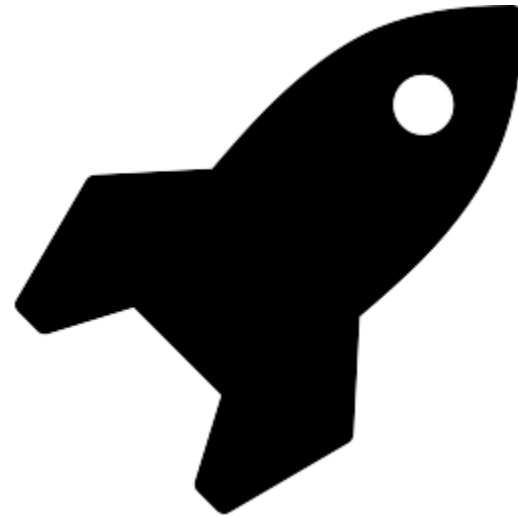
**DEMO**





# Interfaces

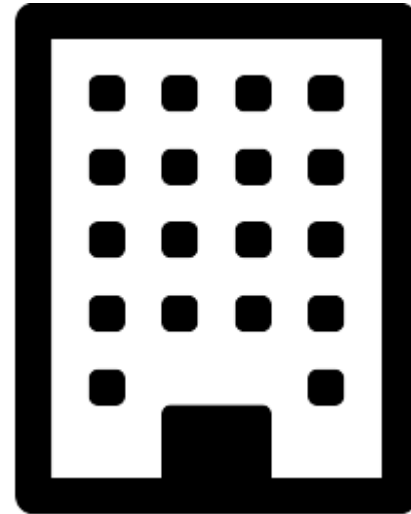
- Foreman
  - GUI
  - CLI
  - API
- Smart Proxy
  - REST





# Enterprise

- LDAP
- ACL
- Organizations / Locations





# Discovery



```
[ 0]  
  
[ 0] _____  
[ 0] |  F O R E M A N  |  
[ 0] |  D I S C O V E R Y  |  
[ 0] | _____ |  
  
[ 0] This is Foreman Discovery 0.5.9999-P, tty1 is reserved for logs.  
[ 0] Some interesting facts about this system:  
[ 0] hardwareisa: x86_64  
[ 0] hardwaremodel: x86_64  
[ 0] ipaddress: 192.168.122.5  
[ 0] ipaddress_eth0: 192.168.122.5  
[ 0] ipaddress_lo: 127.0.0.1  
[ 0] macaddress: 52:54:00:D3:84:72  
[ 0] macaddress_eth0: 52:54:00:D3:84:72  
[ 0] manufacturer: Red Hat  
[ 0] memorytotal: 868.63 MB  
[ 0] productname: KVM  
[ 0] Logs from discovery services now follows:  
[ 0] Discovered by SERVER:xx.xx.xx.)  
[ 0] Registering host with Foreman (http://xx.xx.xx.xx)  
-
```