



- Hosts >
- Applications

† ‡ Applications **→**

- Ansible Playbooks
- App Definitions
 - App Instances
- Configure >
- Infrastructure >

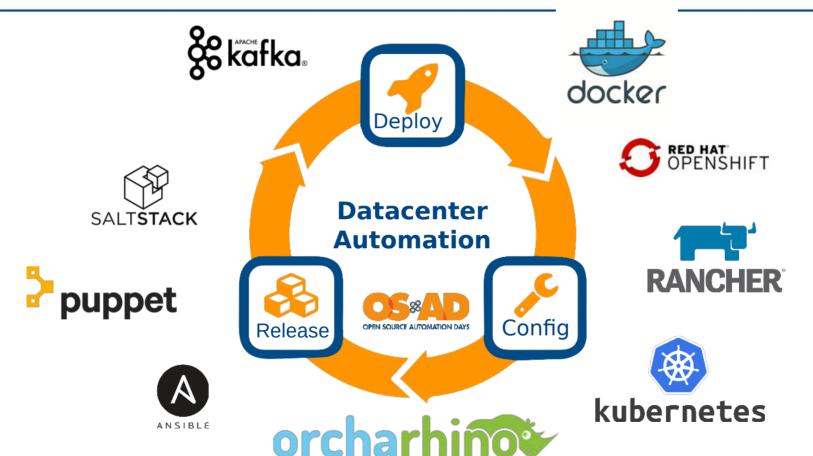
Application centric deployment mit

foreman / katello

13.03.2021 Bernhard Suttner

SIMPLIFY YOUR DATACENTER





Open Source Automation Days







Configuration management



- Keep your configuration up to date
- Automatically deploy changes
- Reproducibility of changes
- Central repository with version control
- Human understandable
- Machine readable



The Foreman Project



- Open Source project initiated by
 Ohad Levy committed on 13 Jul 2009
- Ruby on Rails
- Puppet ENC
- Show reports & facts
- Host provisioning



Foreman: manage your hosts

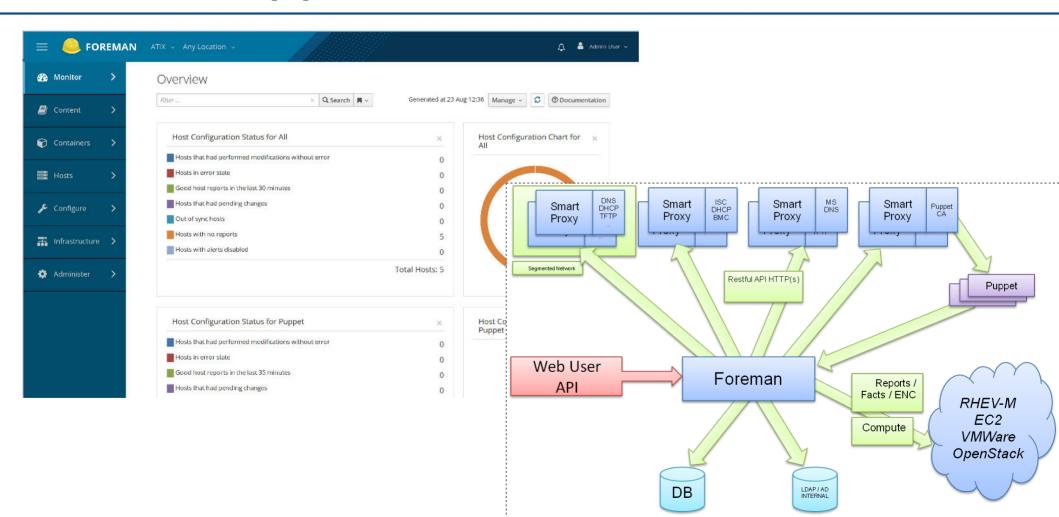




SALTSTACK

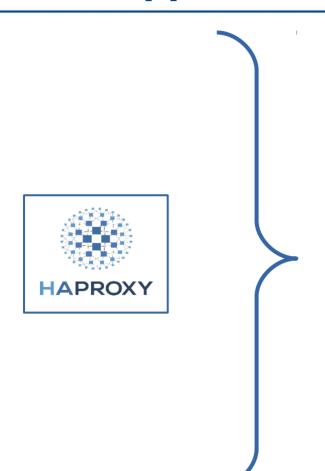
Foreman UI(s)





The web application











What we currently need to do...



- Configure the foreman environment (hostgroup, operating systems, ...)
- Provision 3 new hosts
- Configure each host individually (manually, or by ansible, salt, puppet)
- Make sure all hosts are up and are "connected"

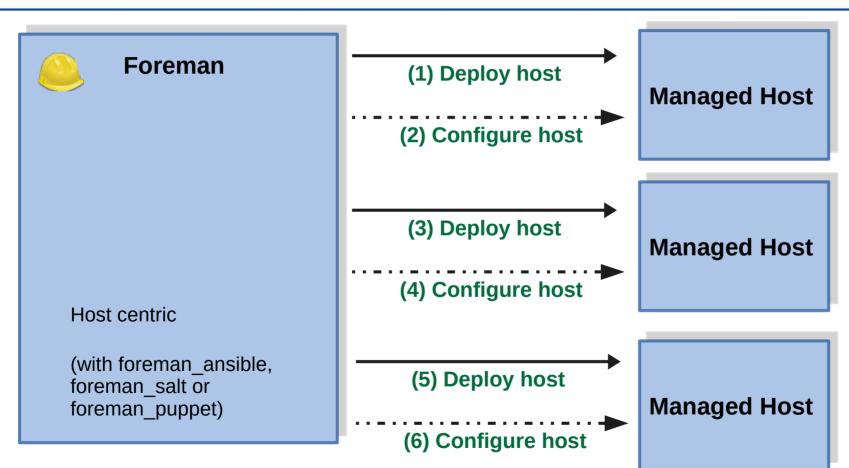
What we actually want to do...





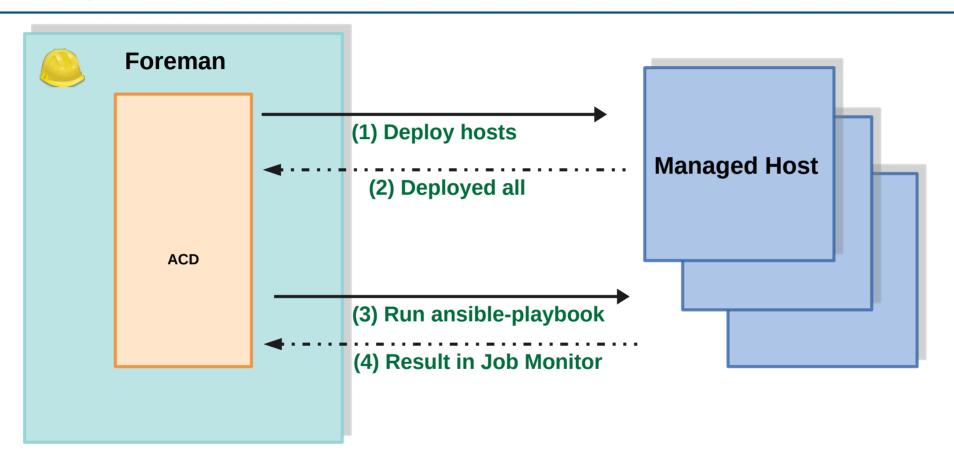
Host centric deployment





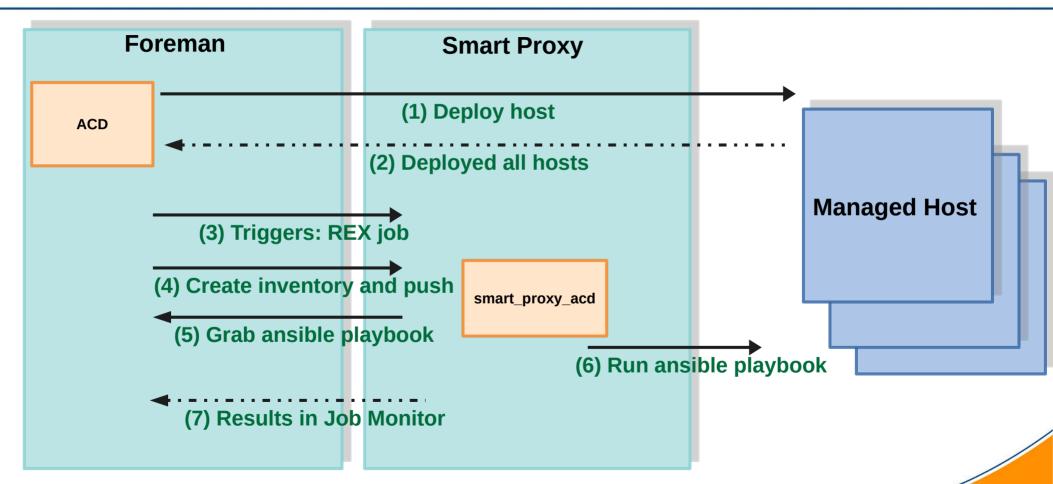
ACD, how it works!?





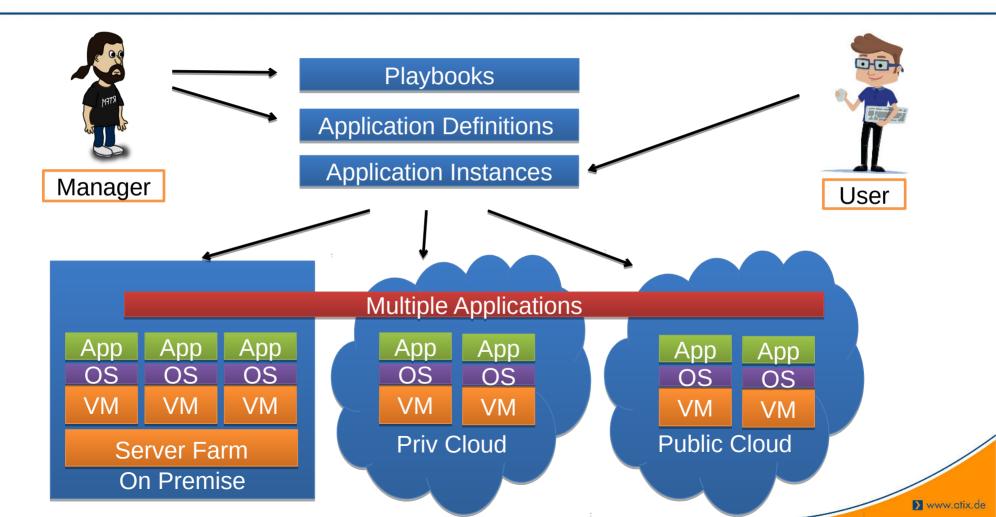
How it really works...





User roles







Application centric deployment: summary



Process:

- 1. aPlaybook = AnsiblePlaybook.new()
- 2. aDefinition = appDefinition.new(aPlaybook)
- 3. alnstance = applnstance.new(aDefinition)
- 4. alnstance.deploy()
- 6. alnstance.configure()

Roles

manager: Ansible Playbook & application definition user: Application instance

Future plan



- Support of multiple smart proxies
- "Safe" Re-deploy
- Provide and share ready to use application templates (Application definition + playbook)
- Ansible playbook git support
- Salt support
- Translations

Links



- https://www.theforeman.org
- https://community.theforeman.org
- https://github.com/ATIX-AG/
- https://github.com/theforeman/foreman/
- https://github.com/ATIX-AG/foreman_acd/
- https://github.com/ATIX-AG/smart proxy acd/
- Soon: a lot of ACD related documentation at https://docs.orcharhino.com

Stay in contact





sbernhard @ #theforeman-dev



https://github.com/sbernhard



@ sBernhard



suttner@atix.de

