PROVISIONING FROM DEVELOPMENT TO PRODUCTION
ANDRE VON DEETZEN
@VDANDRE

OLIVER WEHRENS
@OWEHRENS
@BERLIN
“FASTER TIME TO MARKET”
4-6 MEANTIME BETWEEN DELIVERIES IN WEEKS
100 SOURCE REPOSITORIES
“FASTER TIME TO MARKET”
3 AREAS TO CHANGE
ARCHITECTURE
MANY SMALL SERVICES
STATELESS SERVICES
INDEPENDENT DEPLOYABLE
STABLE INTERFACES
DEPLOYMENT PIPELINE
## Stages & Version

<table>
<thead>
<tr>
<th>Stage</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEV</td>
<td>Development</td>
</tr>
<tr>
<td>Testing</td>
<td>Release Candidate</td>
</tr>
<tr>
<td>Stable</td>
<td>Certified Release</td>
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</tbody>
</table>
YUM Repo
DEV

YUM Repo
Testing

YUM Repo
Stable

YUM Repo
Stable (Rechenzentrum)

DataCenter

Contract with Ops
TC → YUM Repo DEV

YUM Repo Testing

YUM Repo Stable

YUM Repo Stable (Rechenzentrum)

DataCenter

Contract with Ops
Same Binary across all stages!
Same Binary across all stages!
CONFIGURATION MANAGED BY PUPPET
PROVISIONING
LIFECYCLE

- Create
- Install
- Configure
- Reboot
- Smoketest
- Operate

KVM
Kickstart & RPM
Puppet

$$$
DISASTER RECOVERY
BUILD IN
BLUE - GREEN
DEPLOYMENT
HOW TO TEST LOCALLY?
Developer Operating Systems
Everything can be tested locally with vagrant
(this means operating system like in production, configuration management, deployment, building packages, needed network interfaces, ...)

http://www.vagrantup.com
WHAT CHANGED IN OUR WORKFLOW?
TEAM IS RESPONSIBLE
EVERY COMMIT GOES TO PRODUCTION
DEPLOY
≠
FEATURE RELEASE
ROLL FORWARD
AUTOMATE ALL THE THINGS
IF IT HURTS DO IT MORE OFTEN (EXCEPT MEETINGS)
TEST SETUP
Visibility
NEXT STEPS
DB DEPLOYMENT
COMPONENT PUPPET
WITH HIERA
SAME KICKSTART IN DEV & PROD
FEEDBACK: LIVE DATA IN DEV WITH GRAPHITE
MEASURE, MEASURE, MEASURE
SELF HEALING
LESSONS LEARNED
#1
CLOSE TO PRODUCTION AS EARLY AS POSSIBLE
#2 EVERYTHING CAN BE AUTOMATED
#3
MANAGEMENT BUY IN
#4 SELF-SERVICE INFRASTRUCTURE FOR TEAMS
#5
RESISTANCE WILL RISE
#6
IT’S WORTH THE EFFORT
~ 30 MIN TO CR
#7

FEEDBACK IS NEVER FAST ENOUGH
QUESTIONS