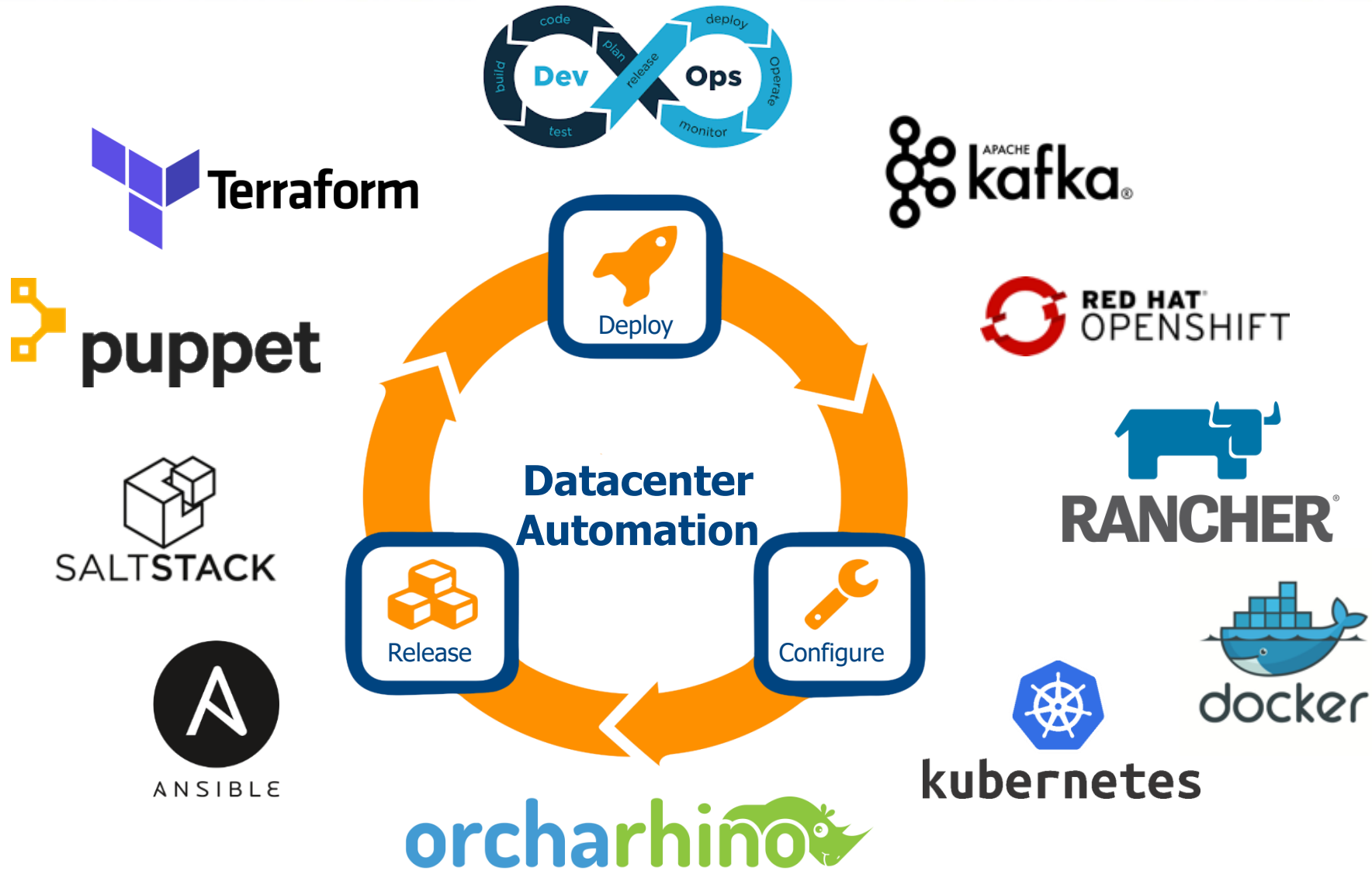
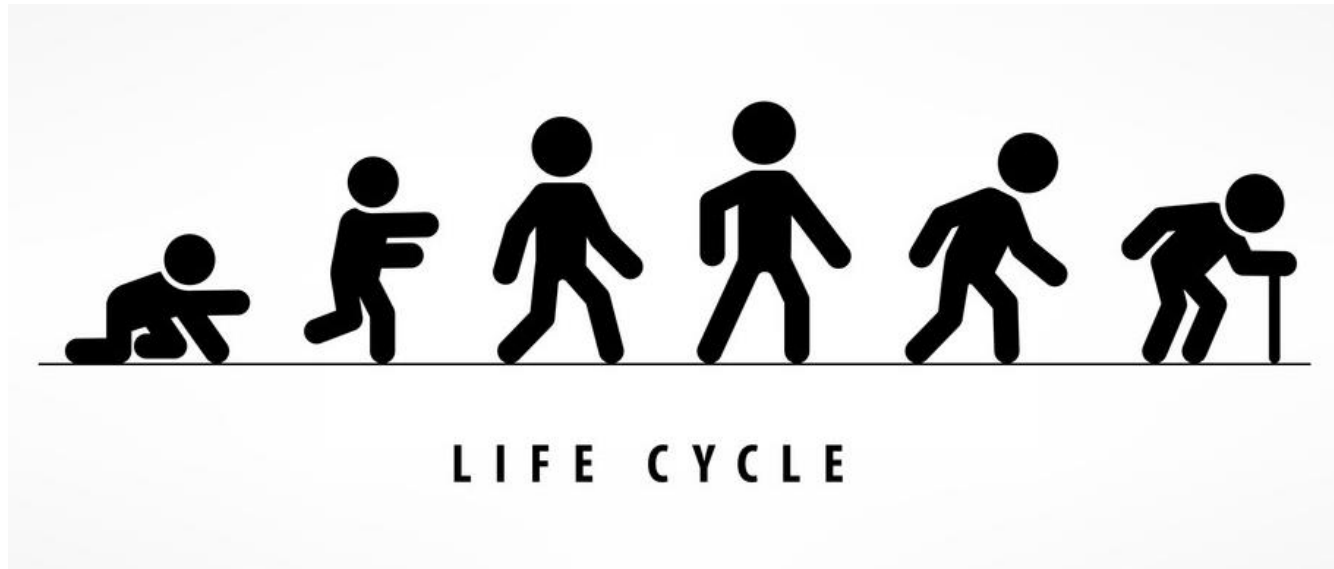


Lifecycle-management with **orcharhino**

October 5th, 2021

Dr. Jonas Trüstedt





Consists of multiple components:

- Deployment
- Configuration-Management
- Patch- & Releasemanagement



Why do I need „lifecycle-management“?

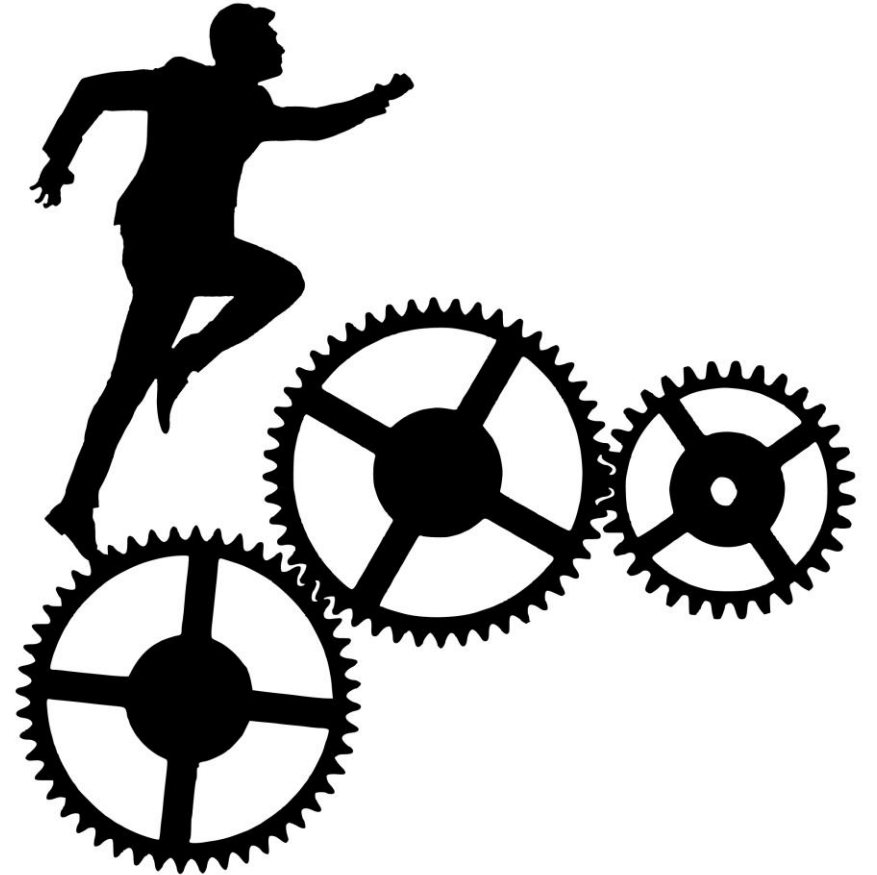
Deployment:

- Reproducible deployments
- Automated deployments

Configuration management

- Centralized
- Possibility to rollout new configuration automatically

→ Automation & reduce errors



Why do I need „lifecycle-management“?

Patch- & Releasemanagement

- Control installed packages and patches
- Staging (Dev > Test > Prod)
- Information of available (security) patches/errata

→ Stability & Quality





Installable Errata

Security:

Bug Fix:

Enhancement:

! 84
🐛 203
+ 30



Installable Updates			
25	! 69	9 +	221
486			
54	! 136	5 +	486
486			
54	! 136	5 +	486
827			
84	! 227	30 +	486
855			
101	! 235	30 +	486
388			
50	! 100	5 +	486
390			
52	! 100	5 +	486
203			
84	! 1	30 +	751
240			
154	! 1	1 +	891
892			
155	! 1	1 +	892

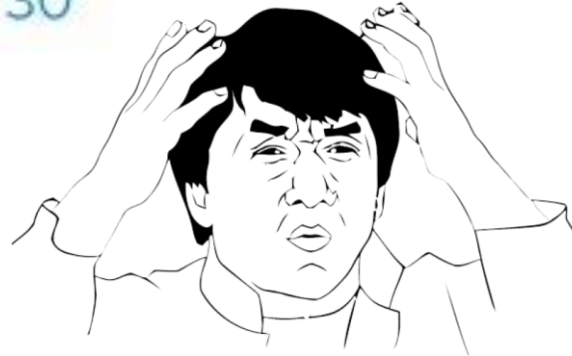
Installable Errata

Security:

Bug Fix:

Enhancement:

! 84
🐛 203
+ 30



But how?

Installable Updates			
25	! 69	9 +	221
486			
54	! 136	5 +	486
486			
54	! 136	5 +	486
827			
84	! 227	30 +	827
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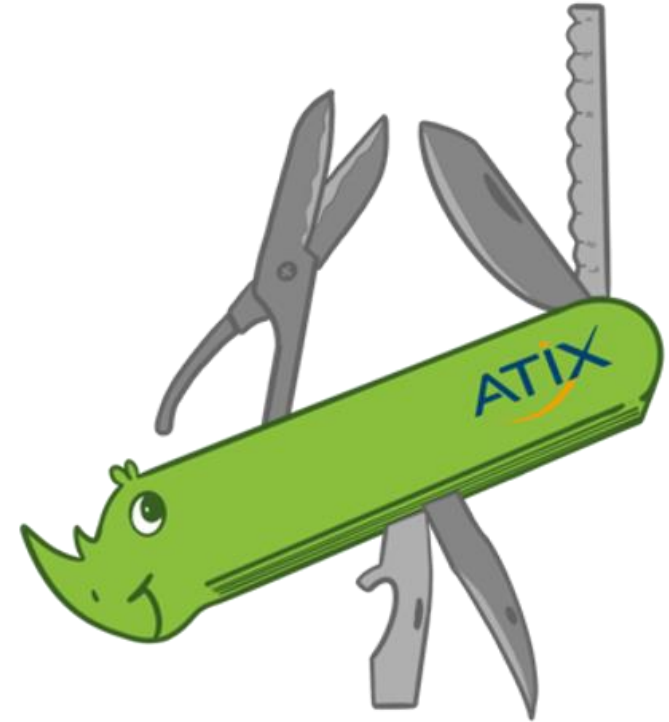
Slide 7: surprise – we have a tool for it



**WTF is
orcharhino?**



- Deployment of new machines
- Configuration-management
- Repository-server & -management
- Administer frozen patchlevels
- Staging through environments



Repository-mirror for common Linux distributions

- Mirror for rpm- and deb-repositories
- Client for all common enterprise linux OS
- Integration for errata (security patches)

ubuntu[®]

ORACLE[®]
LINUX


AlmaLinux


CentOS

 **Red Hat**
Enterprise Linux


Rocky Linux[™]


SUSE[®]


debian

Information of the current patch-status of all systems

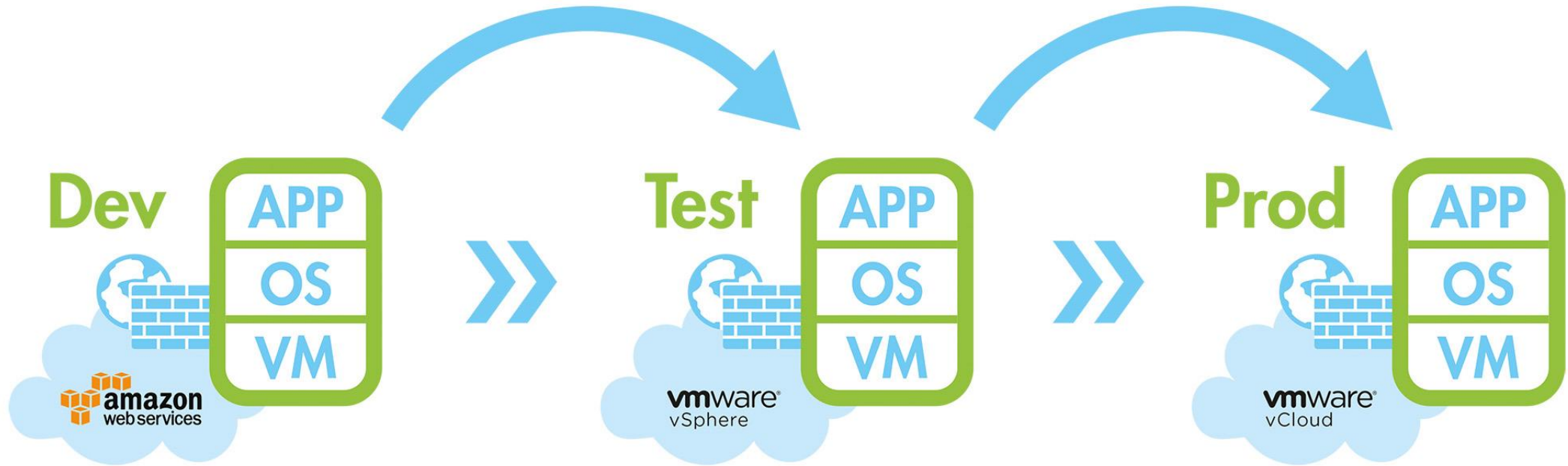
- Information of available (security) patches/errata
- Trigger installation via GUI/CLI/API
- Control consumed subscriptions and attached repositories

→ Control over Packages, Patches & Releases

Installable Updates			
25	69	9	221
54	136	5	486
54	136	5	486
84	227	30	827
101	235	30	855
50	100	5	388
52	100	5	390
84	203	30	751
154	240	1	891
155	240	1	892



Release-management: staging of new (package) releases



- Deployment of new machines
 - Virtual machines
 - Baremetal
 - Cloud-instances
- Multiple deployment mechanisms
 - Networkbased
 - Imagebased
- Deployment based on patchlevel of environment



- Orchestration of
- Hypervisors
 - Cloud providers



Integration of different tools:

- Ansible
- Puppet
- Saltstack

→ Combination possible



A N S I B L E



puppet

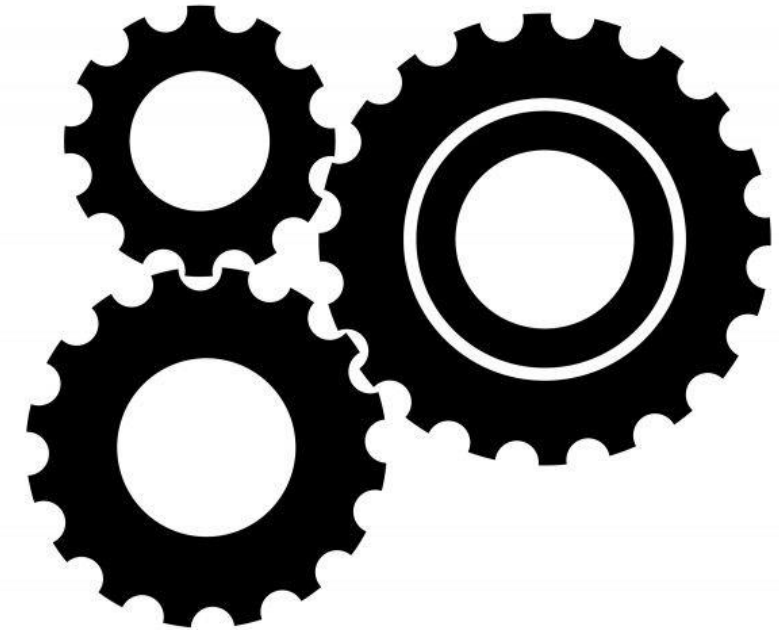


SALTSTACK

Create predefined templates consisting of:

- Operating system details
- Hypervisor & VM-Settings
- Lifecycle Environment
- Deployment details
- Configuration management

→ Deployment of fully configured machine

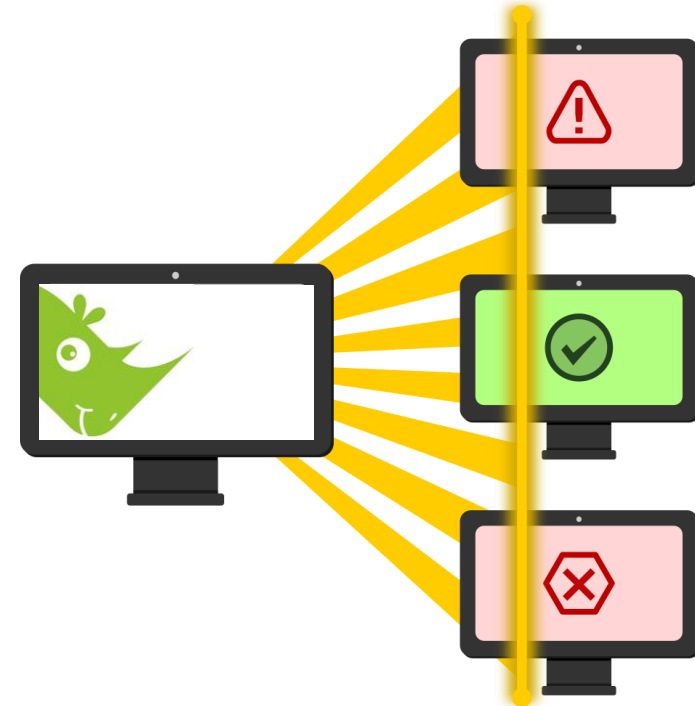


- Application instances with multiple host/roles
- Install, configure, connect via Ansible
- Deployment, configuration and cluster setup in one workflow
- Example: ELK-stack, Kubernetes, Galera-Cluster



OpenSCAP compliance reporting

- Distribute compliance policies
- Check and collect reports regularly
- Benefit in audits



Role-based permissions

- Organizations/Locations
- Custom-filters (based on facts/properties)
- Granular permission layers



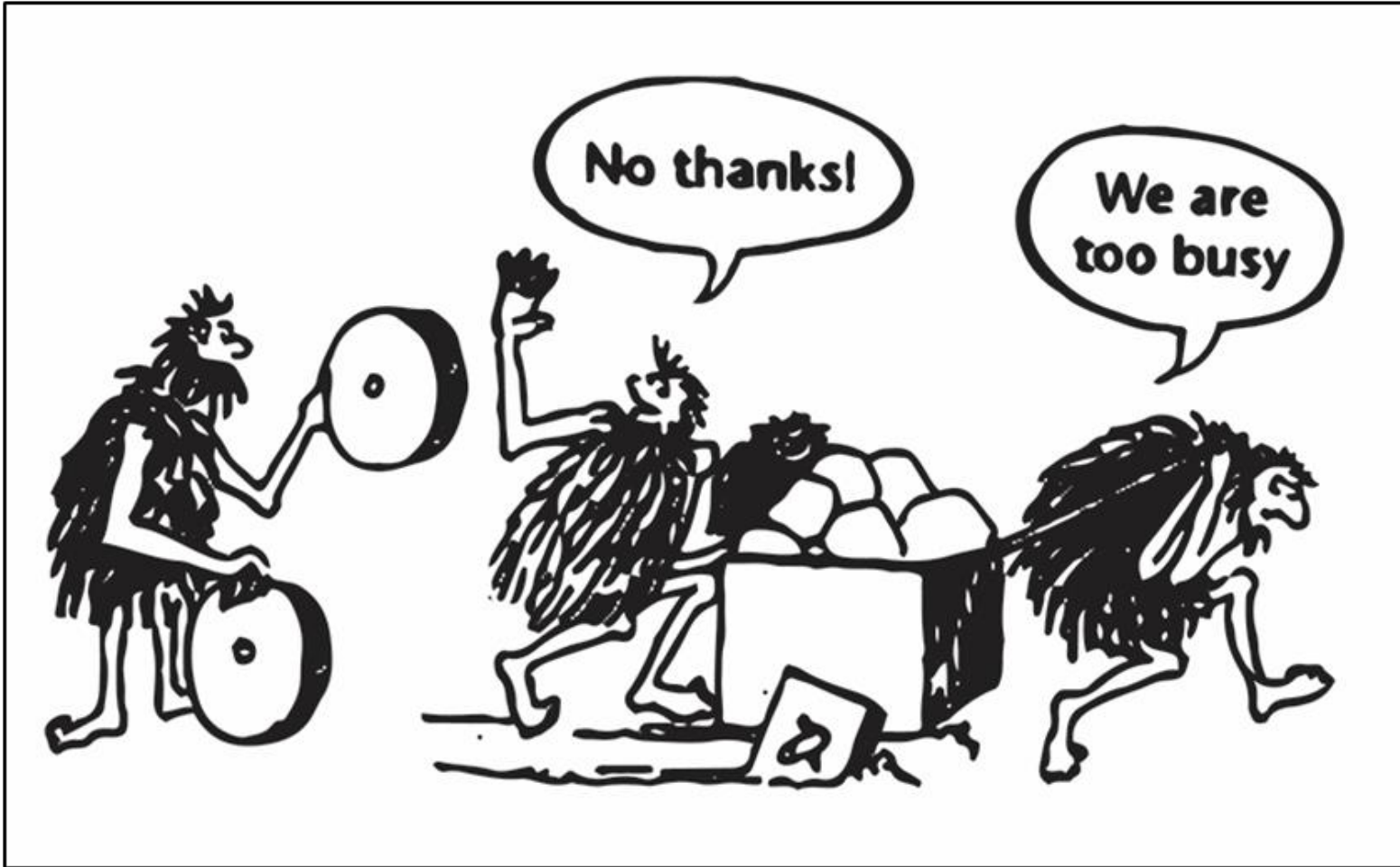
Selfservice capabilities:

- Predefined templates
- Restricted permissions
- Restriction to certain environments
- Integration via REST API in existing solutions



- One tool to orchestrate the complete lifecycle
- Standardize and automate workflows
- Support for all common Linux distributions & different configuration management tools
- Tested and stable releases
- Support & Trainings





- Orchestrate your packages/patches & releases
- Implement lifecycle/staging environments for more stability
- Improve deployments with combination of configuration management
- Monitor the patchable vulnerabilities and compliance

→ Get a demo or trial

