Lifecycle-management with orcharhino

October 5th, 2021
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LIFE CYCLE
Lifecycle-management for IT

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:**
- 84

**Bug Fix:**
- 203

**Enhancement:**
- 30

### Installable Updates

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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<tr>
<td>Security</td>
<td>84</td>
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<tr>
<td>Bug Fix</td>
<td>203</td>
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<tr>
<td>Enhancement</td>
<td>30</td>
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Patchmanagement

Installable Errata
Security: 84
Bug Fix: 203
Enhancement: 30

But how?

Installable Updates

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Slide 7: surprise – we have a tool for it
WTF is orcharhino?
Orcharhino – a multipurpose tool for automation

- 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)
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
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
Deployment with orcharchino

Orchestration of
- Hypervisors
- Cloud providers
Integration of different tools:
• Ansible
• Puppet
• Saltstack

→ Combination possible
Combine configuration management and deployment

Create predefined templates consisting of:
• Operating system details
• Hypervisor & VM-Settings
• Lifecycle Environment
• Deployment details
• Configuration management

→ Deployment of fully configured machine
Application Centric Deployment

- Application instances with multiple host/roles
- Install, configure, connect via Ansible
- Deployment, configuration and clustersetup in one workflow
- Example: ELK-stack, Kubernetes, Galera-Cluster
Compliance Reports using OpenSCAP Policies

OpenSCAP compliance reporting
• Distribute compliance policies
• Check and collect reports regularly
• Benefit in audits
Role-based access control

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
Advantages of using orchарhino:

• 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
No thanks!

We are too busy
Summary – simplify your datacenter administration

- 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