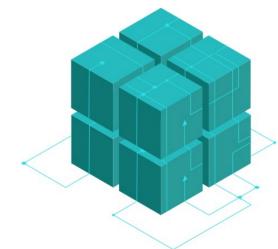


Uyuni on kubernetes

From monolith to containers

Cédric Bosdonnat Developer cbosdonnat@suse.com



Agenda



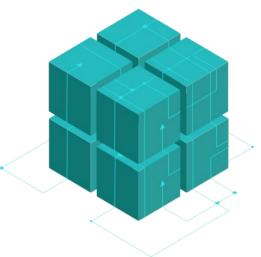
- Short Uyuni presentation
- The path towards containers
- Benefits to expect

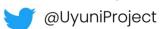


Uyuni: upstream project for SUSE® Manager



- Community-supported
- Monthly meeting: Uyuni Community Hours (last Friday of the month, 4pm CET)
- Runs on openSUSE Leap
- Monthly releases
- Rolling-release
- Product import using CLI tool (vs wizard in SUSE Manager)
- All translations enabled by default (even community ones)





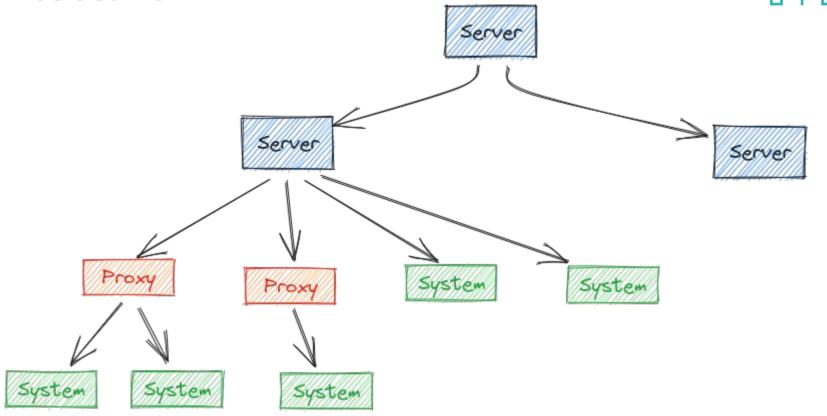




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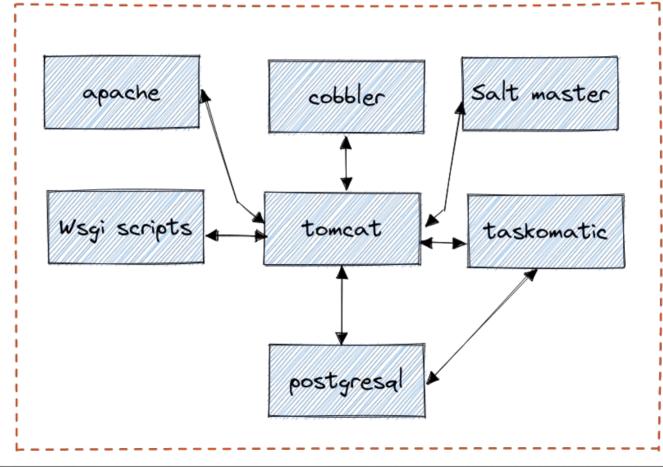
Architecture





10,000ft view







Rough steps





k8s differences



- SSL
 - Certificates generated by cert-manager
 - Terminated at Ingress
- Ingress routes
- No fixed hostname
- Init containers to populate the volumes

Migration from existing server

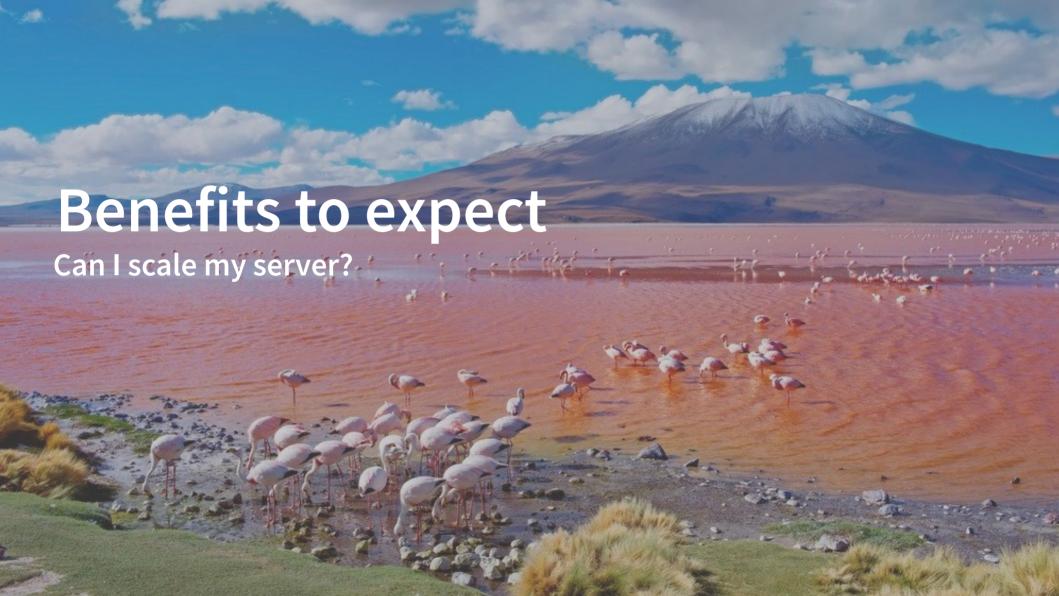


- Job
 - Same image
 - Volumes mounted
 - SSH key mounted
 - SSH agent socket mounted
 - Rsync
- Point DNS to the new machine
- Start the container

Making it easier



- uyuniadm
 - Setup
 - Migration
- uyunictl: daily tasks
 - Exec into the container
 - Copy files
 - ...
- Work in progress



OS independence



- Can run on any Linux
- Easier dependencies management



Resilience



- Deployment, one replica
- Requires
 - Multi node cluster

Shared storage across node



Scalability



- Not without refactoring
- To be started with selected containers

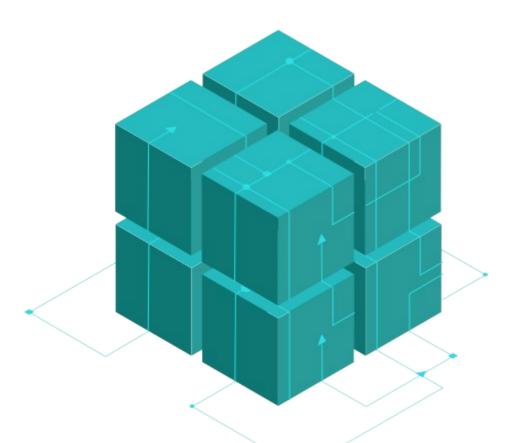


Decoupling components



- Sets the foundation
- One at a time
 - Easiest
 - Most critical
- Requires code refactoring





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