



October 2022

Rancher Training Lab

Agenda

- Cluster Design
- Create k3s cluster
- Install Rancher in cluster
- Create RKE cluster
- Cluster Operations
- User Management OpenLDAP
- Service Mesh with Istio
- Cloud Native CI/CD with Tekton, ArgoCD
- Springboot service monitoring

Lab Instructions: GitHub - flytux/rancher-training



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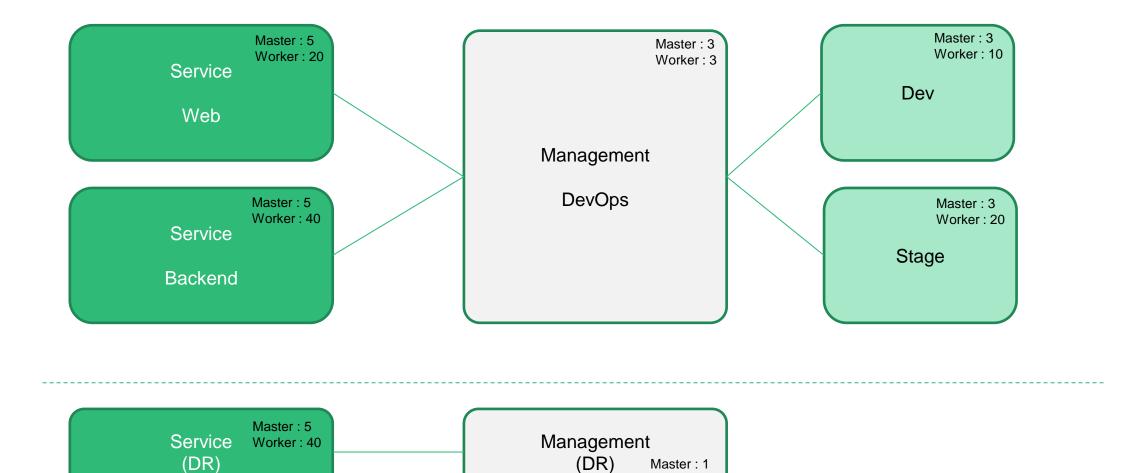
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Cluster Design

- Management VS Service
- Resource
- Operations (Backup, Logging, Audit, Security, DR)
- Users
- Master / Worker Config
- Storage

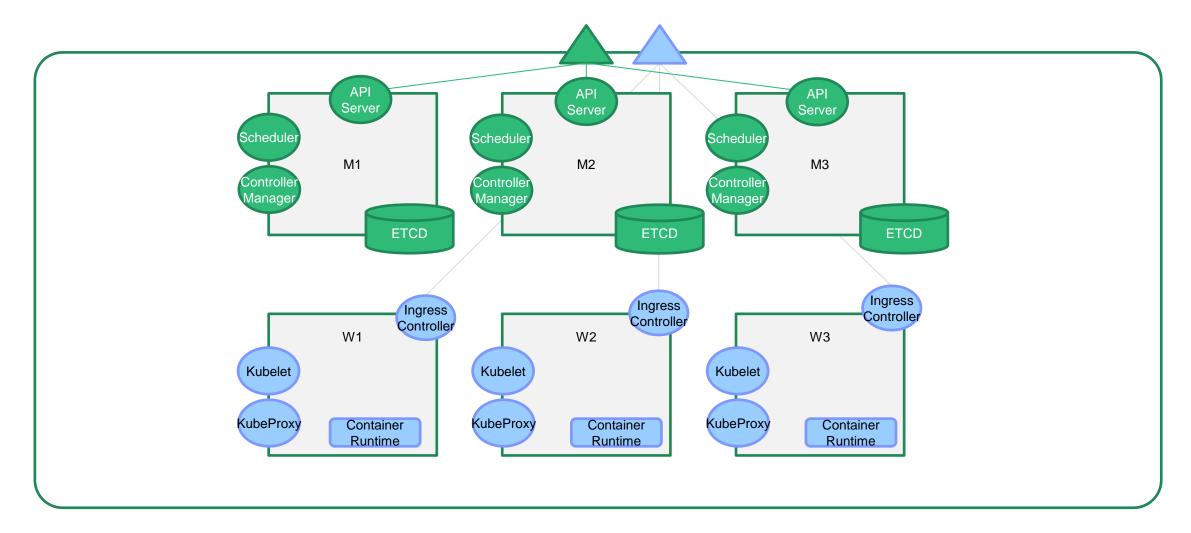
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Cluster Design - Case 1

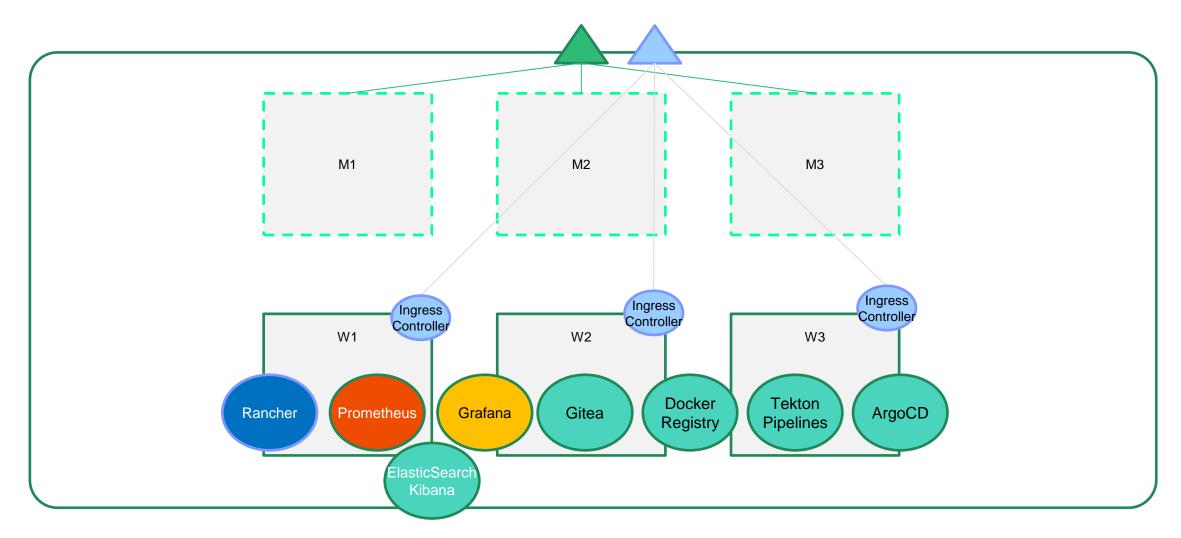


Worker: 2

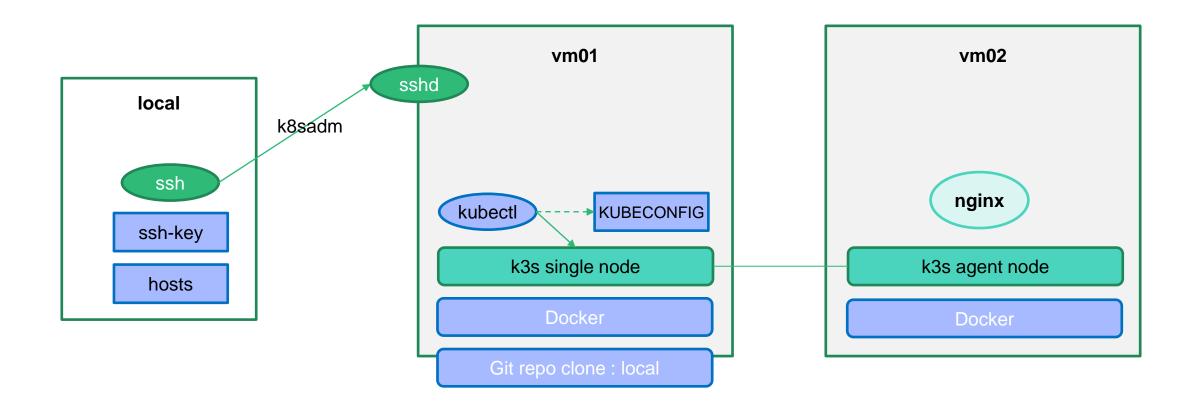
Management Cluster



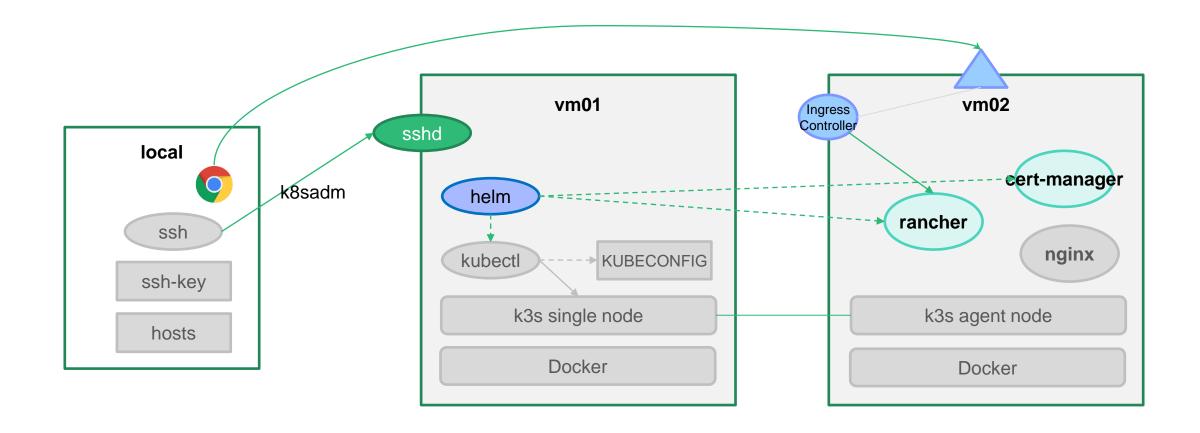
Management Cluster Workloads



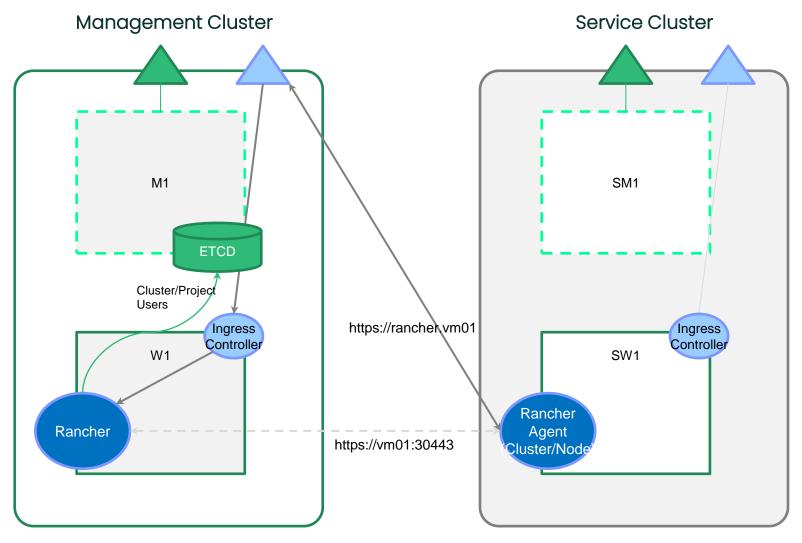
Lab 1. Create k3s cluster



Lab 2. Install Rancher in cluster

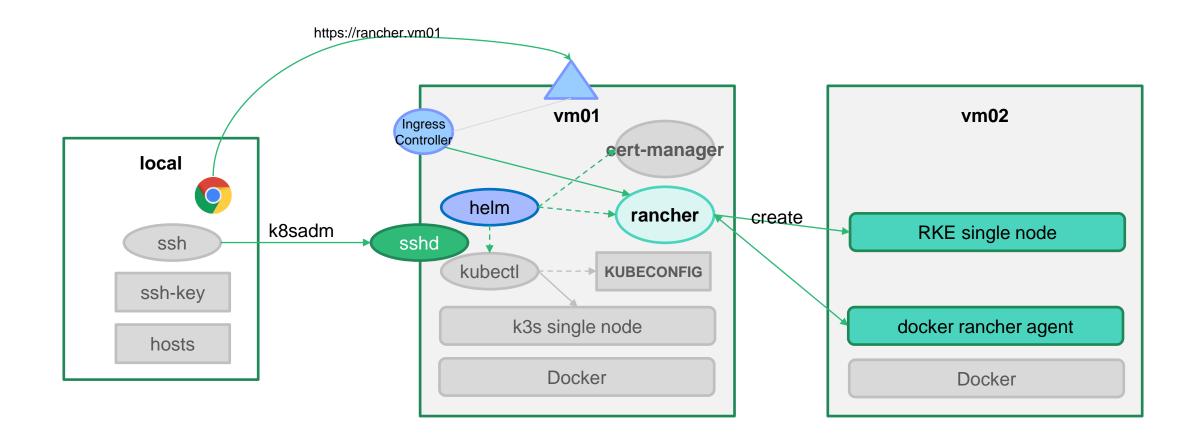


Rancher





Lab 3. Create RKE cluster

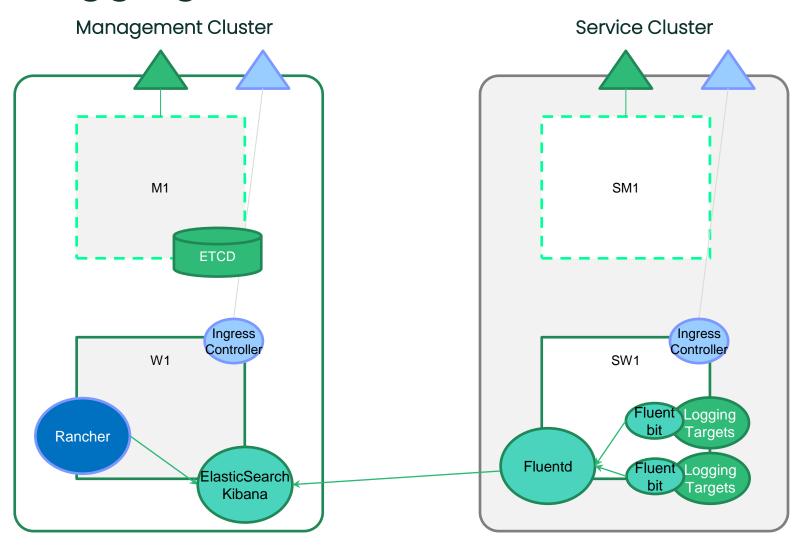


Lab 4. Cluster Operations

- Node Management (Add, Drain, Delete)
- Assign Resources to Specific Node
- Resource Quota / Scale
- Backup / Restore
- Certificate Management
- Storage Classes

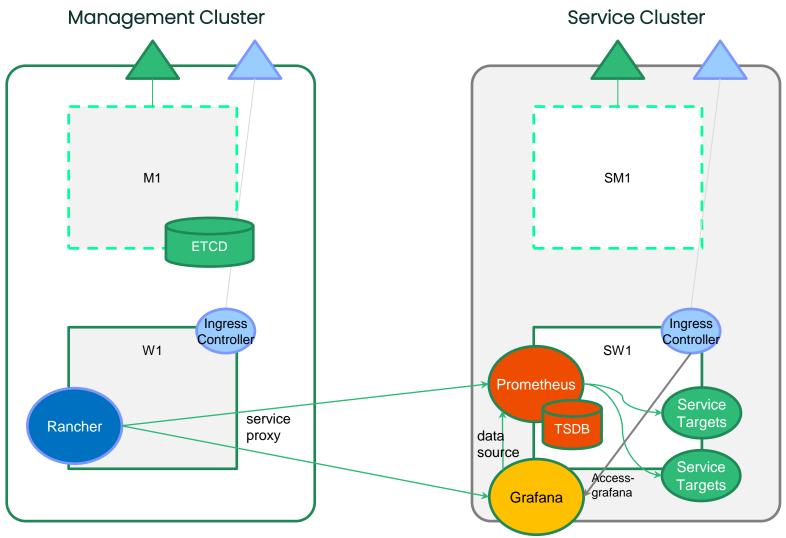
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Rancher Logging / EFK



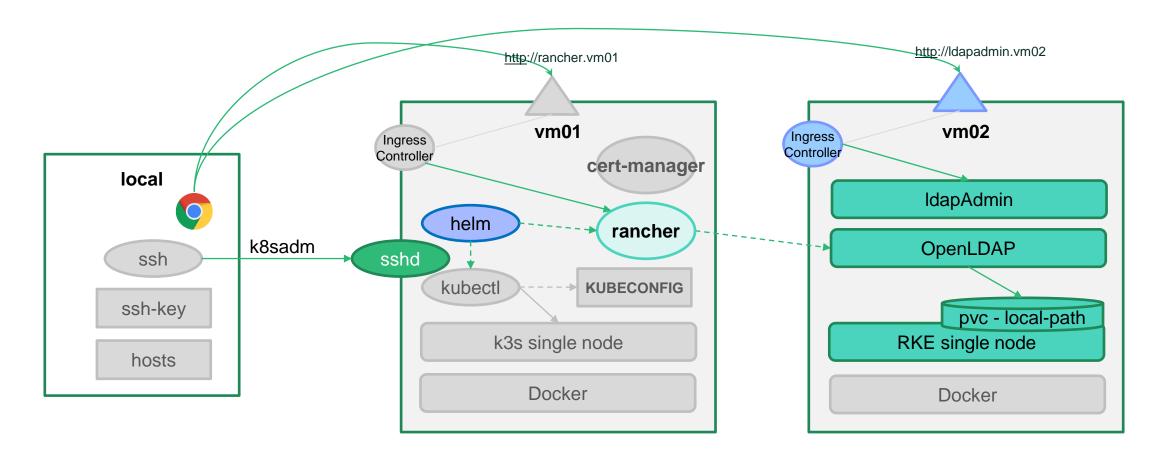


Prometheus / Grafana

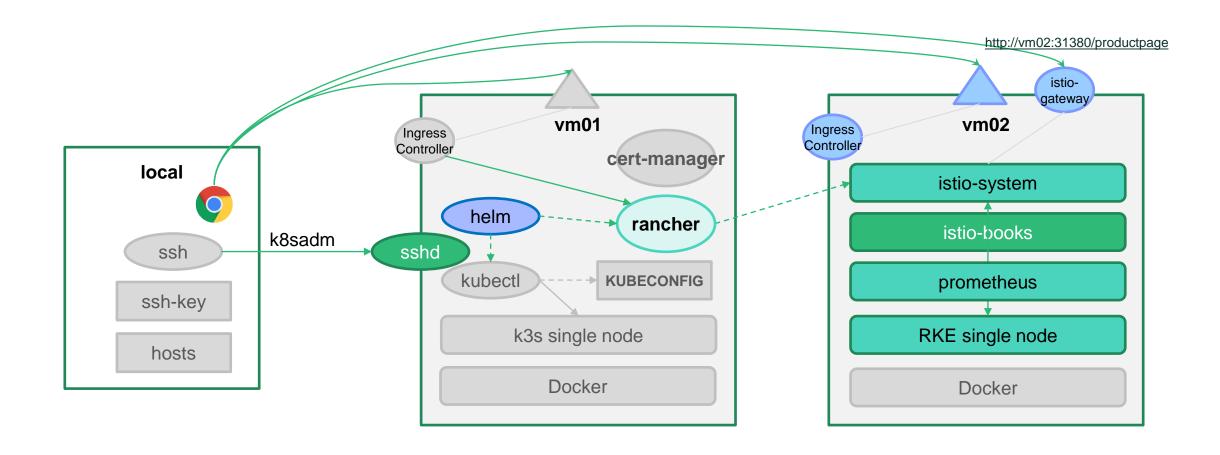




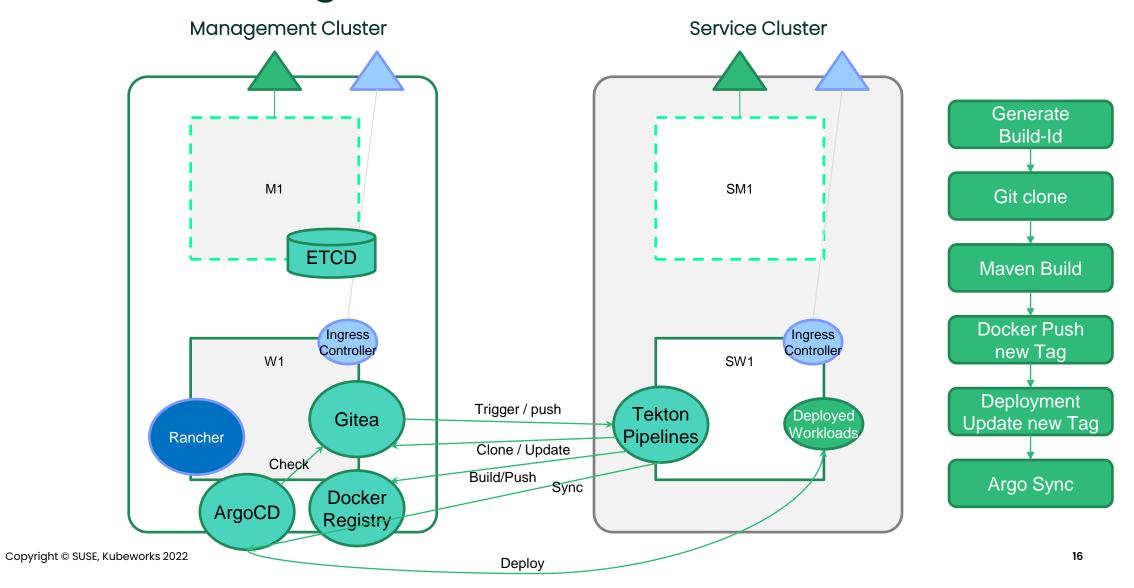
Lab 5. User Management - OpenLDAP



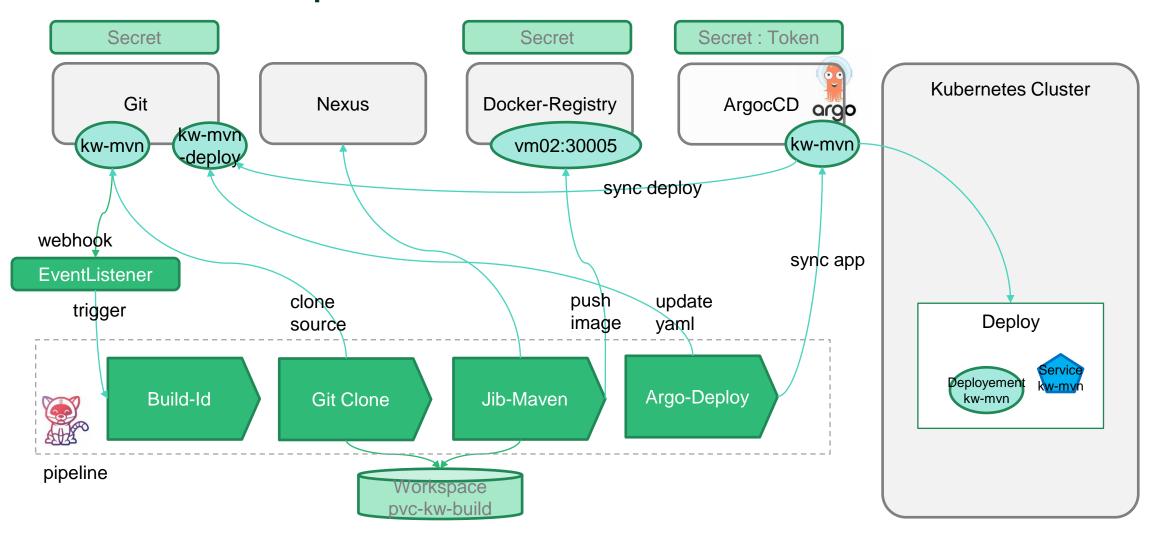
Lab 6. Service Mesh with Istio



Lab 7. Tekton / ArgoCD



Lab 7. CI/CD Pipeline





Thank you

For more information, contact SUSE at:

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