



Hans-Nikolai Vießmann :: AWI Department Meeting :: Paul Scherrer Institut

Rancher on VMs

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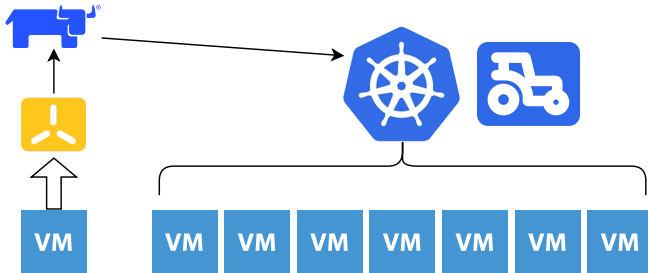


K8s-based service to create and administrate multiple separate K8s clusters...

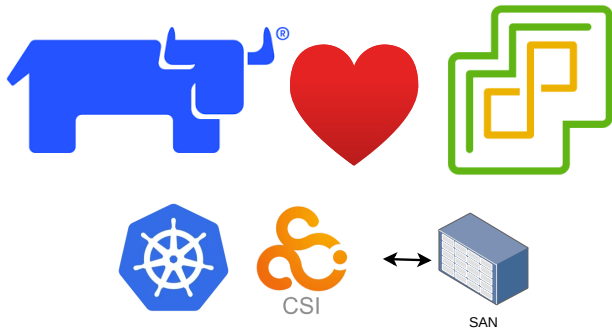
Main features:

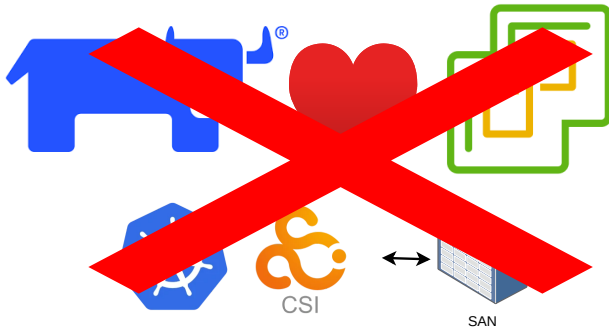
- ▶ nice WebUI with full view on K8s configurations
 - ▶ builtin editor and shell for `kubectl` commands (in case the UI isn't enough)
- ▶ builtin interface for Helm charts (similar in design to a *app store*)
- ▶ managed 100s of clusters
 - ▶ quickly create clusters
 - ▶ *agent* for nodes
- ▶ dynamic provision possible through service integrations (cloud, storage, *etc.*), **especially vSphere**

Our Rancher Setup

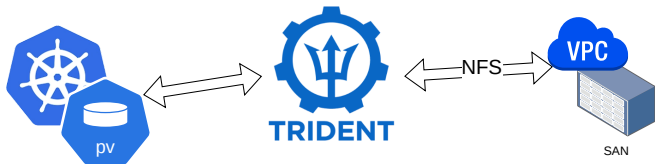


- ▶ Rancher runs on K3s (micro-K8s single-node cluster)
- ▶ several VMs are managed by Rancher, onto which K8s is deployed (RKE2 flavour)





Rancher's integration with vSphere is imperfect (also possible issues with VMware configuration/licensing)



NetApp Trident to the rescue; exposes NFS via a *virtual private cloud* interface

