

Introducing the speakers



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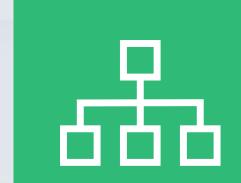
The 1st customer call after SUSE Rancher acquisition

Jan-2021



- Quick surprising facts for our team
 - Financial Service Institute
 - Very Big Red Hat customer in the region
 - Innovation leader, early adopter of OpenShift

SUSE Rancher Unique Approach



It's a multicluster world



Treat all
Kubernetes
distributions as
first class citizens

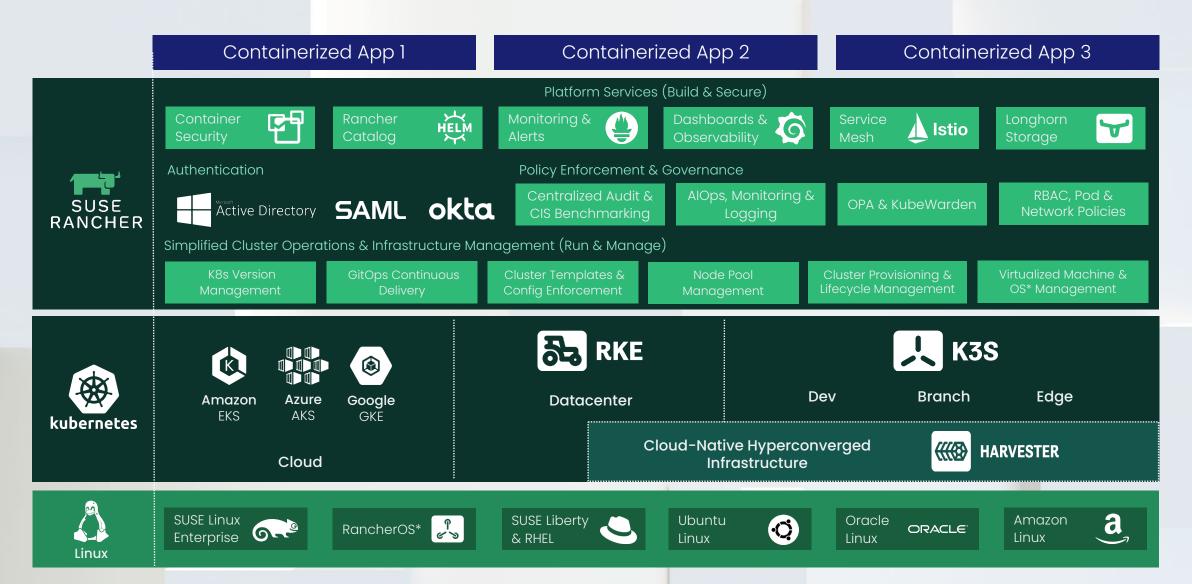


Value is in Kubernetes management



'Open' approach to open source

Simplify complexity across your infrastructure







SUSE Rancher & Ready Partner platform services

Authentication & Authorization

App Management & CI/CD

Monitoring & Logging

Registry & Image Scanning

Container Security & Secrets

Networking & Service Mesh

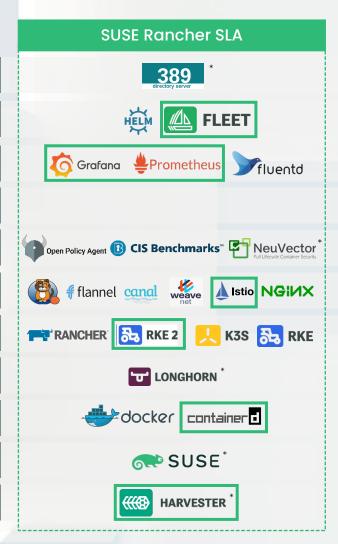
Platforms & Orchestration

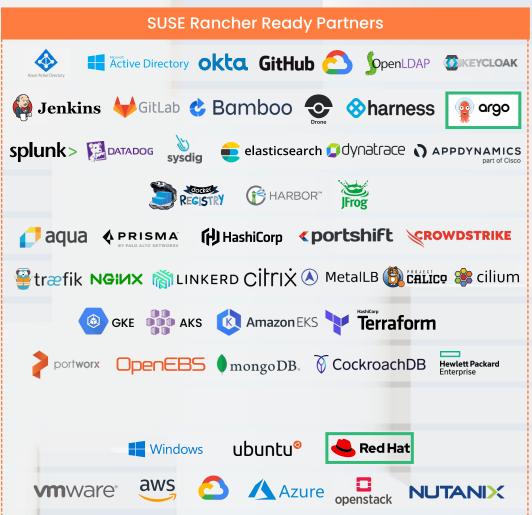
State Storage

Container Engine

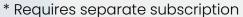
Operating Systems

Infrastructure



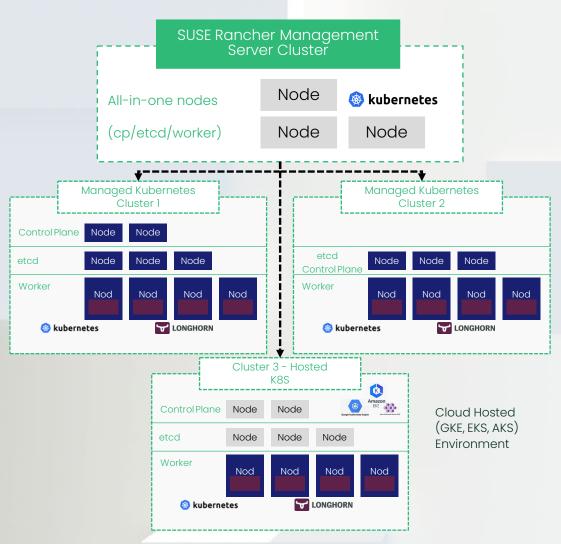


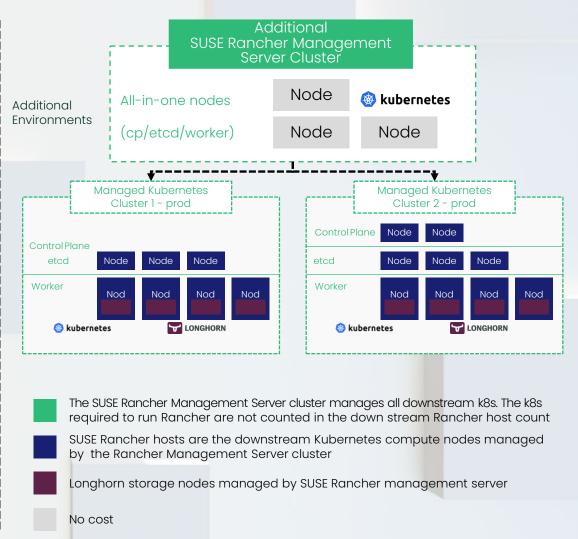
SUSE Rancher partner catalog





Typical SUSE Rancher + Longhorn Setup





Eval / POC / importing OCP under Rancher





Understanding value propositions

Same space, different approaches



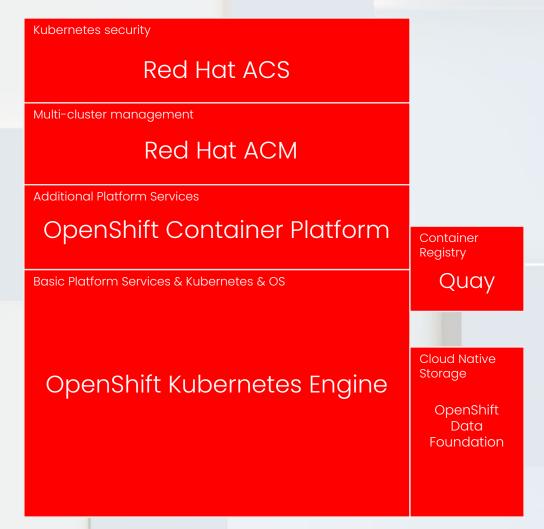
Comparison of stacks

Kubernetes security Multi-cluster management Platform services Kubernetes Cloud Native Storage OS

Kubernetes security Multi-cluster management Additional Platform Services Container Registry Basic Platform Services & Kubernetes Cloud & Native OS Storage

Comparison of stacks - Products

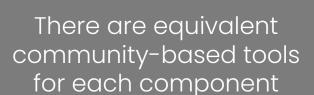
Kubernetes security **SUSE NeuVector** Multi-cluster management & Platform services SUSE RANCHER Kubernetes Cloud Native Storage RKE, RKE2, k3s, AKS, EKS, GKE, any k8s Longhorn Any OS



Similar tools, different processes

Identify OpenShift lock-in features that may impact the migration process

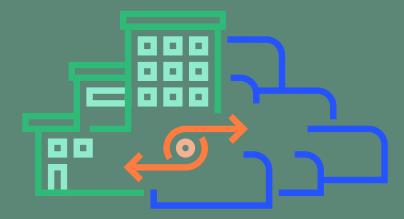
- OpenShift 3 Pipelines & OpenShift DSL
- OpenShift 3 Catalog
- Source2Image, ImageStreams
- DeploymenConfigs
- Expose services with Routes and infrastructure Routers
- OpenShift OVN & SDN
- OpenShift build of Istio
- oc and OpenShift API (use of OpenShift specific CRDs)







Migration process overview



Overview of process

Never forget about the business value of a platform migration

You will need to get the business story of who, why and what for the migration. Business should be supporter during the migration process

- Who: Who are the business owners of the workloads?
- Why: This comes from the business success criteria, and it can be as simple as "to reduce Data Center costs, reduce lock-in, implement multi-cloud strategy, etc."
- What: Focus on one workload to migrate first; this helps shake out the details of what is needed to be successful, so you know what to expect with other workloads.





Overview of process

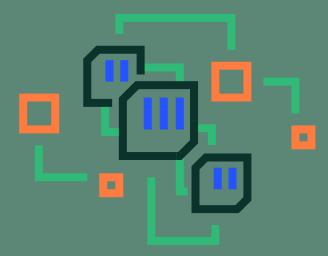
Business value, typical "why?"

- Not to be in a vendor-lock: multi-OS, multi-vendor, multi-cloud
- Painless version upgrades
- Native Kubernetes Experience
- Support to the Kubernetes/CNCF ecosystem
- In Sync with the latest Stable Kubernetes versions
- Community focus and Open Source approach
- Scale and growth
- Cost model





Discover and design



Key discovery questions

- Architecture related
 - Load balancing
 - Traffic ingress model
 - DNS/FQDNs certificates
 - External interdependencies
- Application related
 - Customer created
 - Third party / ISV
 - Stateful / Stateless
 - Middleware components

- Process related
 - Deploy models
 - Separated teams,
 DevOps, mixed
 - CI/CD processes in place

- Location related
 - Same DC/Net
 - Different
 - On-prem to cloud
 - Mixed multi-cloud

Sizing

- How many clusters?
- Average cluster sizes
- Number of namespaces/projects
- Number of persistent volumes

- Storage
 - Storage access model (RWX, RWO, ...)
 - CSI drivers in use

Migration strategy

Migration approaches that wil

- Application redeployment
- CI / CD pipelines target redirection
- Velero based namespace backups*
- State replication
 - Velero based volume backup / restore
 - Third party (Kasten, Portworxs, Longhorn...)

* Only if strictly necessary





Migration support

SUSE Services driven migrations



Methodological approach

Discover

- Align objectives
- Explore solutions
- Outline a roadmap

Discover

Deploy Global Services Optimize

Design

- Dive into technical requirements & priorities
- Validate architecture
- Identify / mitigate project risk

Optimize

- Achieve full adoption
- Get proactive maintenance and support services
- Benefit from knowledge transfer and learn about technology trends

Deploy

- Access open source expertise & best practices
- Ensure successful implementations
- Realize rapid ROI from selected solutions

Migration roadmap

PHASES DISCOVER & DESIGN DEPLOY OPTIMIZE Discuss business objectives and Perform discovery and take inventory Direct access to technical requirements.; Discuss current IT operations/processes of targeted systems for migration professionals to minimize business Review existing k8s landscape (dev/test/prod, as well life cycle policies (migration targets) disruption and maximize uptime and timeframes) Evaluate and analyze applications Access to SUSE Consulting **OBJECTIVES** Review SUSE Subscriptions needs (if any) and how new SUSE solutions will meet that are migrating to rancher experience, tools and best objectives and expective outcomes practices Stage applications on Rancher and Whiteboard integration of new solutions, record configurations • Optimized Rancher management keeping benefits and desired outcomes in mind architecture Deploy the agreed upon solutions Develop and deliver a complete • Ongoing knowledge transfer, best • Design, architecture and migration deployment plan. practices, security guidance, and health roadmaps Installation and configuration Rancher checks providing little known secrets **Develop** high-level design technologies in agreed substrates; Cadence calls & QBRs with SDMs document that includes your **OUTCOMES** stage applications on target cluster Training recommendations/elearning specific use case architectural Integrations, scripts, templates, and/or custom classes requirements images, artifacts, and automations for **Recommendations** on custom or online new infrastructure training to address any skills gaps Supportability confirmation



Platform Engineering Support for SUSE Rancher

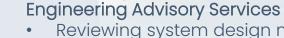
Use cases:

- Used to pilot in dev, test or pre-production environment to determine needs for business.
- Embedded System for ANY Rancher product that the customer will sell to their clients i.e. OEM
- Migration processes that need both consulting and product support

Entitlement for Development, Test & Pre-Production environments

- Rancher Management Server, RKE, k3s, Longhorn
- Standard Support for all development environments (nodes & management server restricted)
- Engineering Advisory Services delivered remotely for up to 100hrs / 200hrs
- Design / Engineering cadence every 2 weeks to track milestones & progress

Program components



- Reviewing system design materials
- Provide operational best practices
- Review container development pipeline
- Guidance for security processes
- Designated SME familiar w/your project
- Open cases & leverage for advice



8 x 5 NBD Standard Support

- Trouble shoot & break fix throughout development life cycle.
- Full stack support for container runtime, Kubernetes, & Rancher



Thank you



For more information, contact SUSE at:

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