

BP-1262

From Openshift to SUSE Rancher, the value of staying open

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Introducing the speakers



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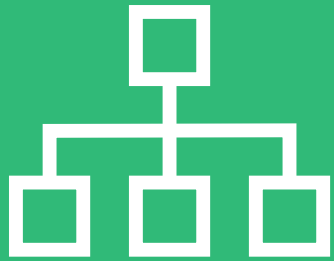
The 1st customer call after SUSE Rancher acquisition

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

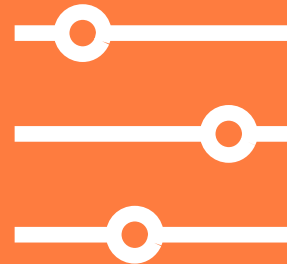
SUSE Rancher Unique Approach



It's a multi-cluster world



Treat all
Kubernetes
distributions as
first class citizens



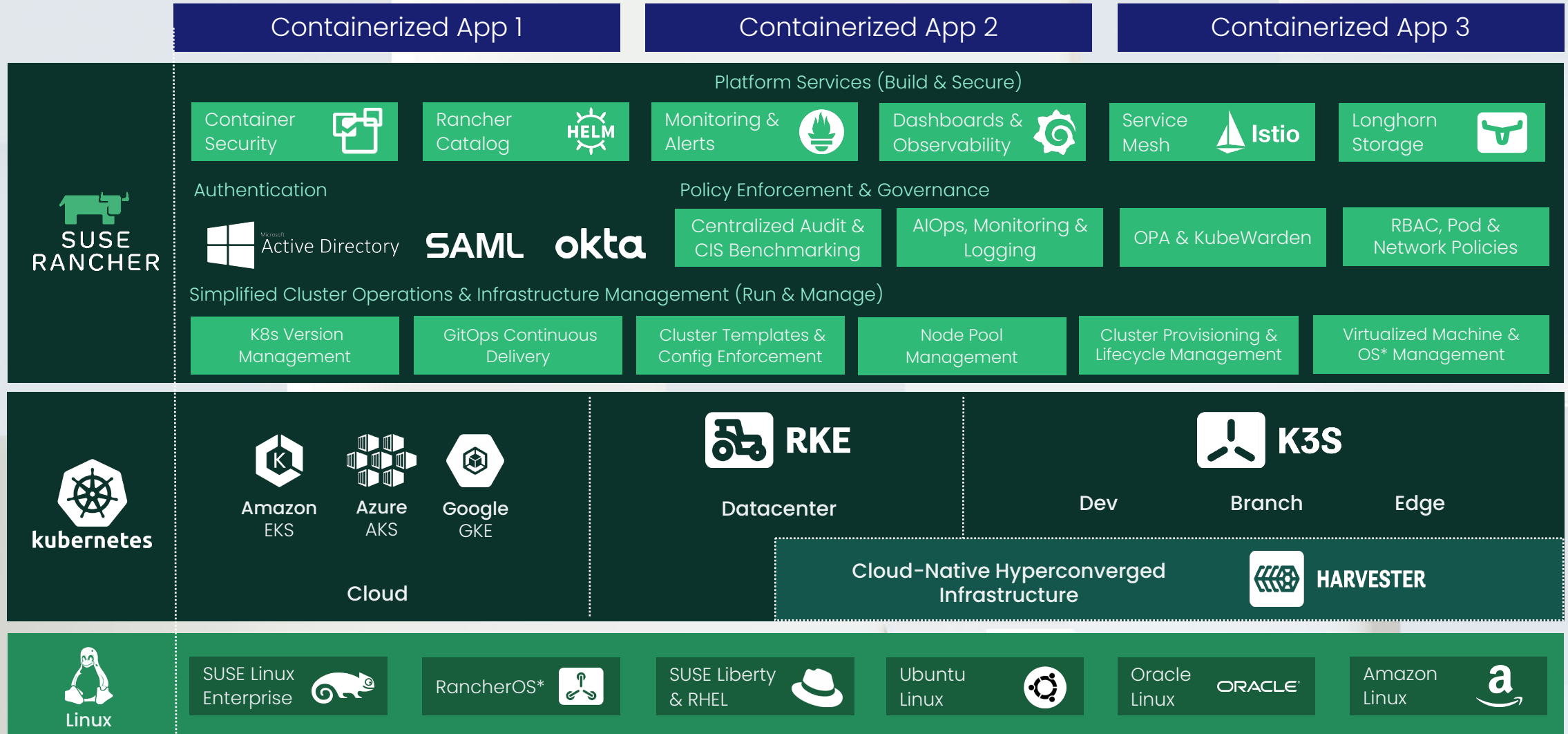
Value is in
Kubernetes
management



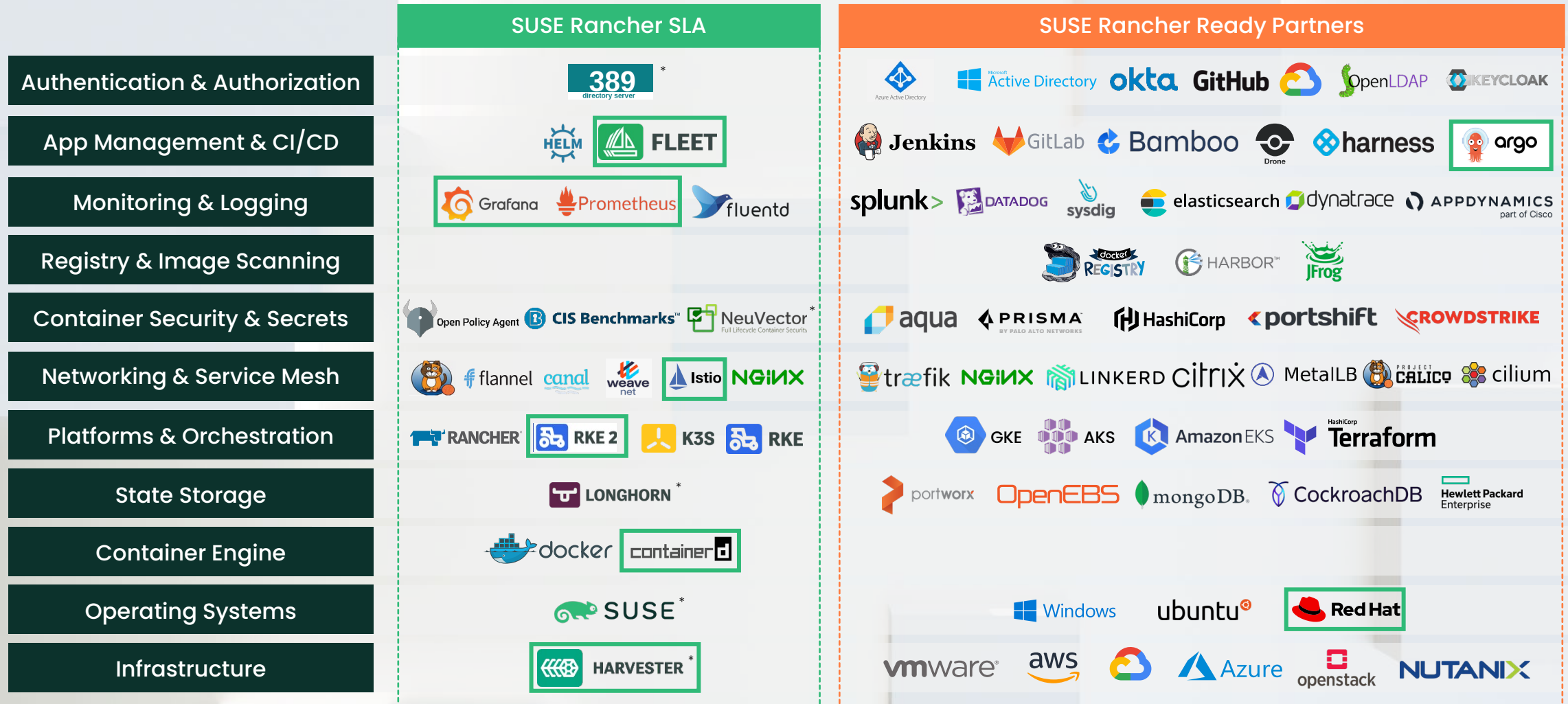
'Open' approach
to open source



Simplify complexity across your infrastructure



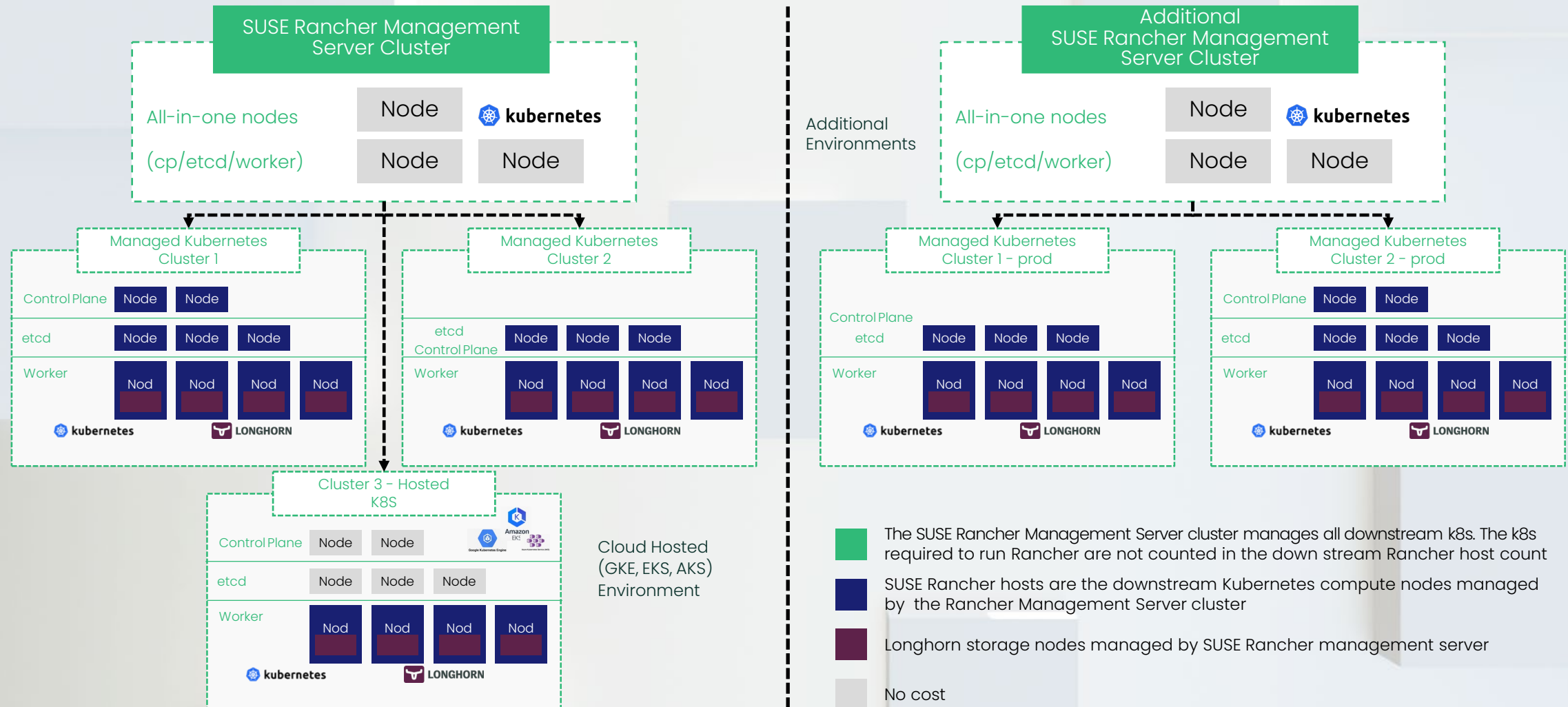
SUSE Rancher & Ready Partner platform services



* Requires separate subscription

[SUSE Rancher partner catalog](#)

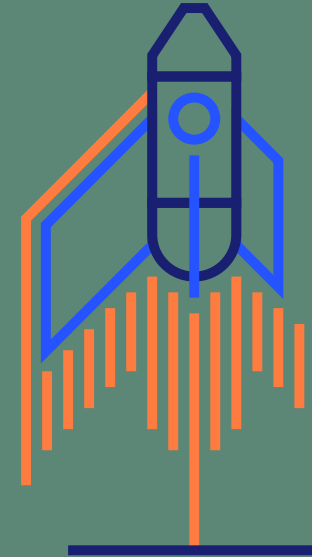
Typical SUSE Rancher + Longhorn Setup



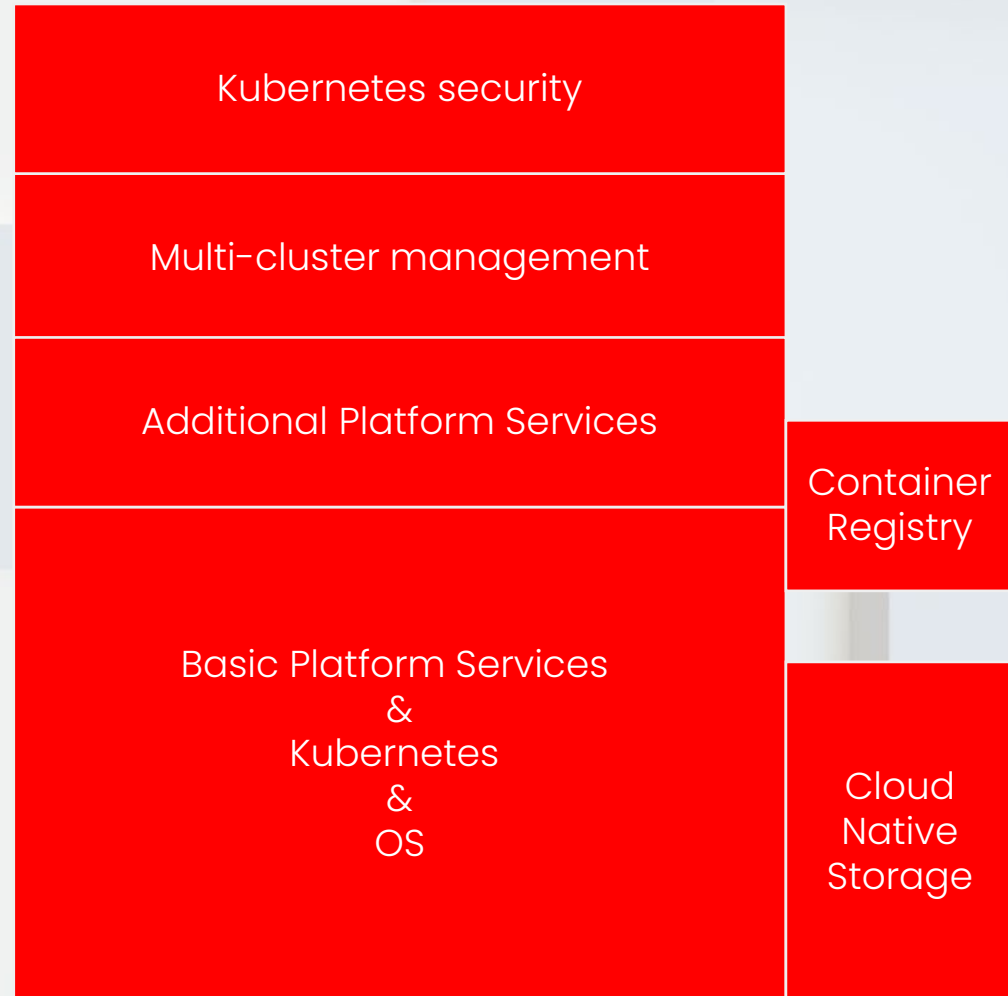
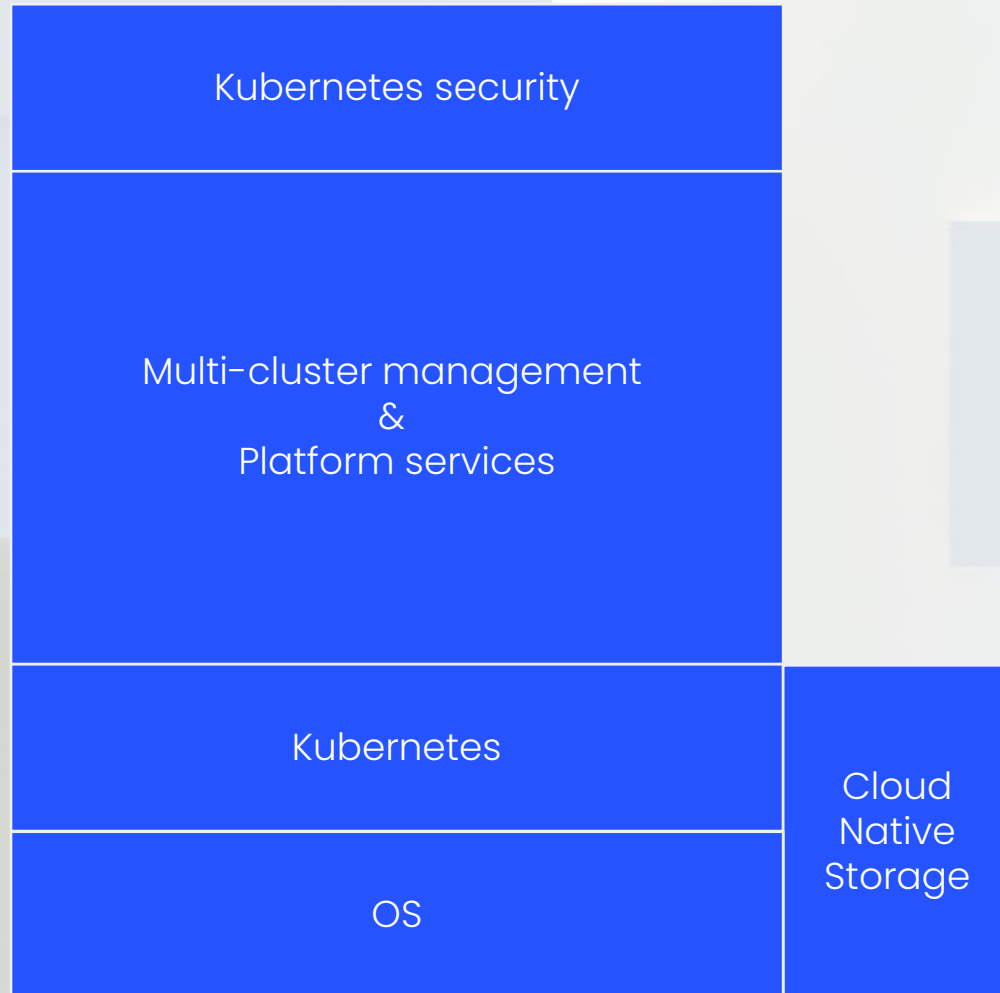
Eval / POC / importing OCP under Rancher

Understanding value propositions

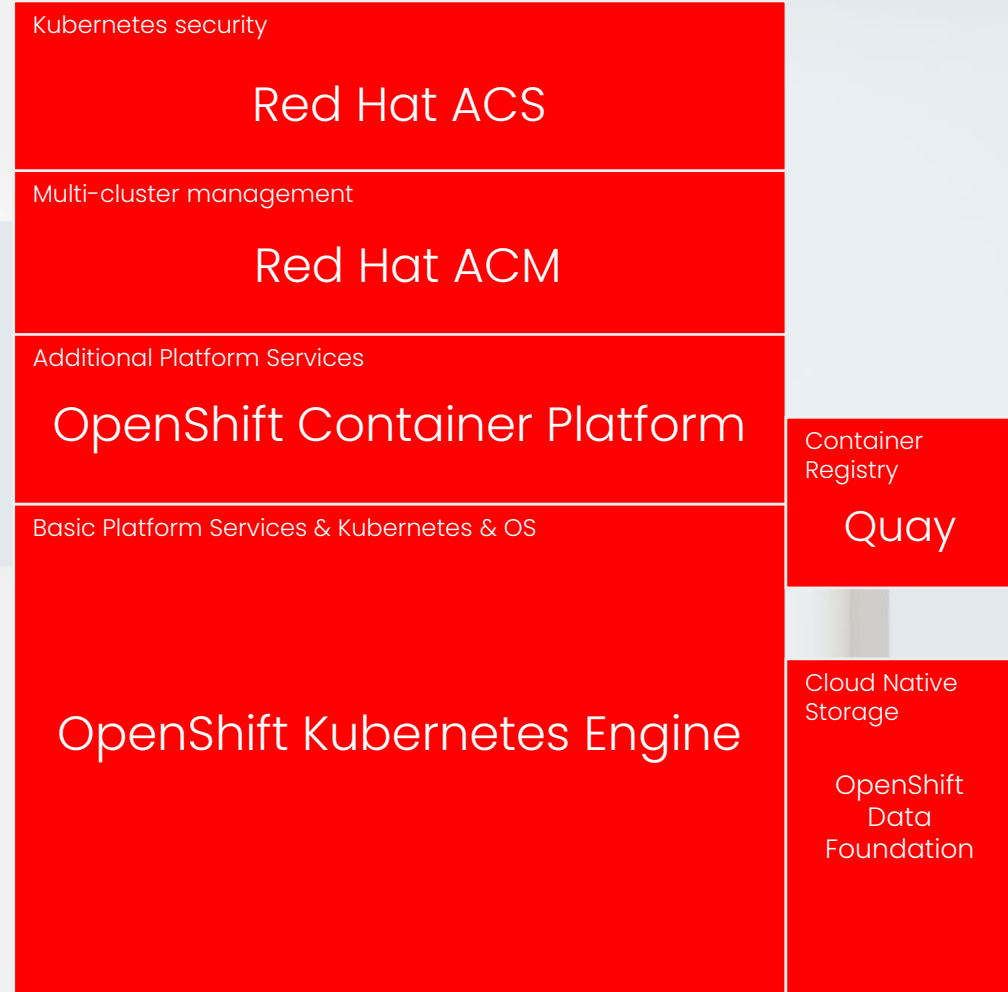
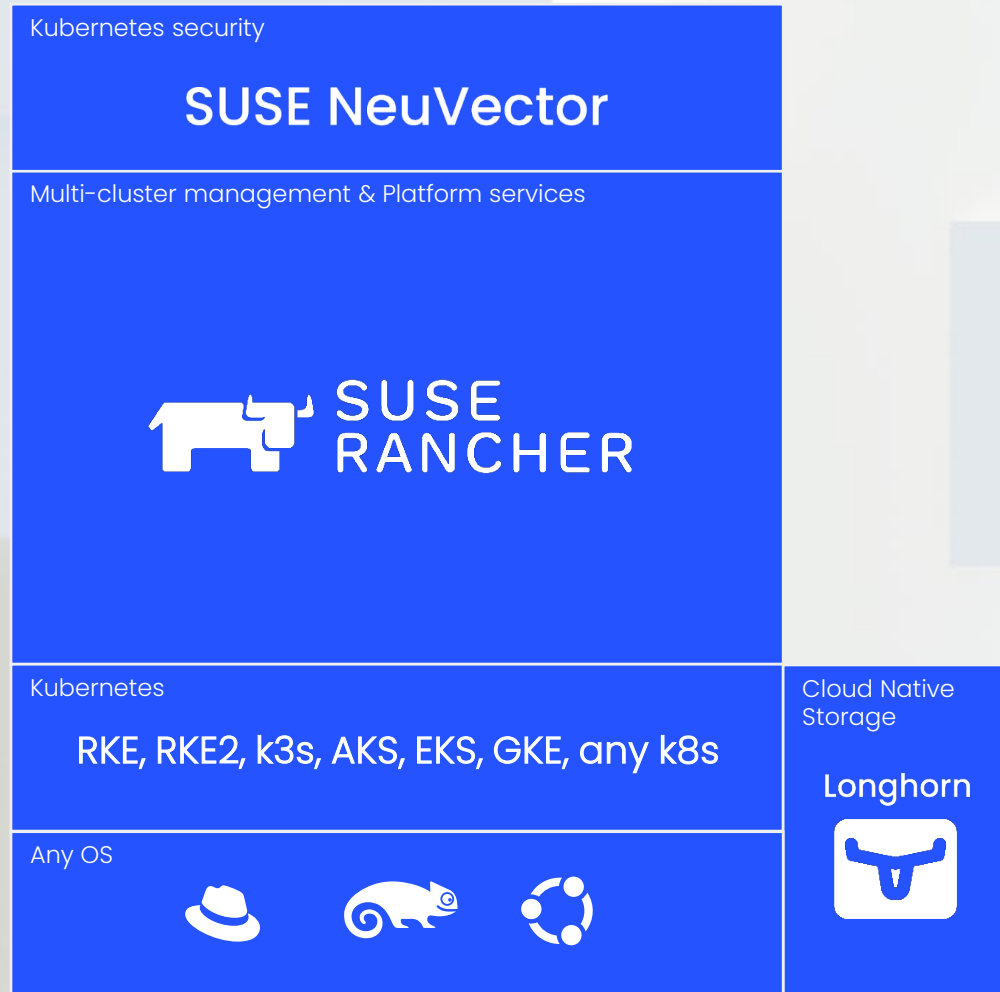
Same space, different approaches



Comparison of stacks



Comparison of stacks - Products



Similar tools, different processes

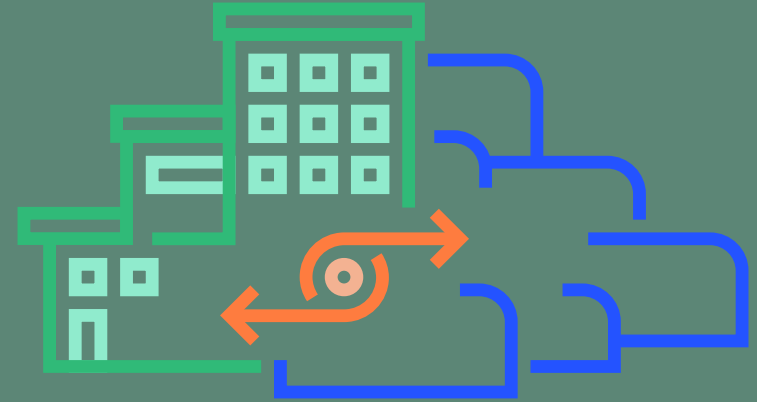
Identify OpenShift lock-in features that may impact the migration process

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



There are equivalent community-based tools for each component

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

Design

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

Discover

Design

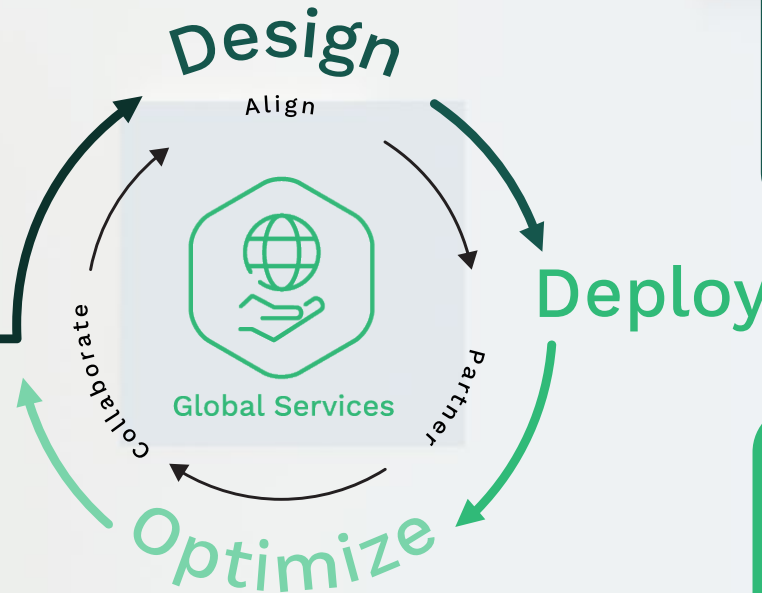
Deploy

Optimize

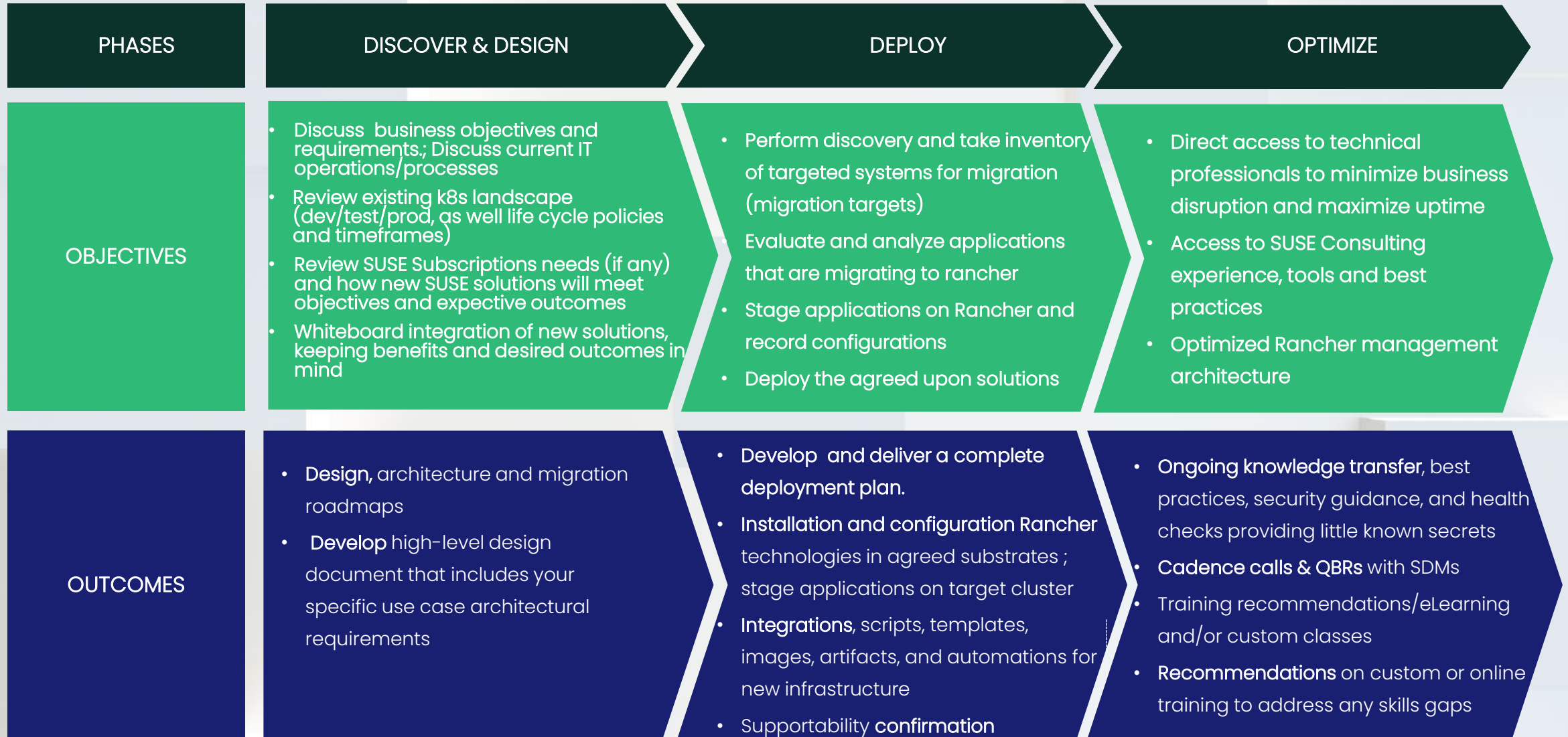
- Achieve full adoption
- Get proactive maintenance and support services
- Benefit from knowledge transfer and learn about technology trends

Deploy

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



Migration roadmap



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



Engineering Advisory Services

- 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



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