



28.11.2023

# Multi-Cloud- Management with Rancher Prime & Kasten K10

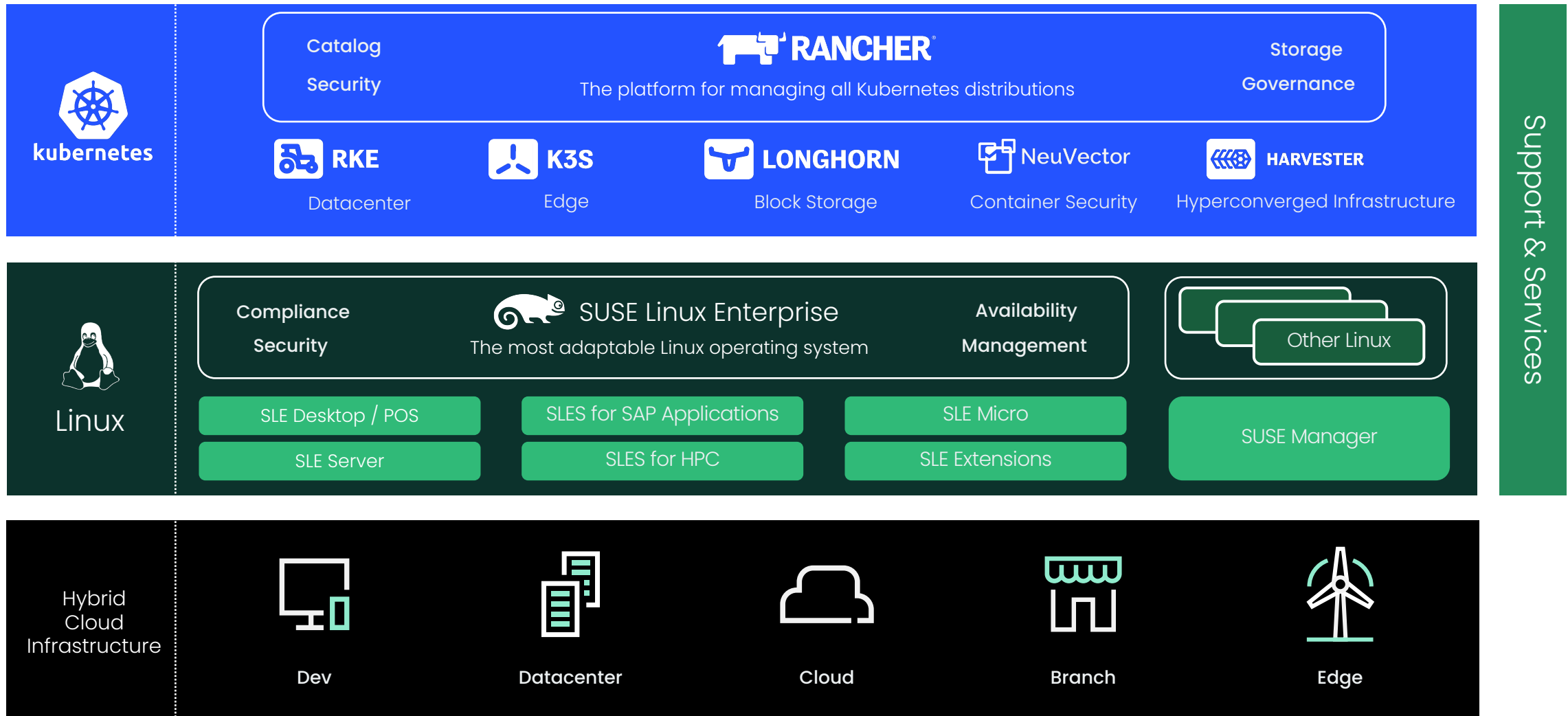
Ferdinand Zilcher

# Agenda

1. Kubernetes 101
2. Multi-Cluster and Multi-Cloud Management
3. The Power of Rancher Prime
4. SUSE Rancher Architecture
5. Demo



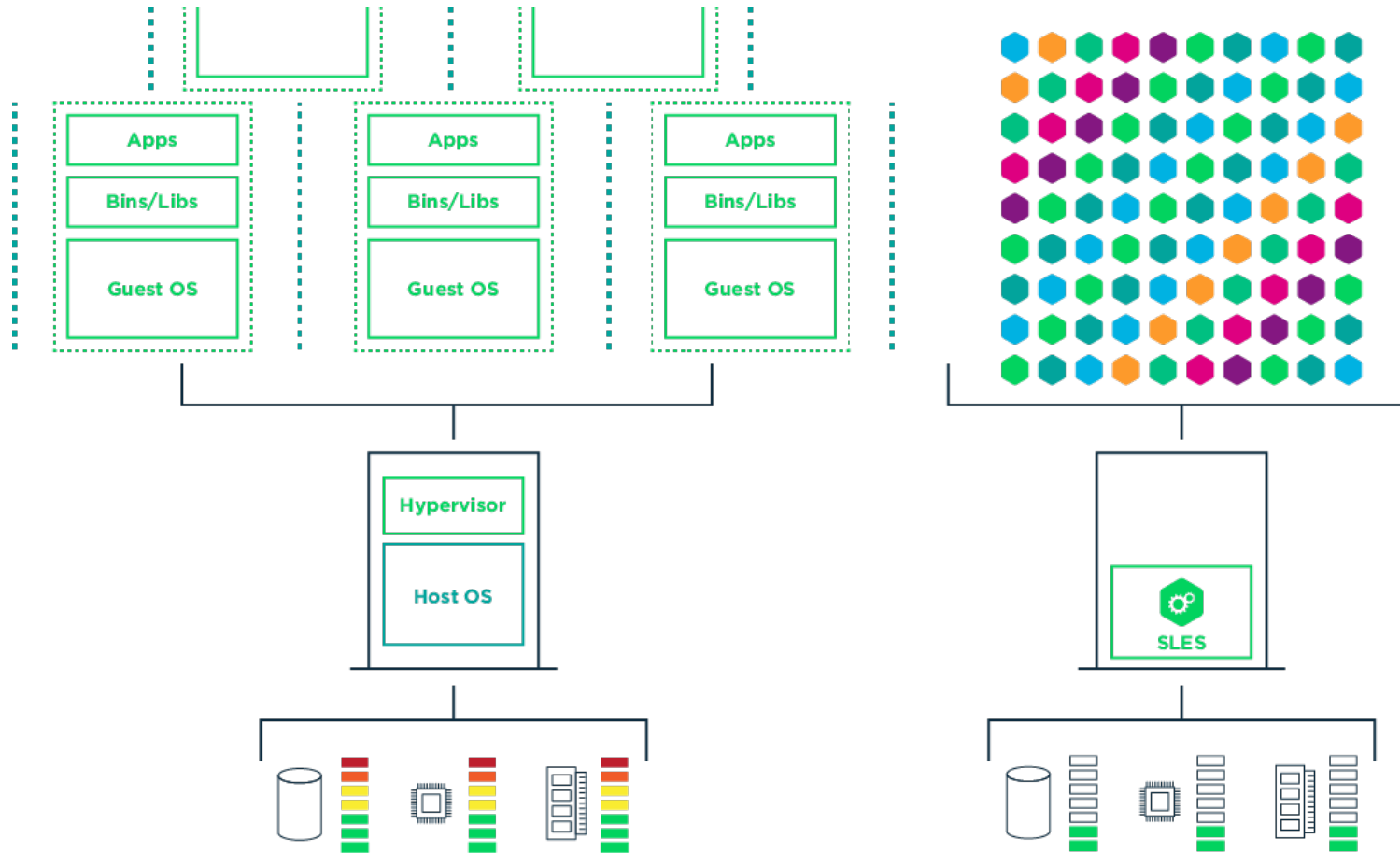
# Powering Innovation With Leadership in Linux & Kubernetes



# Kubernetes 101

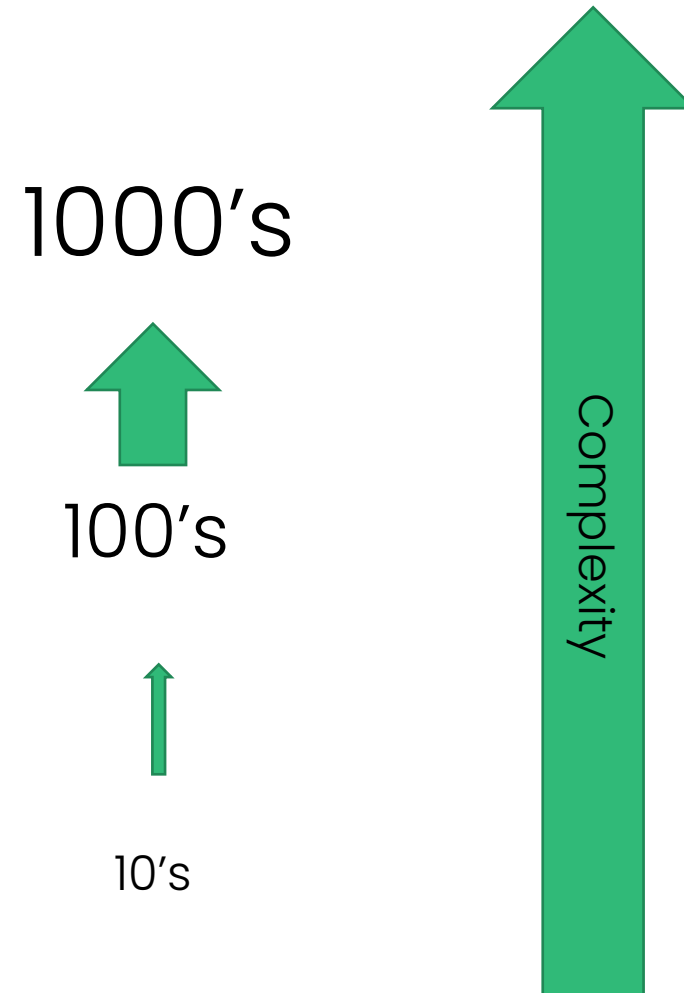


# Containers vs Virtual Machines



# Container Management

- ✓ Manage images
- ✓ Deploy containers
- ✓ Integrate services
- ✓ Manage demand
- ✓ Balance resources
- ✓ Manage network communications
- ✓ Balance workloads



# Introducing Kubernetes

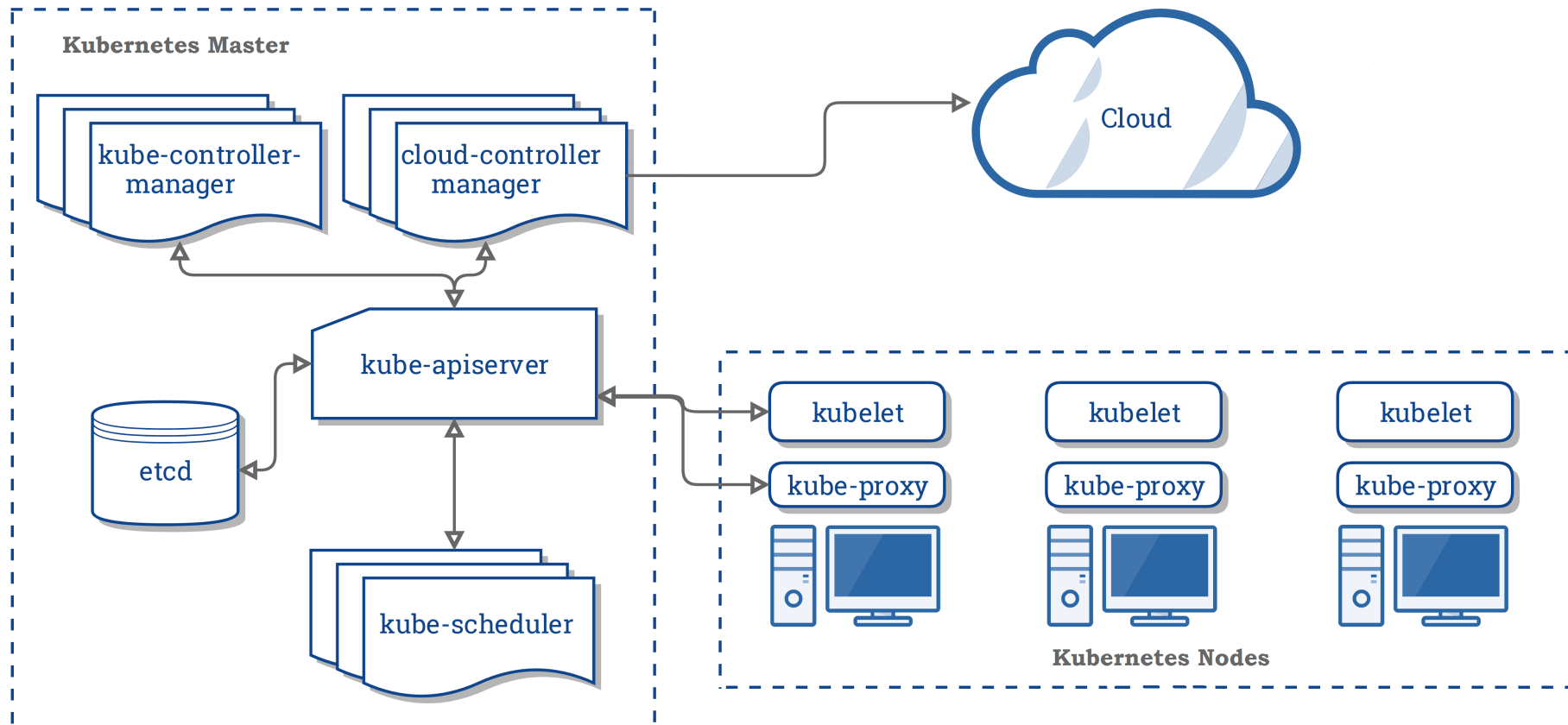
- Open Source
- Container Management
- Container Orchestration
- Manage 1000's of containers



Kubernetes, also known as K8s, is an open-source system for automating deployment, scaling, and management of containerized applications.



# Kubernetes Architecture

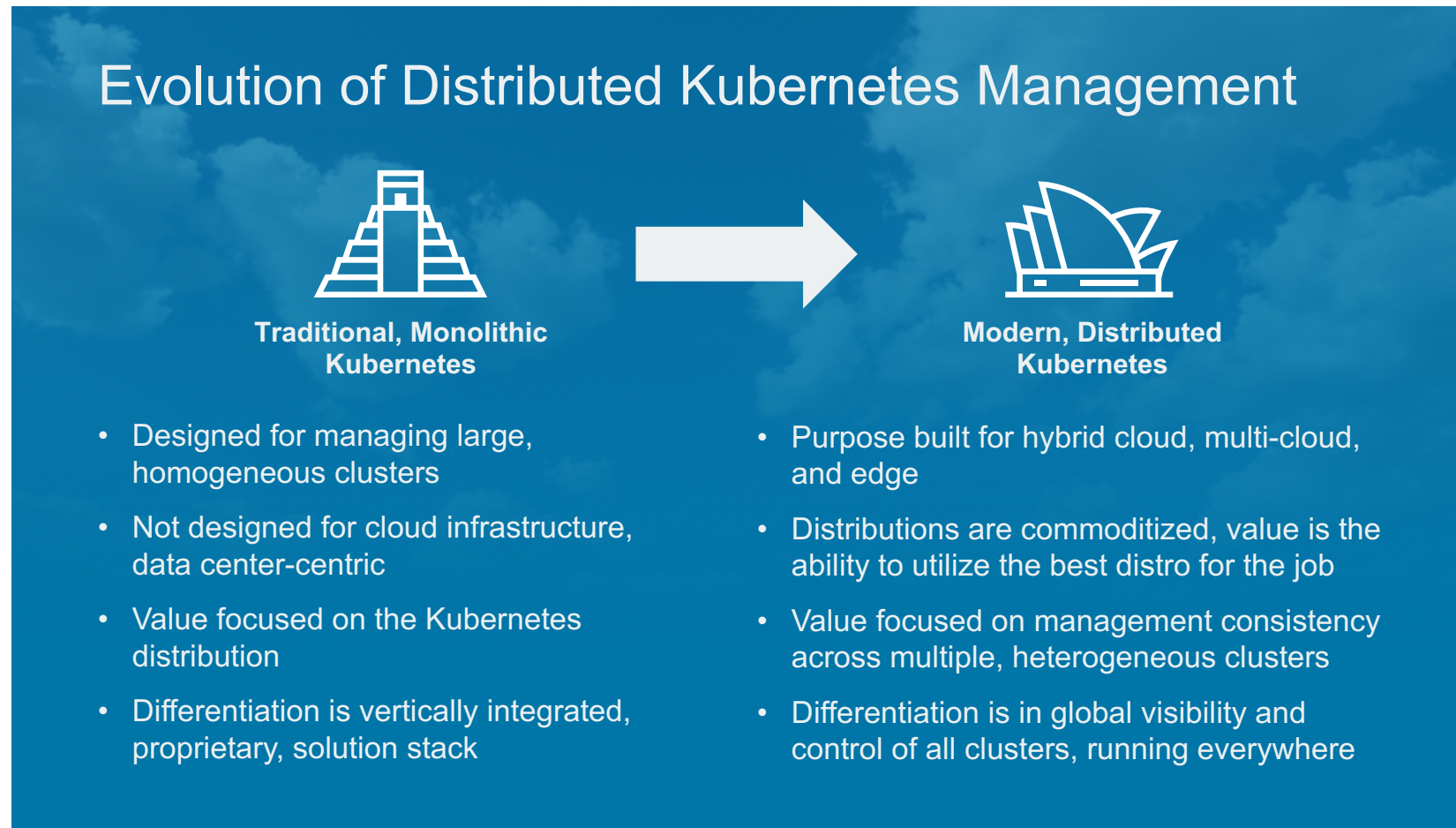




# Multi Cluster and Multi Cloud Management



# Why multi-cluster management matters



# Manage your Kubernetes with Rancher Prime

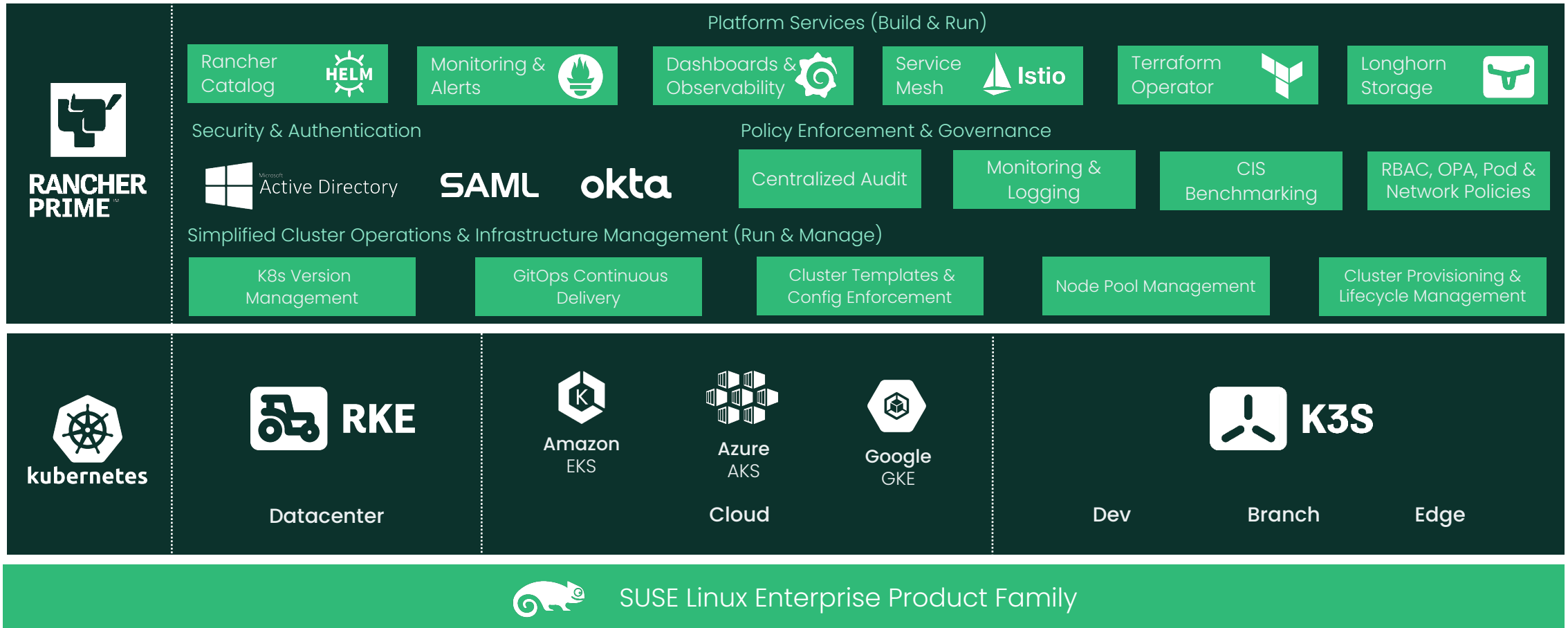


# Enables Production Quality Kubernetes Everywhere

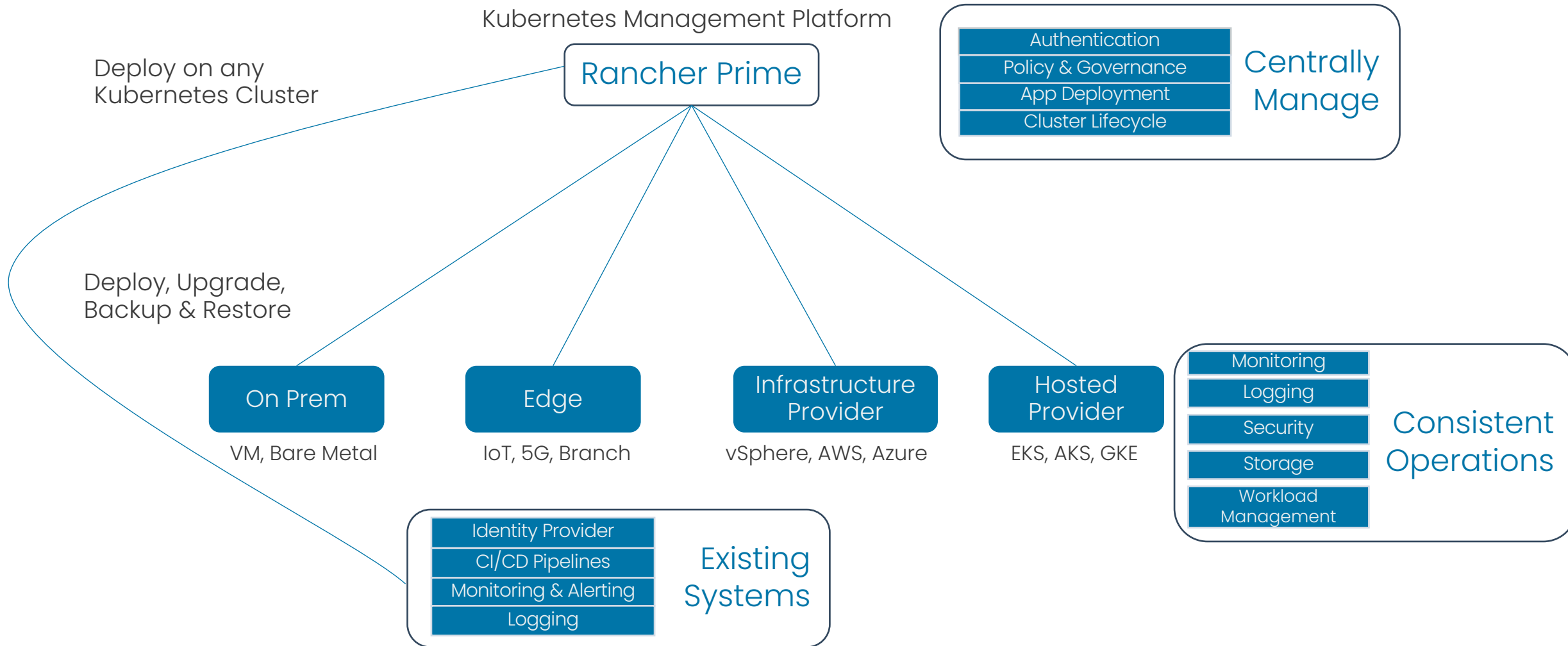
Containerized App 1

Containerized App 2

Containerized App 3



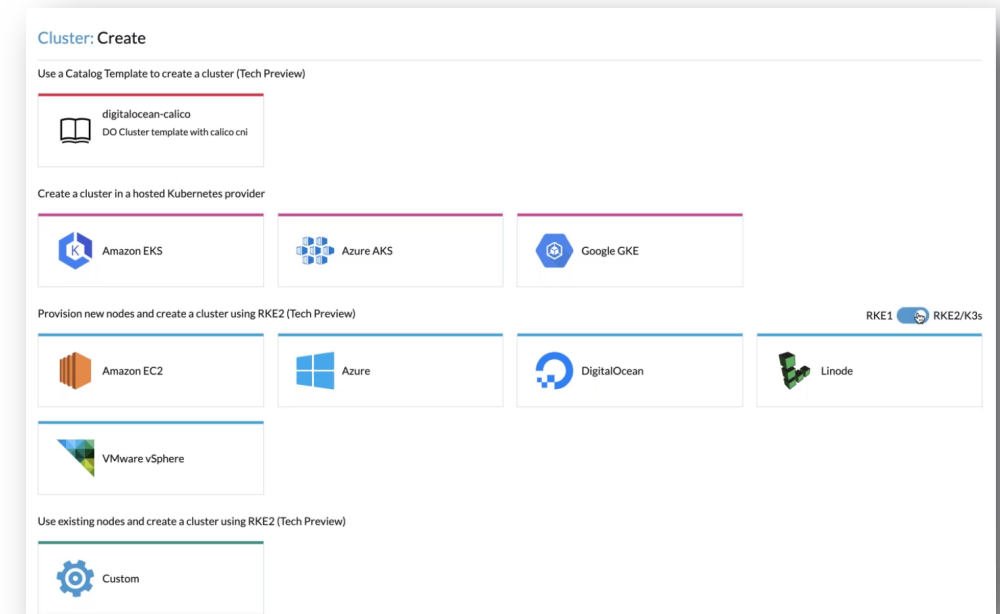
# Whiteboard Architecture



# Cluster Operations and Management

Rancher Prime dramatically reduces the implementation and day-2 operations effort normally associated with the Kubernetes platform

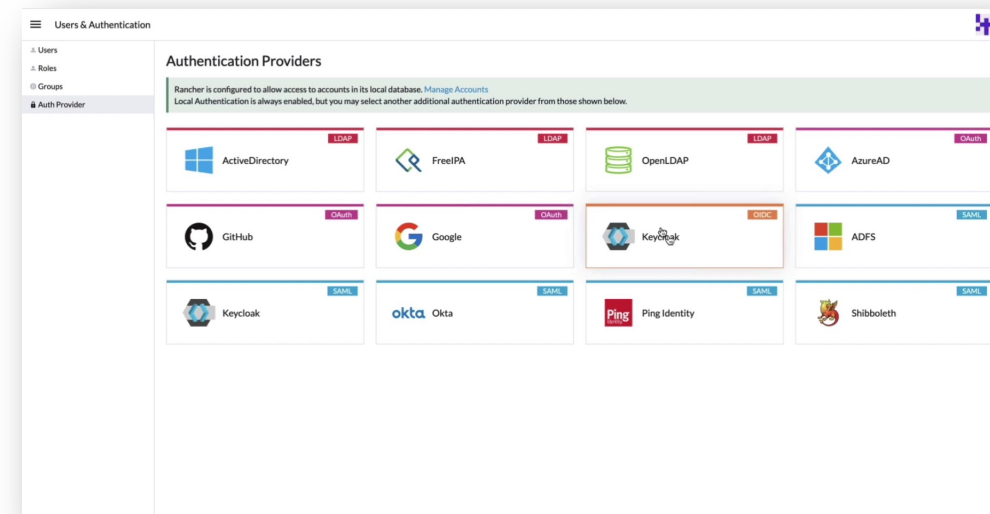
- Provision Kubernetes on any infrastructure provider using a consistent UI and API.
- Manage the complete cluster lifecycle, including upgrades, scaling, and disaster recovery.
- First-class support of cloud-hosted Kubernetes, such as AWS EKS, Azure AKS and Google GKE.
- Powerful API for automation and 3rd-party service integrations.



# Unified Access Control, Security and Policy Management

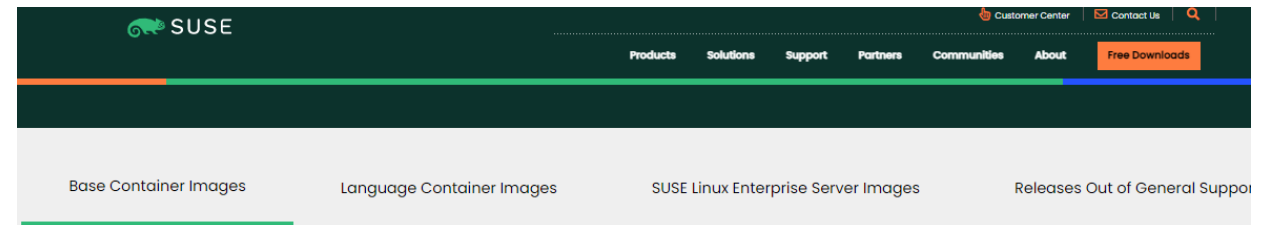
Rancher enables central authentication, access management and consistent policy management

- Easily integrate all Kubernetes environments with existing enterprise auth provider (AD, LDAP, Keycloak, etc.)
- Efficient centralized access control management (building on Kubernetes RBAC)
- Management of multi-tenant clusters (Rancher Projects)
- Central management of security and network policies
- Cluster hardening with RKE cluster templates, CIS Benchmark compliance scans and OPA policy management



# Secure Images

- CVE Scanning for Rancher images
- Integration with SUSE Linux Enterprise Base Container Image



## Base Container Images

Lightweight images for container development

<b>SLE BCI 15 SP4 Base Container Image</b> Image for containers based on SUSE Linux Enterprise Server 15 SP4. <a href="#">Show details &gt;</a>	<b>SLE BCI 15 SP4 Minimal Container Image</b> A minimal environment for containers based on the SLE Base Container Image. <a href="#">Show details &gt;</a>	<b>SLE BCI 15 SP4 Micro Container Image</b> A micro environment for containers based on the SLE Base Container Image. <a href="#">Show details &gt;</a>
<b>SLE BCI 15 SP4 Init Container Image</b> Systemd environment for containers based on the SLE Base Container Image. This container is not supported when using container runtime other than podman. <a href="#">Show details &gt;</a>	<b>SLE BCI 15 SP4 Busybox Container Image</b> Busybox based on the SLE Base Container Image. <a href="#">Show details &gt;</a>	<b>SLE BCI 15 SP3 Minimal Container Image</b> A minimal environment for containers based on the SLE Base Container Image. <a href="#">Show details &gt;</a>

Try it for free:  
<https://registry.suse.com/>

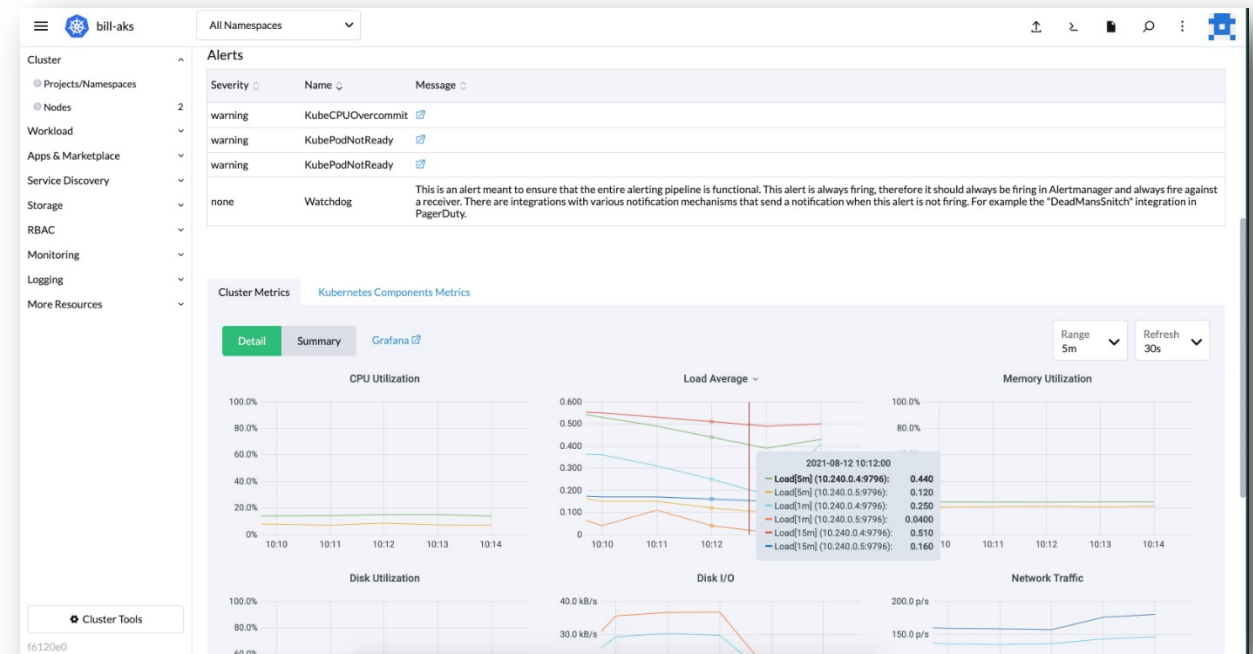















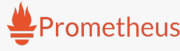




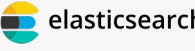

















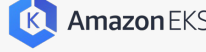
















# Workload Management

Rancher Prime provides a complete GUI for workload management and self-service.

- GUI to manage Kubernetes workloads and cluster resources.
- Provides an integrated application catalog based on Helm.
- Turnkey configuration of add-on services for log shipping, monitoring, service mesh or continuous delivery.



# Rancher Prime Integrations

	Rancher Prime SLA	Certified Integrations
Authentication & Authorization		   
App Management & CI/CD	 	   
Monitoring & Logging	  	   
Registry & Image Scanning		  
Container Security & Secrets		  
Networking & Service Mesh	  	   
Platforms & Orchestration	 	   
Persistent Storage		  
Container Engine	 	
Operating Systems		   
Infrastructure Drivers		    

# Demo





# Thank you

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