





如何统一纳管多基础架构上的K8S集群

December 23th, 2017



Agenda



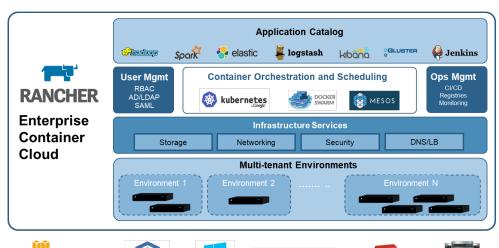
- Rancher 1.x & Kubernetes
- Rancher 2.0 Architecture & Features
- Demo



Rancher 1.x



- Based on docker and docker-compose, simple and Intuitive
- Overlay networking, multi-cloud environments, health checking, load balancing, storage volume drivers, scheduling, and other features

















Kubernetes in Rancher



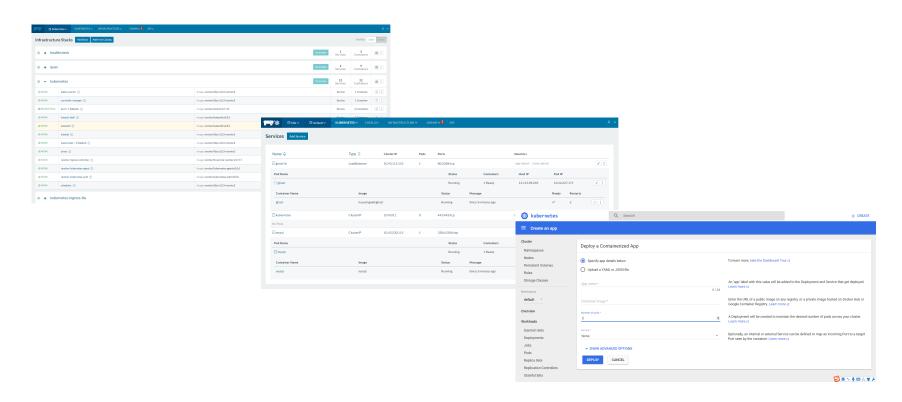


	addon-starter ①	Image: registry.cn-shenzhen.aliyuncs.com/rancher_cn/k8s:v1.7.2-rancher7
& Active	controller-manager ①	Image: registry.cn-shenzhen.aliyuncs.com/rancher_cn/k8s:v1.7.2-rancher7
	etcd + 1 Sidekick ①	Image: rancher/etcd:v2.3.7-13
	kubectl-shell ①	Image: rancher/kubectld:v0.8.2
	kubectld ①	Image: rancher/kubectld:v0.8.2
	kubelet ①	Image: registry.cn-shenzhen.aliyuncs.com/rancher_cn/k8s:v1.7.2-rancher7
	kubernetes + 1 Sidekick (j)	Image: registry.cn-shenzhen.aliyuncs.com/rancher_cn/k8s:v1.7.2-rancher7
	ргоху ①	Image: registry.cn-shenzhen.aliyuncs.com/rancher_cn/k8s:v1.7.2-rancher7
& Active	rancher-ingress-controller ①	Image: rancher/lb-service-rancher:v0.7.8
	rancher-kubernetes-agent ① Agent responsible for handling communicat	Image: rancher/kubernetes-agent:v0.6.3 ions between Rancher and Kubernetes.
Active	rancher-kubernetes-auth ① Small service that bridges authentication be	Image: rancher/kubernetes-auth:v0.0.7 etween Rancher and Kubernetes.
& Active	scheduler ①	Image: registry.cn-shenzhen.aliyuncs.com/rancher_cn/k8s:v1.7.2-rancher7



Rancher 1.x & Kubernetes

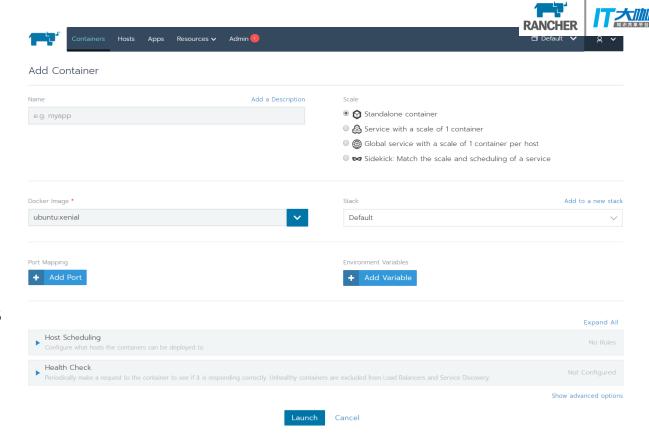






Rancher 2.0

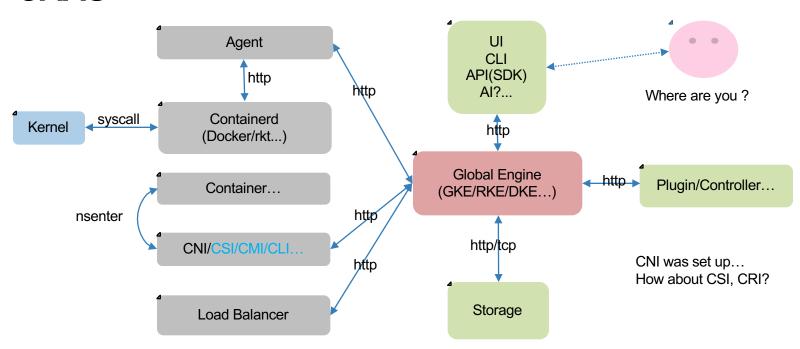
- Based on Kubernetes with compose support
- Features along with Kubernetes





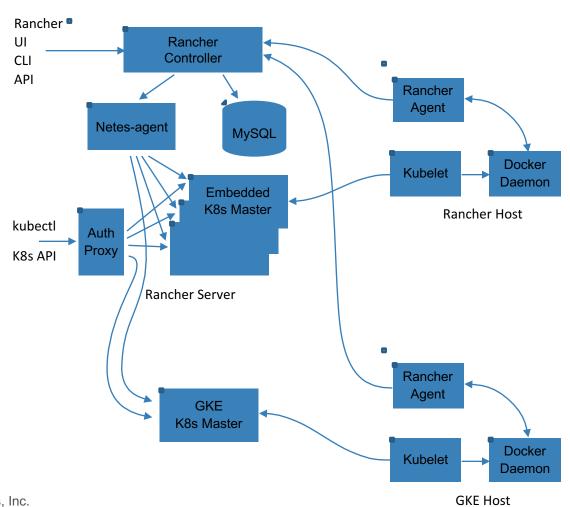
CAAS







Rancher 2.0 Tech Preview 1





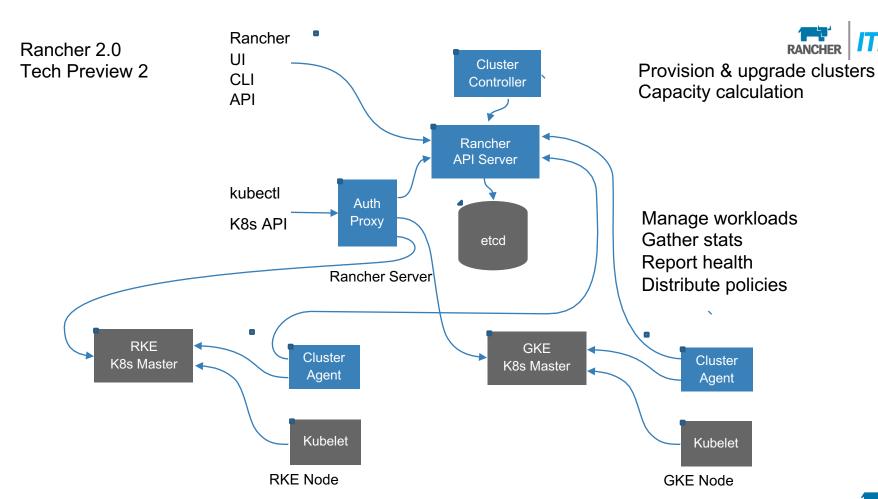


Feedback from Tech Preview 1



- Like: the capabilities brought by Kubernetes: RBAC, shared host environments, storage and networking plugins, ...
- Like: the ability to import Kubernetes clusters
- Don't like: running Kubernetes on mysql







Rancher Kubernetes Engine (RKE)



- Simple, fast, works anywhere
 - Kops deep cloud integration
 - Kubespray RKE is built on containers and is simpler and faster
- Install/maintain/upgrade from a single cluster.yml file
- Easily embeddable into third-party apps





DEMO



