

Intro to Rancher Desktop 1.3









Who Am I?

Mike 'MJ' Johnson DevSecOps Engineer - CTO AlphaBravo

- 25 years in Information Technology
- 10 years in Cloud Infrastructure
- 6 years in Container Management
- 5 years in Kubernetes Management
- Worked for RedHat, Infor, SiriusXM



e-mail: mj@alphabravo.io github: mjtechguy / abenginerd



Agenda

- What is Rancher Desktop and Why Was It Created?
- Demo of Deploying Containerized App
- Demo of Deploying an app using Helm
- Demo of App Working after Kubernetes Upgrade
- Demo Working with Internal Services In Kubernetes
- Recap and next Steps











Kubernetes on the Desktop

When you think of Kubernetes on the Desktop, what do you think of?







Kubernetes on the Desktop Options?

- Kind (Kubernetes In Docker): Originally created for testing Kubernetes itself.
- Minikube: Longest active Kubernetes local dev box. Runs on Docker out of the box. Can use VMS
- K3d (K3s in Docker): Runs a multi-node capable version of K3s on Docker



























Themes in Common

- They All Rely On Docker
- They are all CLI Based Tools (No UI)





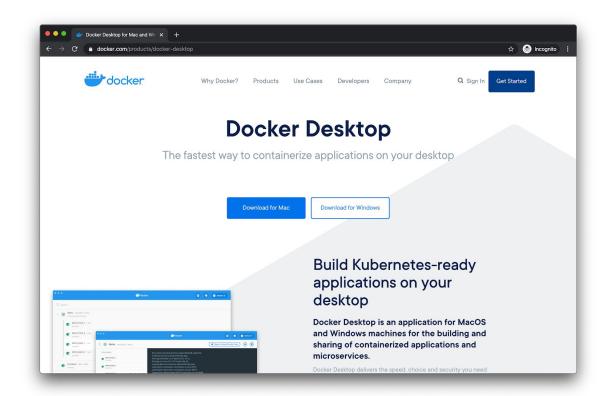






Docker Desktop

Closed Source. Coupled with Docker. Only one version of Kubernetes.

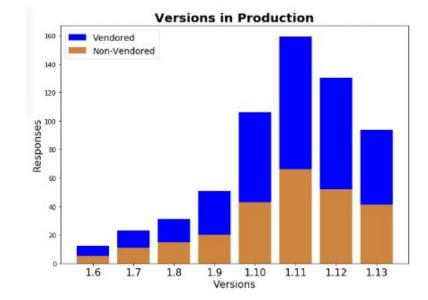






Many Versions of Kubernetes in Use

Survey are varied and even within the same org they may differ.











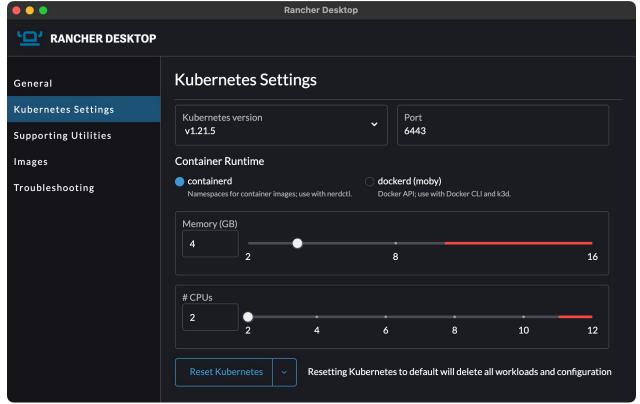
Rancher Determined There Were No Great Open-Source Kubernetes Desktop Apps.

So they created one. And made it open-source.











Where Does Rancher Desktop Run?

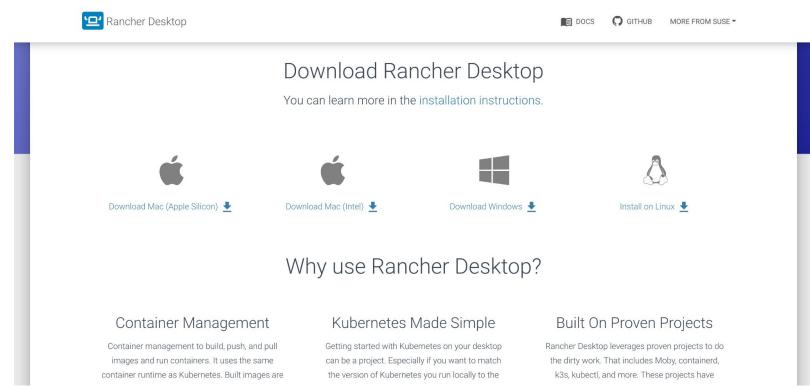






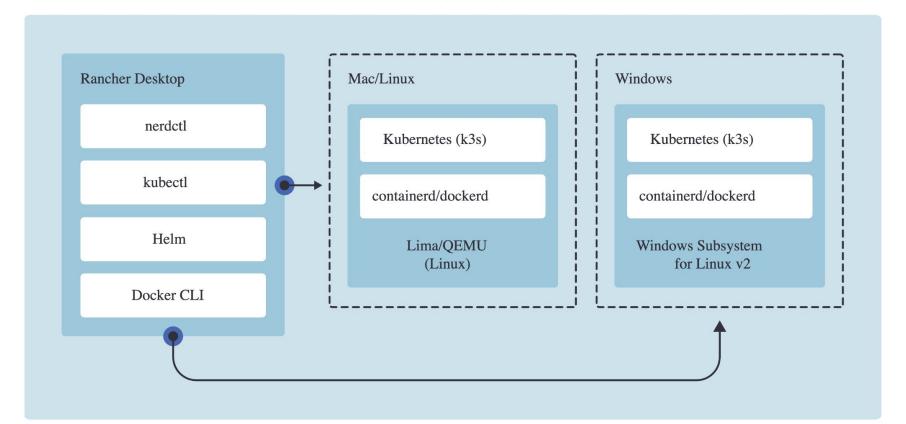


Download at https://rancherdesktop.io





Architecture





Design Goals

Choose the version you want. Very rarely is the latest version of K8s used in Prod

Leverage Upstream Projects. Use well known and supportable products

Completely Open
Source. No hidden magic



Seamless Upgrades.

Test applications across version changes

Easy Install. Available for Mac, Windows and Linux

Container Toolchain.
Build, Push, Pull images
along with running
containers



Demo / Workshop Time







Demo and Lab Repositories

Presentation Repo:

https://github.com/AlphaBravoCompany/rancher-desktop-demo

Code Repo:

https://github.com/abenginerd/dc-hello-world

Helm Repo:

https://github.com/abenginerd/dc-hello-world-chart









Questions?

Thank You!

