

# Dynamic Monitoring with Prometheus and Rancher

# Rancher Labs

## OUR PRODUCTS



A software platform for deploying a private container service.



A minimalist OS built explicitly to run Docker

# INFINITYWORKS

Help companies and teams solve hard  
problems

Utilising the latest technology to act as enabler for  
improvement



# 'Dynamic' Monitoring?

- Open Source, you can contribute and adapt the solution to your platform (e.g. Vulcan)
- Extendable through easy to write exporters
- Able to collect and store information en-masse, before you need it
- Service Discovery...

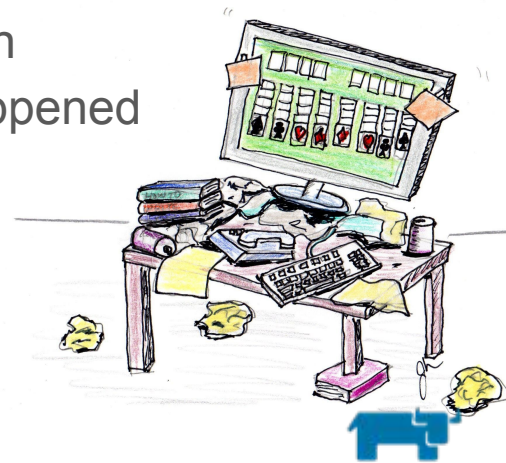
# Service Discovery

- DNS based discovery
- Consul / Azure / ec2 etc..
- File based service discovery, allows discovery through other info (metadata/host labels)



# Why is monitoring changing...

- Your business is evolving every minute of every day, yet only Bob looks after monitoring, he's on leave until next Tuesday
- Avoid monitoring becoming a hobby / second rate citizen
- Troubleshooting an unforeseen issue, that's already happened
- Embed good practice in our development teams








# How we discovered Prometheus

- Moving from a “static” infrastructure to docker
- Rethink of the toolset surrounding the platform
- Prototyped a bunch of different solutions
- Had to be Open Source





# Rancher: Complete Container Management









## Applications

 Alfresco An ECM and BPM platform. <a href="#">View Details</a>	 Apache Kafka (Experimental) Kafka cluster <a href="#">View Details</a>	 Apache Zookeeper (Experimental) Zookeeper cluster <a href="#">View Details</a>	 ascinema-org Ascinema is a free and open source solution for recording terminal sessions and sharing them on the web. <a href="#">View Details</a>	 CloudFlare DNS Rancher External DNS service powered by CloudFlare. <a href="#">View Details</a>
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## Orchestration

 Cattle	 kubernetes	 Mesos	 Swarm
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## Infrastructure

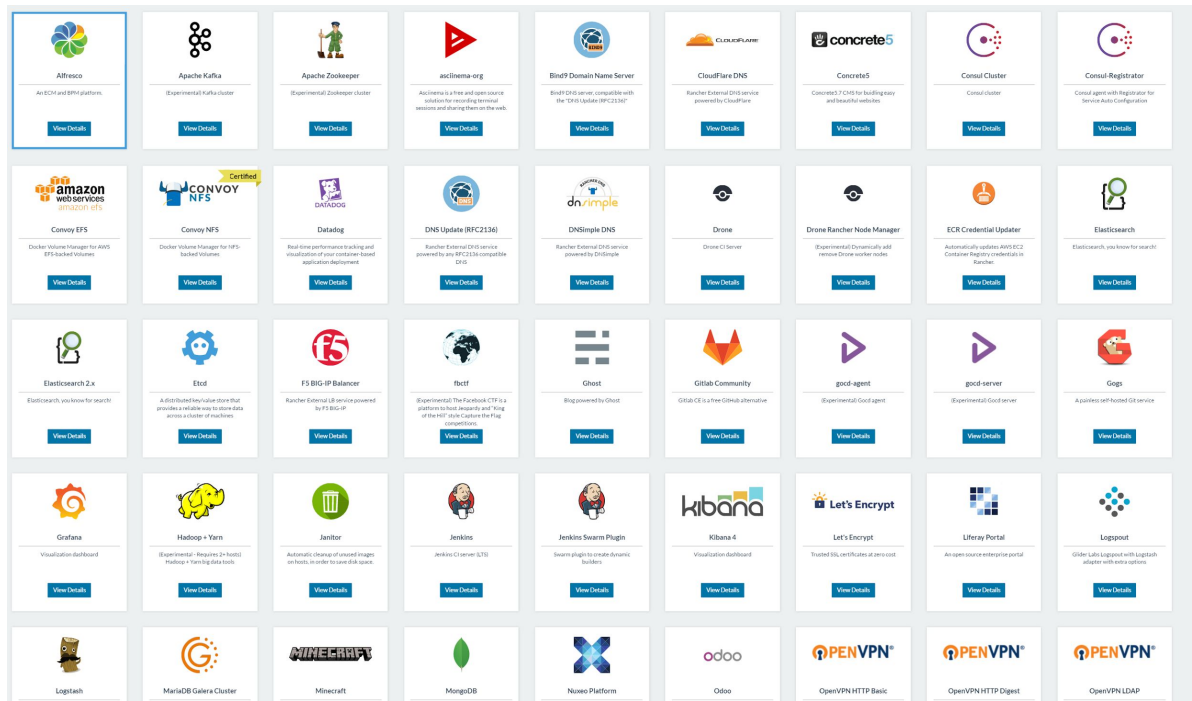
 AMAZON EC2	 Azure	 DigitalOcean	 packet	 rackspace	 vSphere
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# Rancher Community

Open source tools are awesome, such a strong community

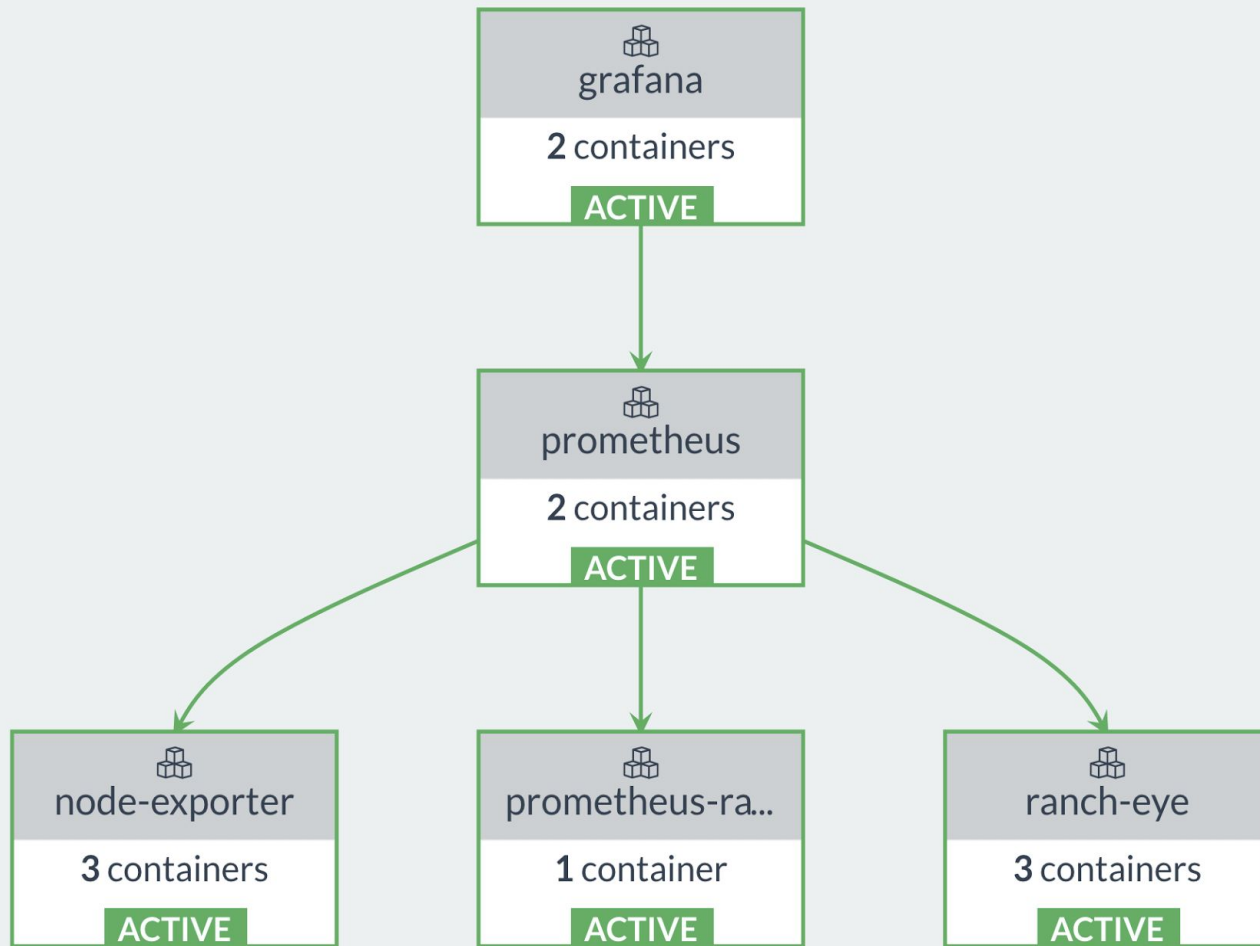
- Certified Catalog
- Community Catalog
- Private Catalog



# Prometheus & Rancher



Demo



# Changing how we think about monitoring...

- Opportunity to rid ourselves of legacy monitoring solutions based on outdated principles
- Building in monitoring into our solutions from the get-go
- Ability to demonstrate value of our monitoring, not only to our engineers, but to all the key stakeholders in a system
- Understanding the differences between metrics, logs and events

# Thanks!

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