



#ibmdevconnect

**Love K8s?? Now, manage your containers with it on
IBM Bluemix® Container Service**

Vidyasagar Machupalli

Offering Manager for Dev Productivity

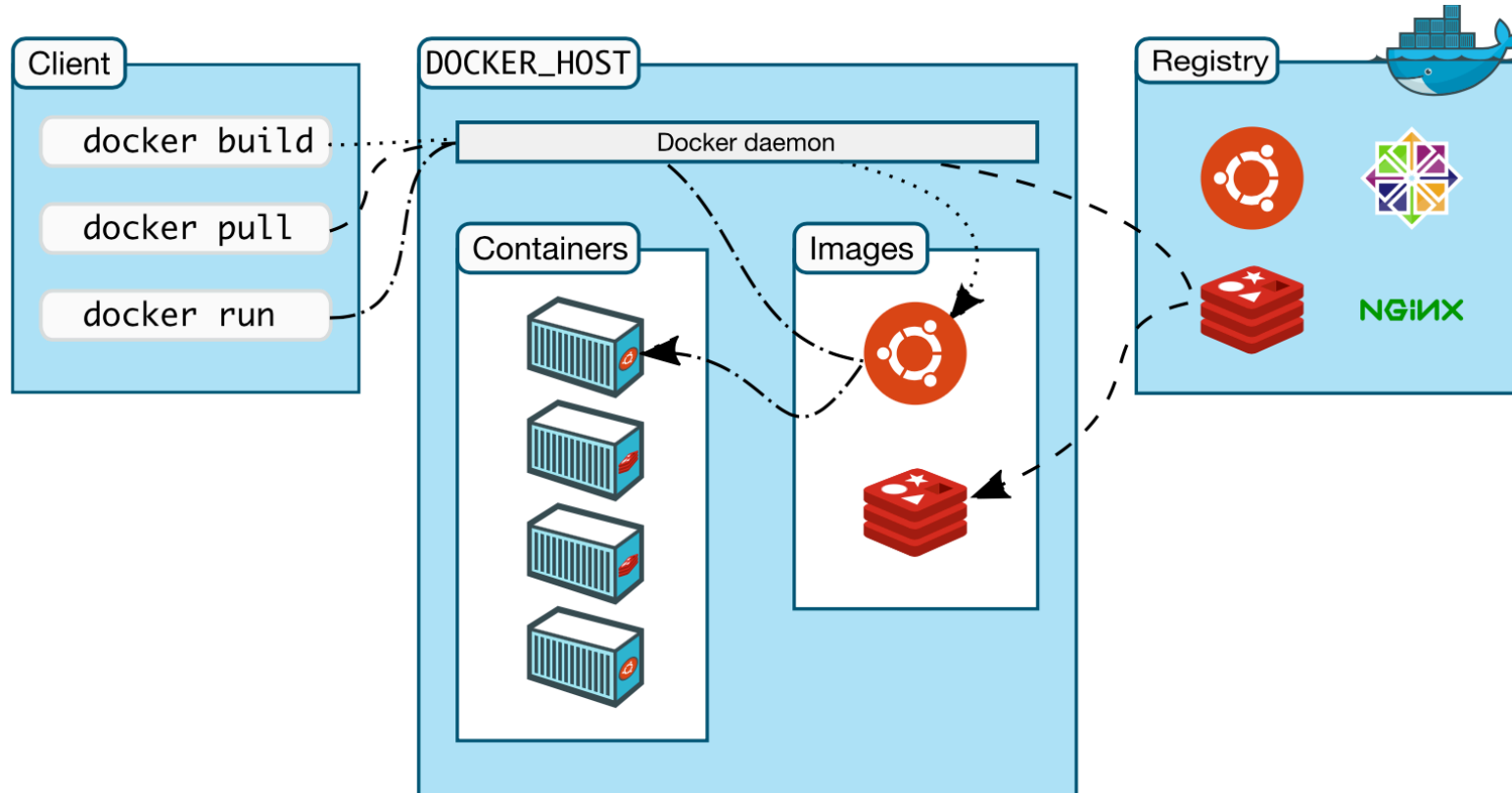
IBM

Who Am I?

- Polyglot & Pragmatic Programmer
- Speaker
- Blogger – <http://VidyasagarMSC.com>
- BlueCoder – <https://www.meetup.com/BlueCoders>

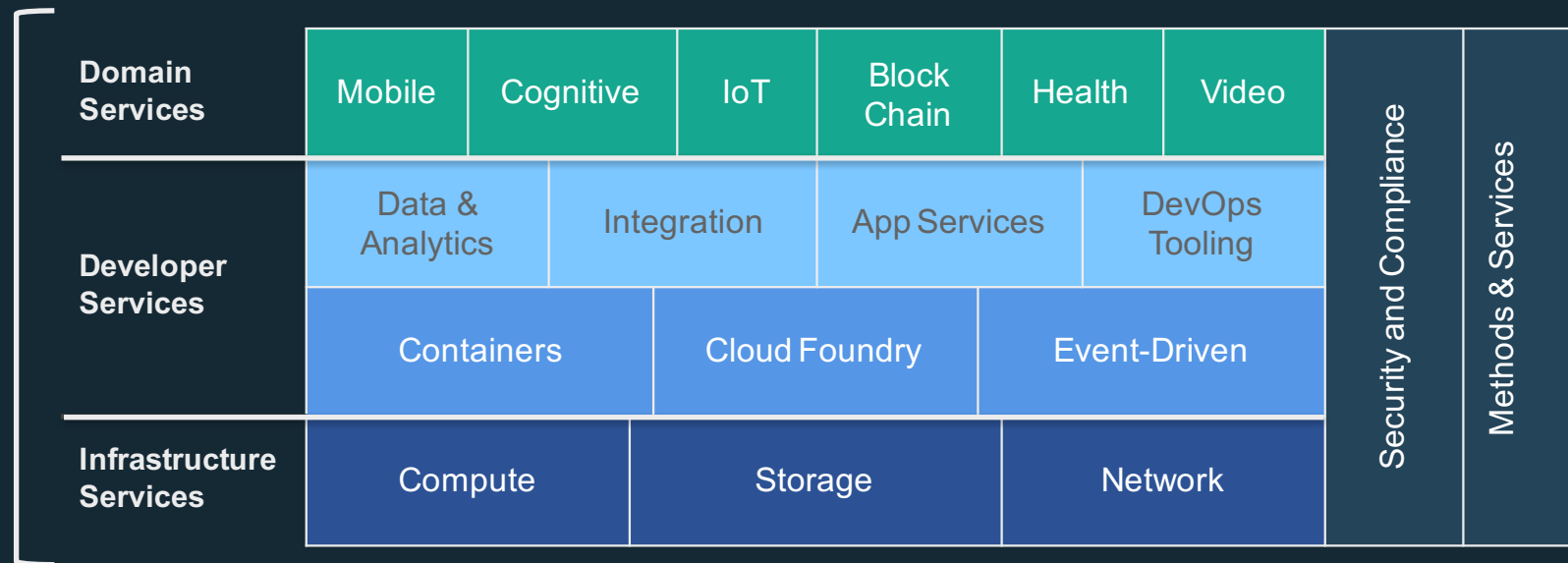


What is a Container?

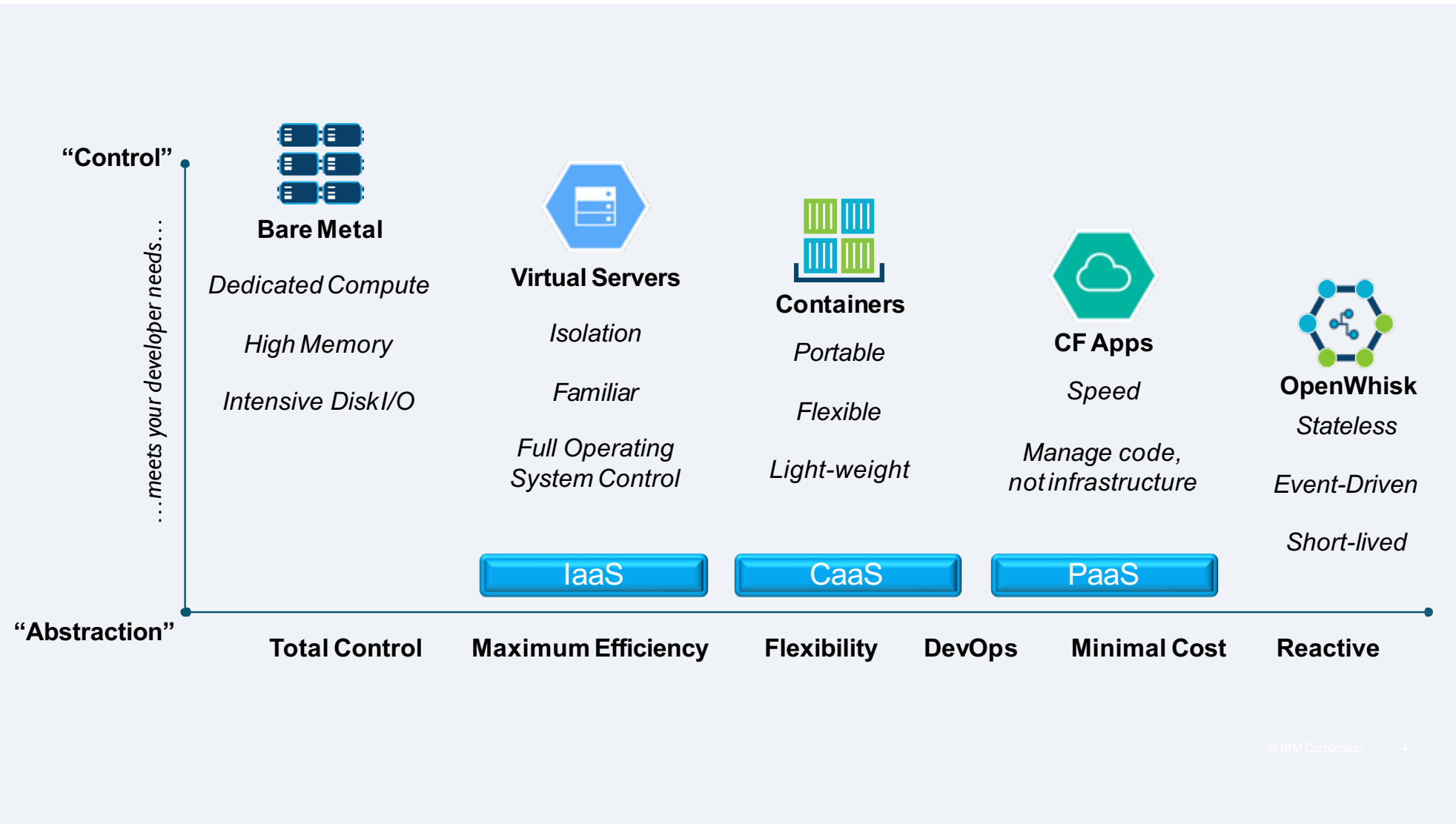


Then What is Docker?

IBM Cloud Platform Portfolio

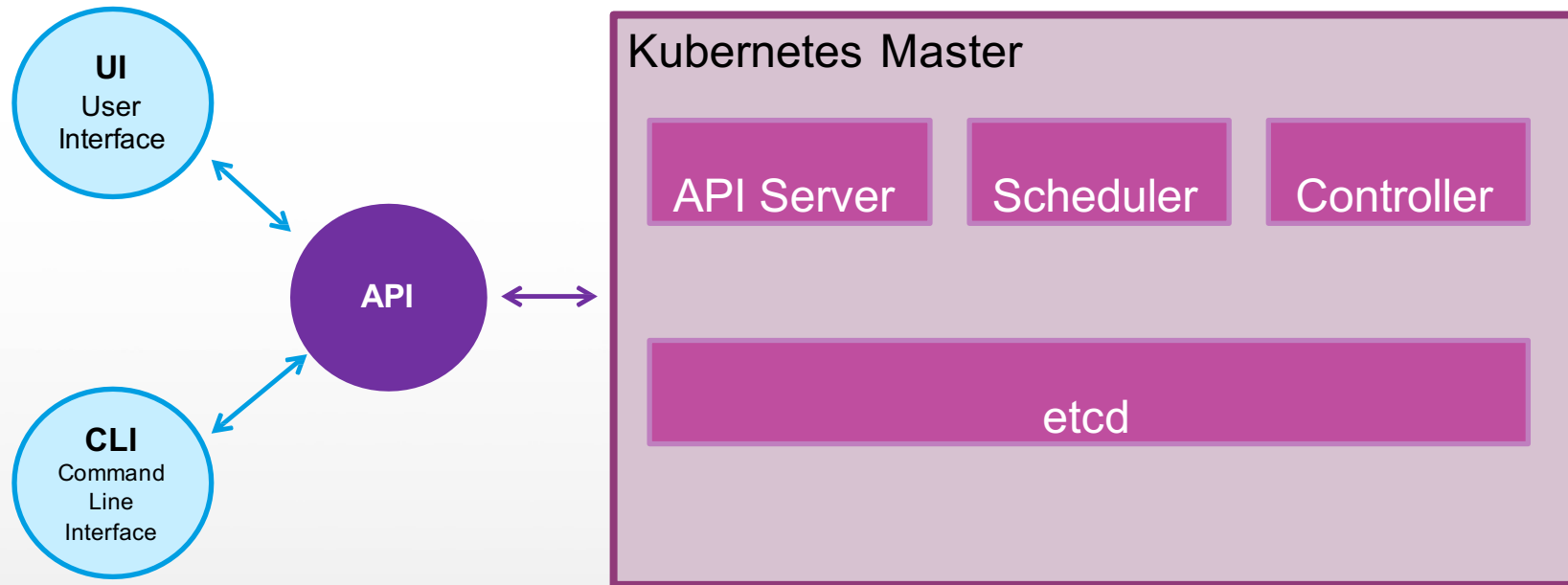


IBM Bluemix Compute Choice & Flexibility



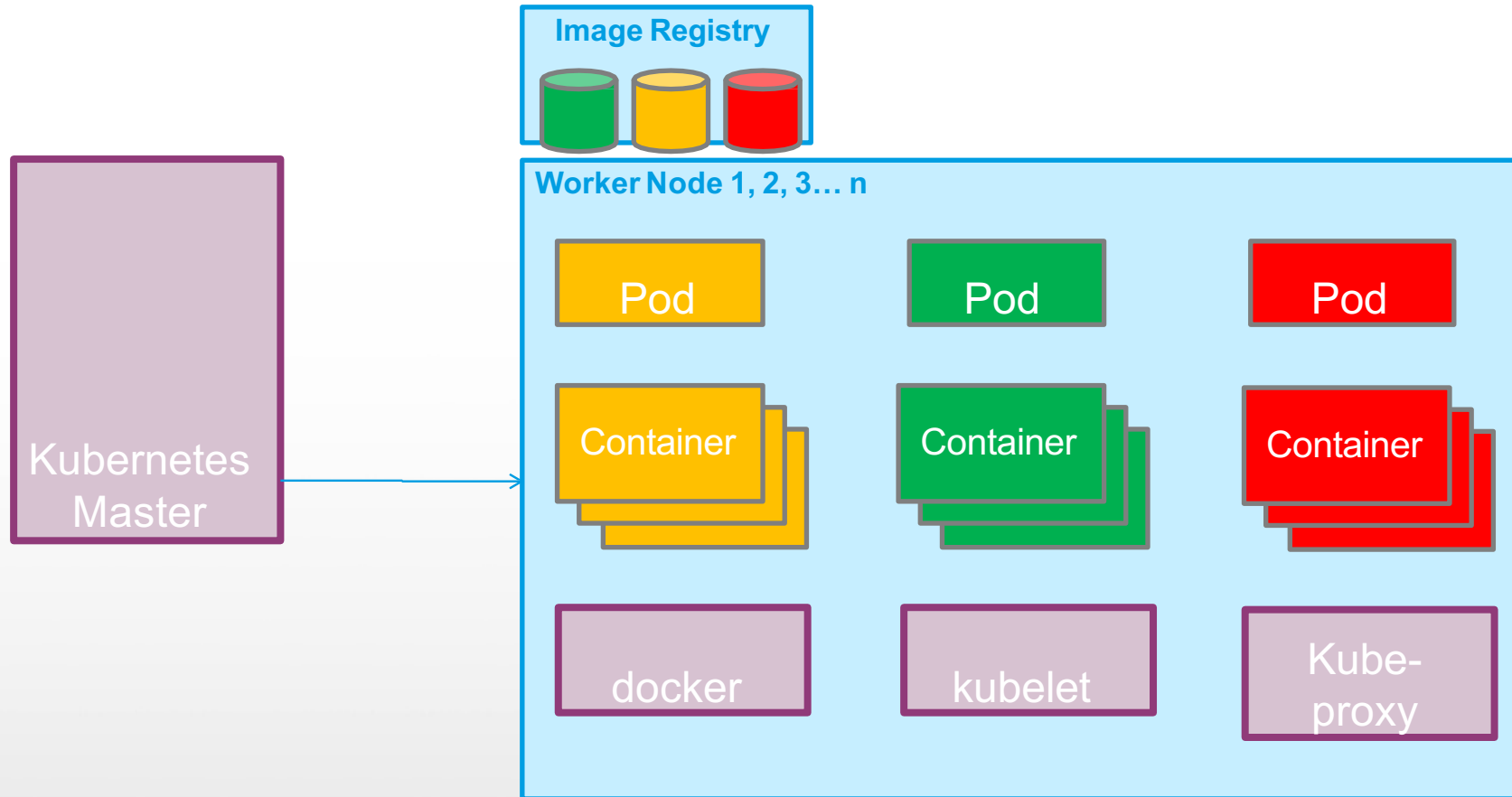


Kubernetes Architecture

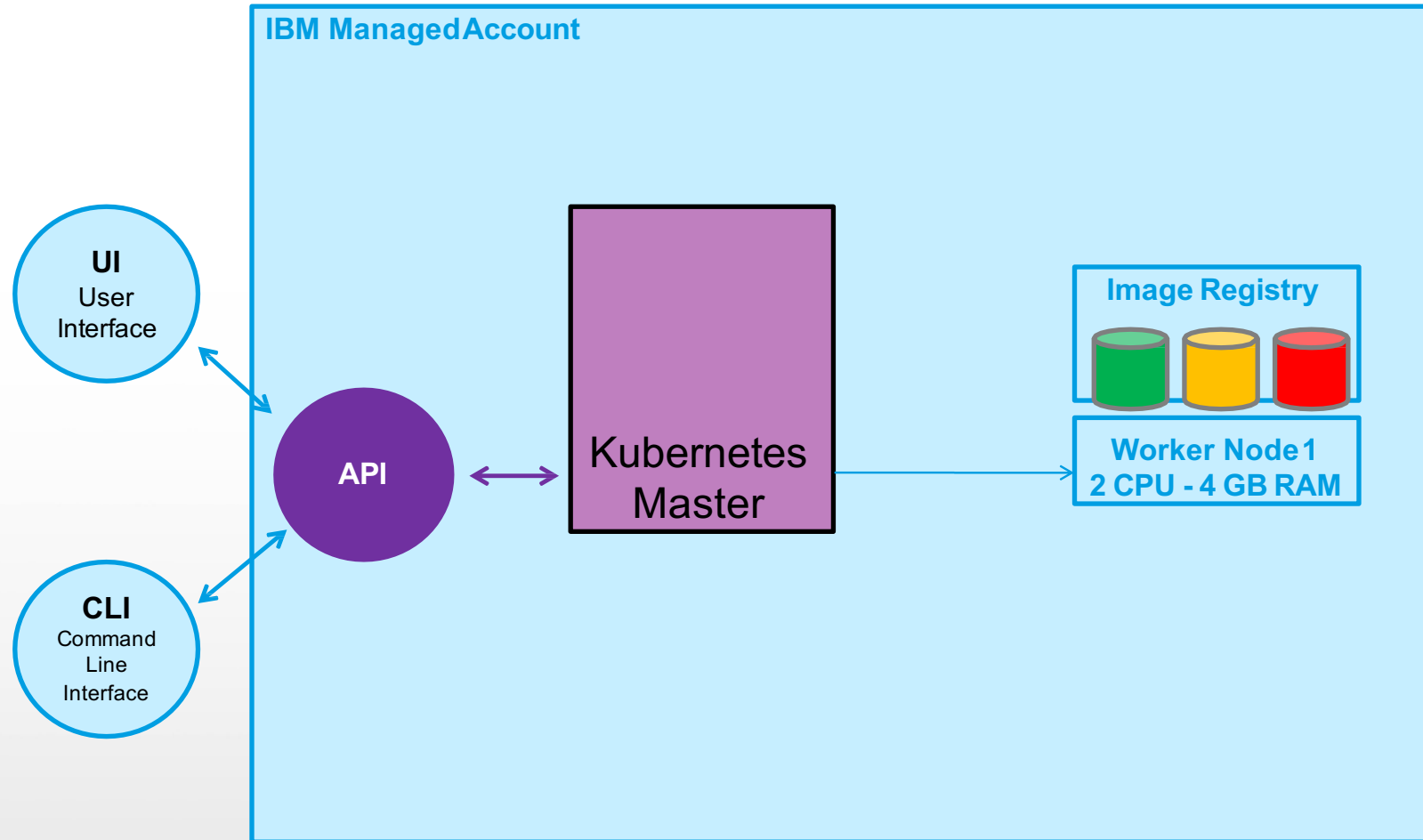




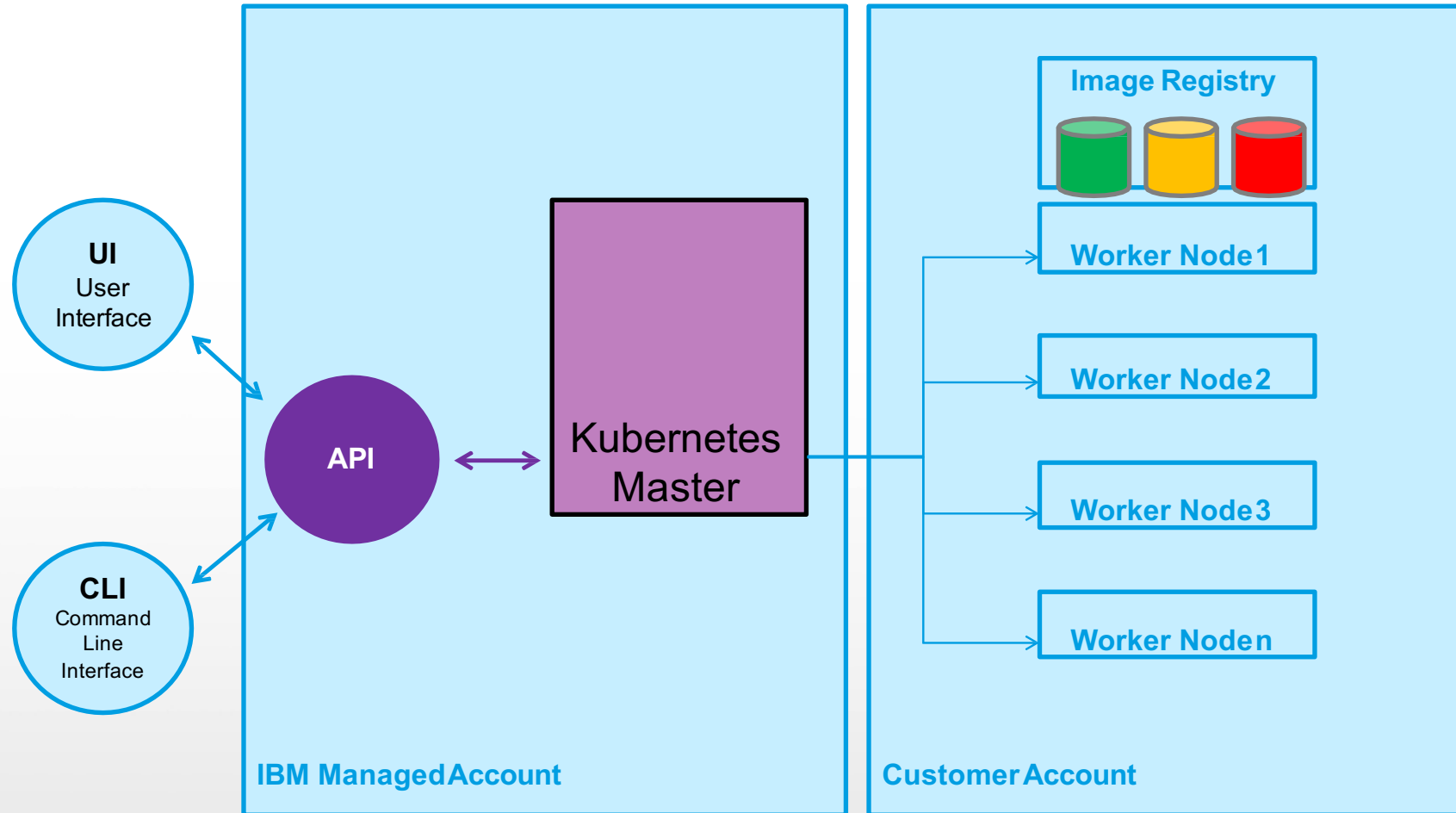
Kubernetes Architecture



Kubernetes **Free** Cluster – Single Worker Node



Kubernetes **Paid** Cluster - fully customizable, production-ready





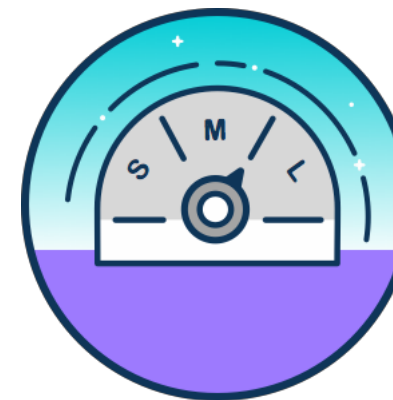
Kubernetes Capabilities



Intelligent Scheduling



Self-healing



Horizontal scaling



Service discovery & load balancing



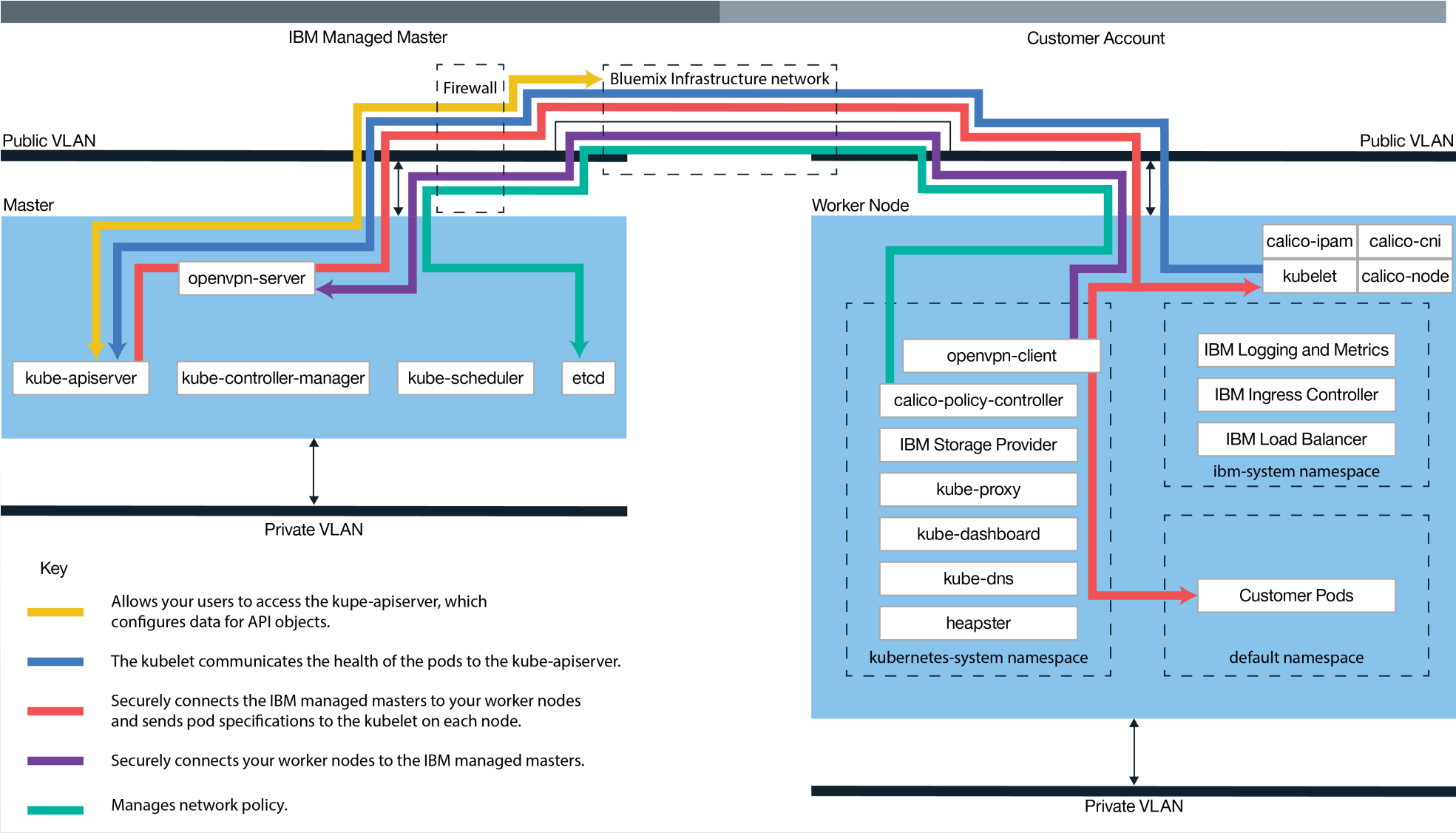
Automated rollouts and rollbacks



Secret and configuration management



IBM **Bluemix**
Container Service

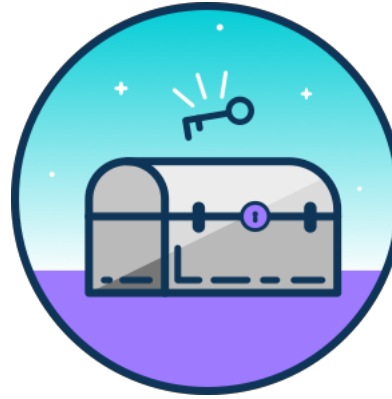




Cluster Management Capabilities



Simplified Cluster Management



Container Security & Isolation



Design Your Own Cluster



Leverages IBM Cloud & Watson

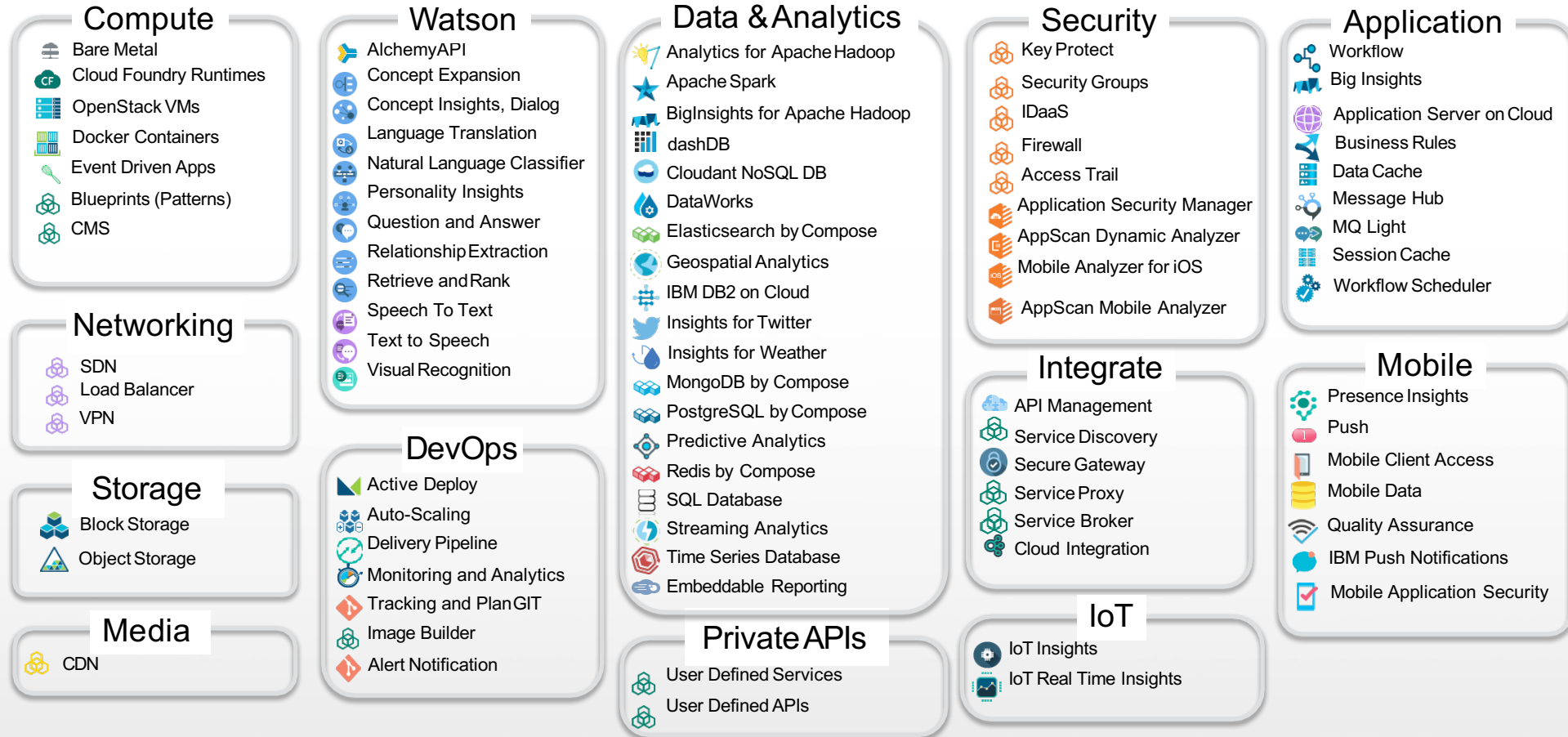


Native Kubernetes Experience



Integrated Operational Tools

Seamless integration of Kube cluster with Bluemix Services



Setting up Bluemix CLI

- Download the CLI package and run the installer from <https://console.bluemix.net/docs/cli/index.html>
- Plugins

```
~ → bx plugin list
Listing installed plug-ins...

Plugin Name      Version
IBM-Containers  1.0.0
container-registry 0.1.136
container-service 0.1.259
dev              0.0.6

~ →
```

bx plugin repo-add bluemix-bx <https://plugins.ng.bluemix.net>

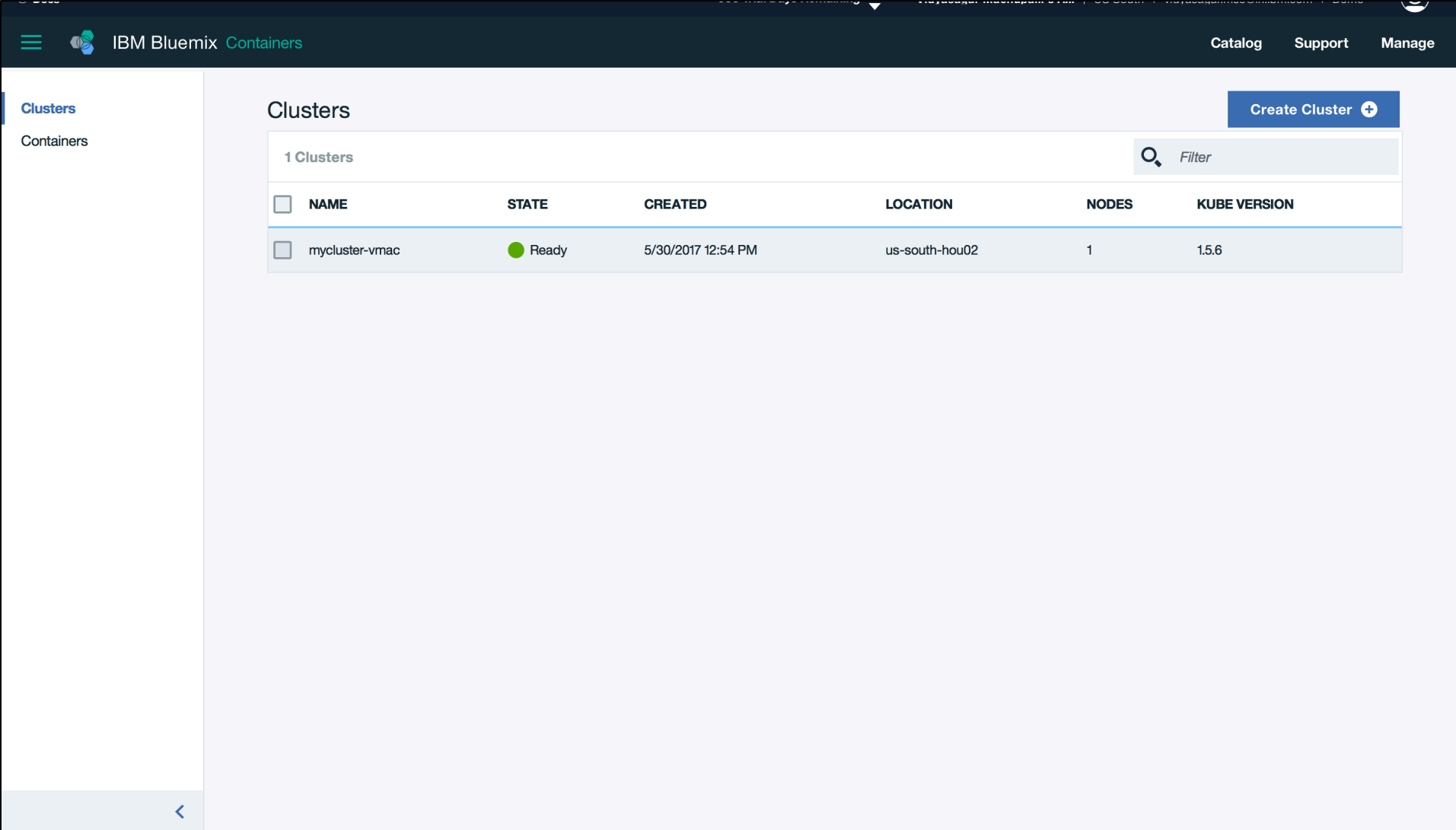
bx plugin install IBM-Containers -r Bluemix-bx

Login and Cluster init

```
bx login
```

```
bx cs init
```

```
bx cs cluster-create --name <cluster_name>
```

<https://Bluemix.net>

IBM Bluemix Containers

Catalog Support Manage

Clusters

Containers

Create Cluster +

1 Clusters

Filter

<input type="checkbox"/>	NAME	STATE	CREATED	LOCATION	NODES	KUBE VERSION
<input type="checkbox"/>	mycluster-vmac	Ready	5/30/2017 12:54 PM	us-south-hou02	1	1.5.6



Let's see it...