



Spring, .NET, IBM Watson

PCF = PKS + PAS

August 2018



Agenda

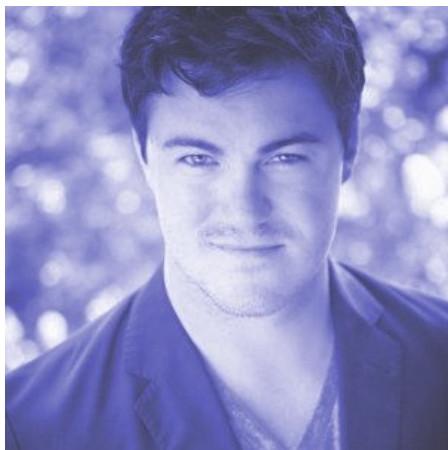
- Introductions
- Application Architecture
- Pivotal Cloud Foundry (PCF) Overview
- Pivotal Container Service (PKS) Overview
- PKS Deployment of Watson
- PAS Overview
- PAS Deployment of Spring/.NET

Platform Architecture

Vince Russo III

Atlanta, GA

Spring & Surfing



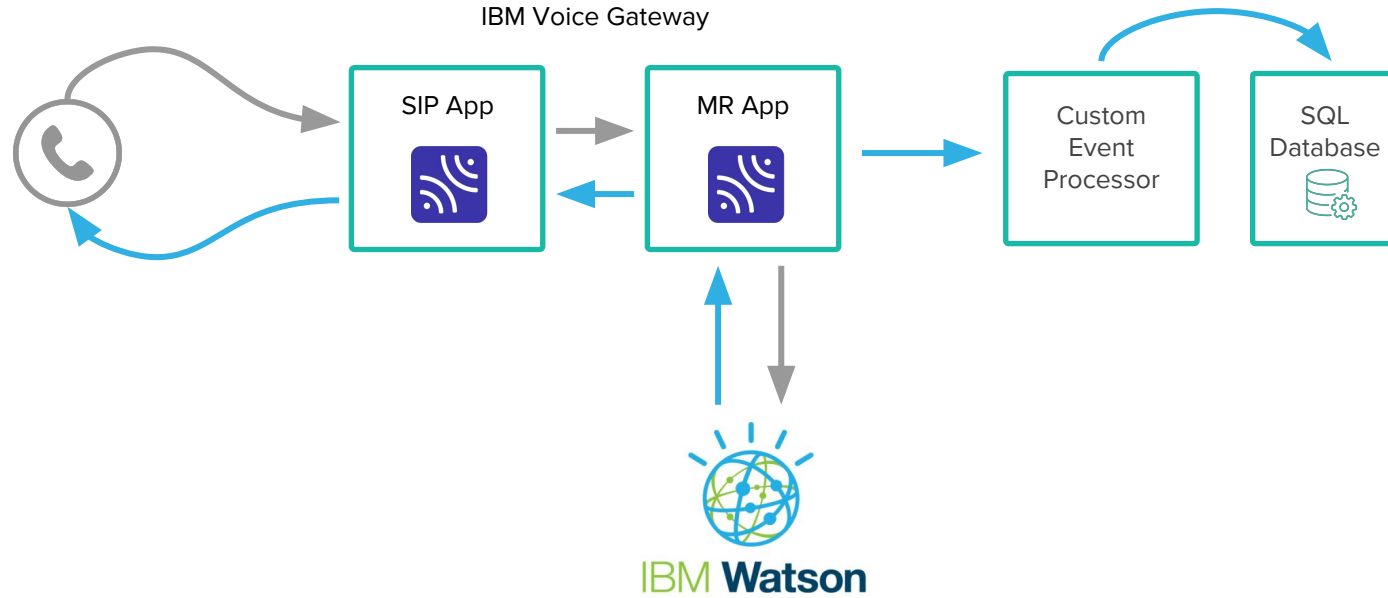
Peter Blum

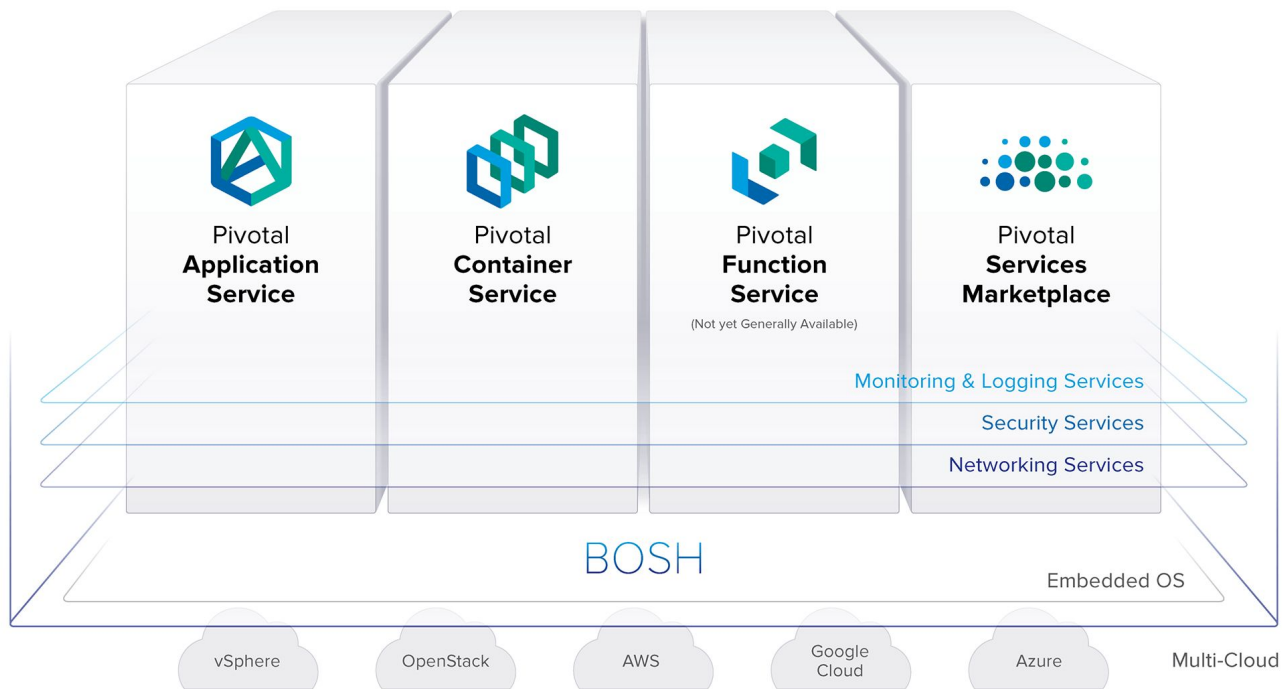
Austin, TX

BOSH & Dragon Boating Enthusiast!



Application Architecture

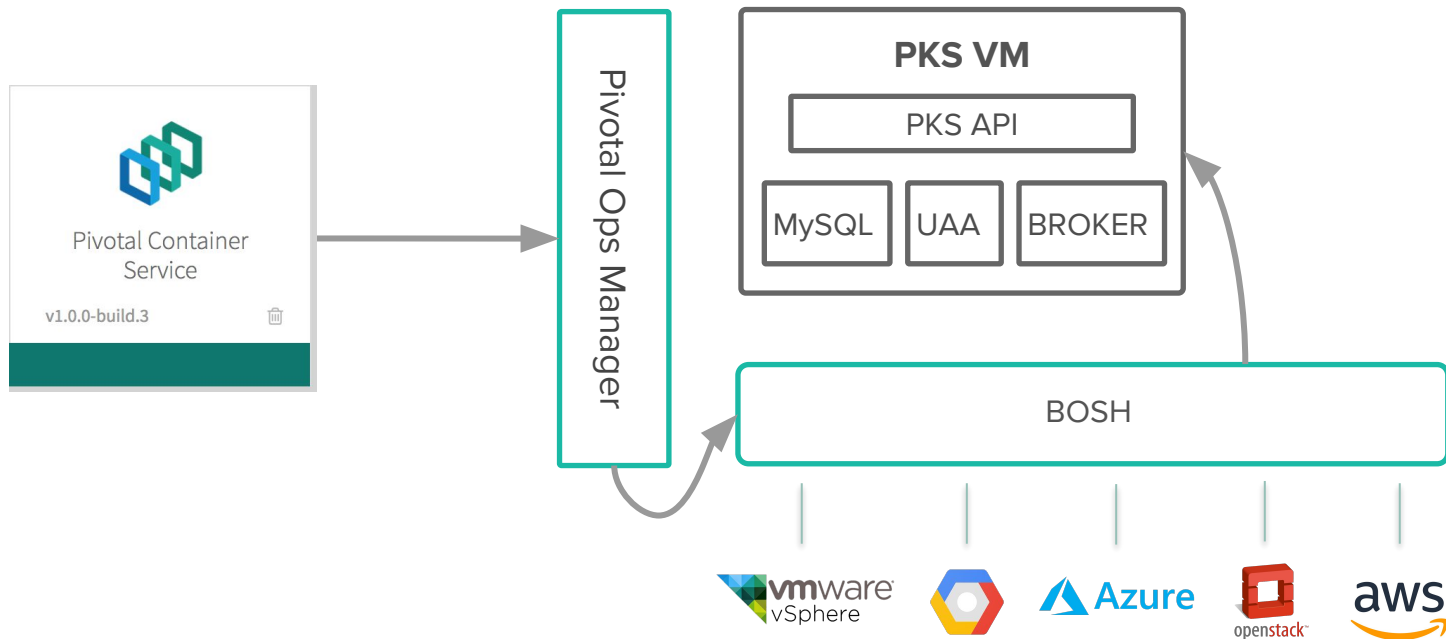




PCF Demo

Pivotal Operations Manager

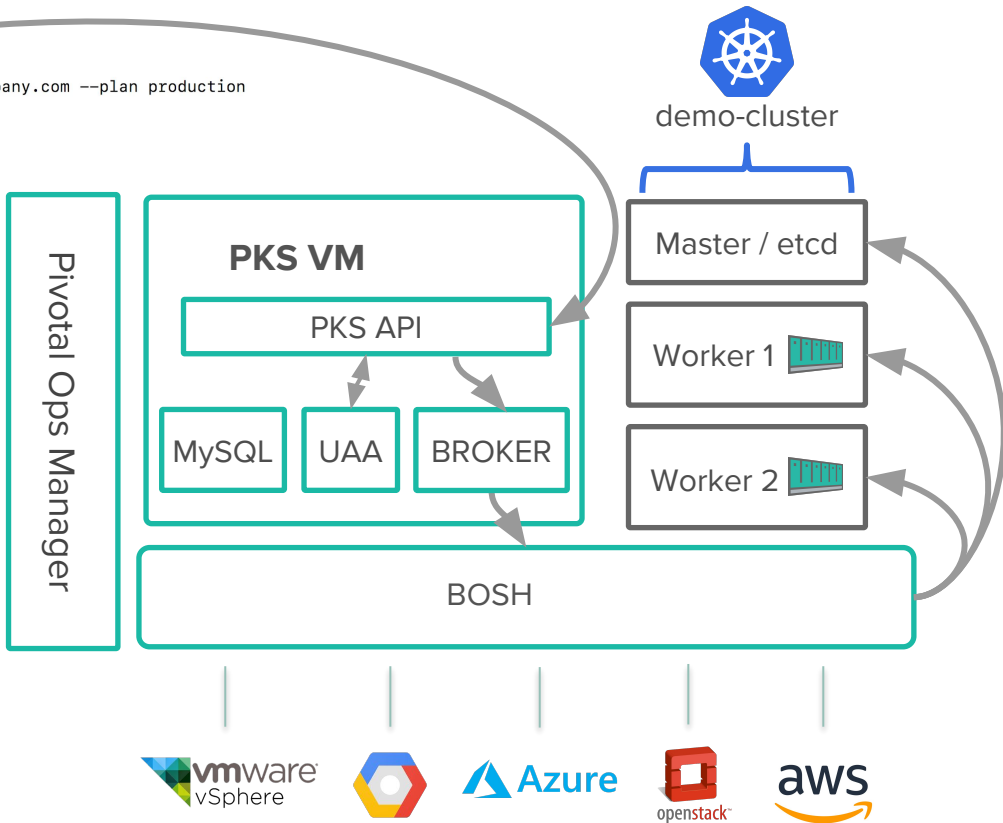
Deploying PKS via Ops Manager



Deploying a Kubernetes Cluster via PKS

```
➜ pks create-cluster dev-cluster --external-hostname dev-cluster.k8s.company.com --plan production
```

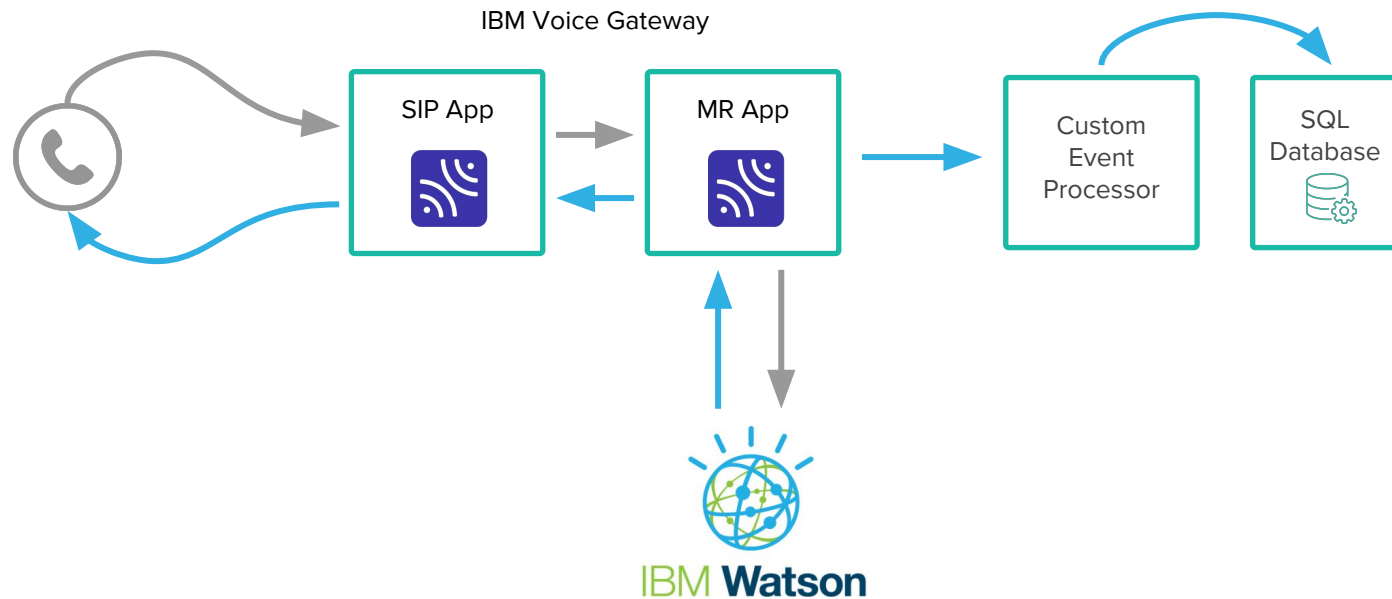
Name: dev-cluster
Plan Name:
UUID: e28d1e85-d136-46f6-b0d6-ec8a2f79b8f6
Last Action: CREATE
Last Action State: in progress
Last Action Description: Creating cluster
Kubernetes Master Host: dev-cluster.k8s.company.com
Kubernetes Master Port: 8443
Worker Instances: set via plan default



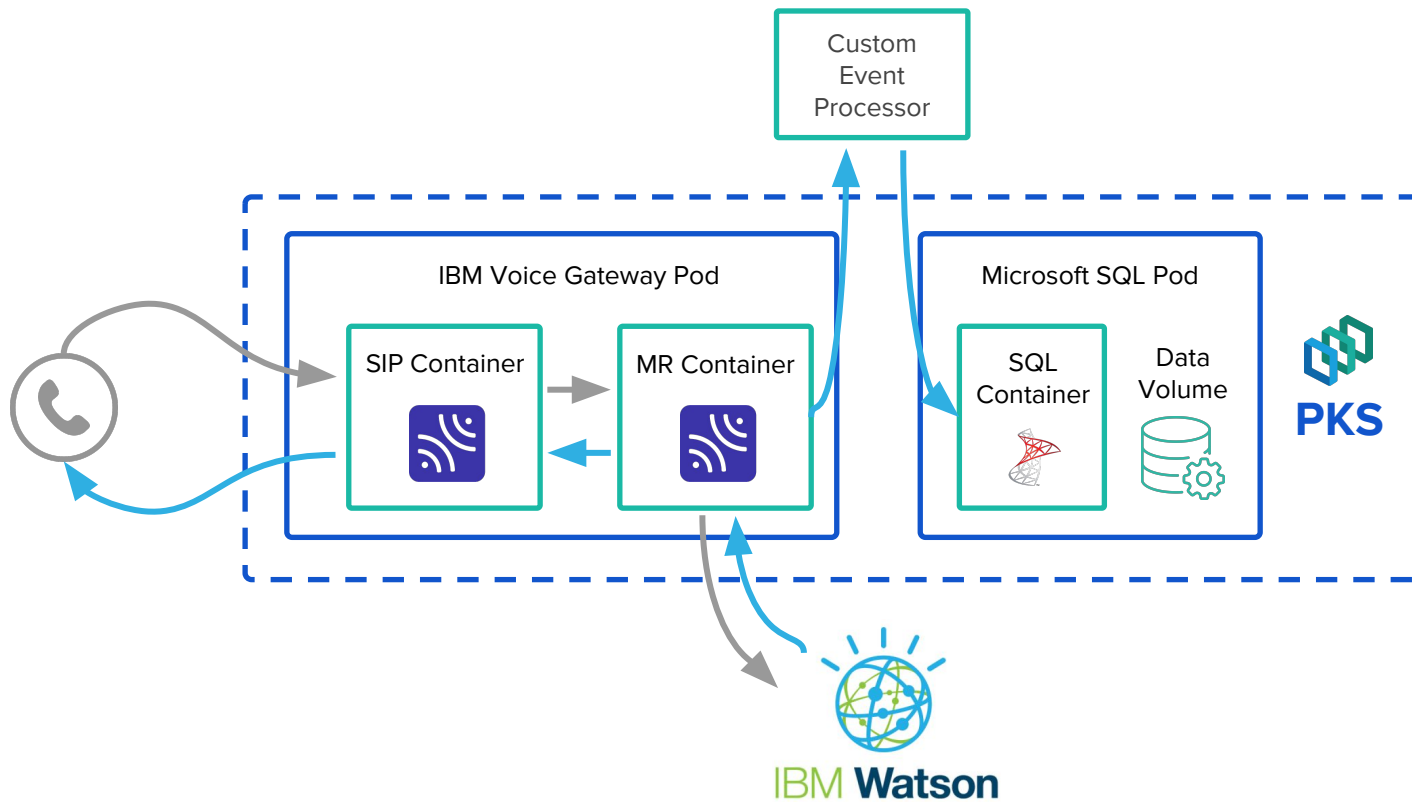
PCF Demo

Create K8s Cluster

Application Architecture



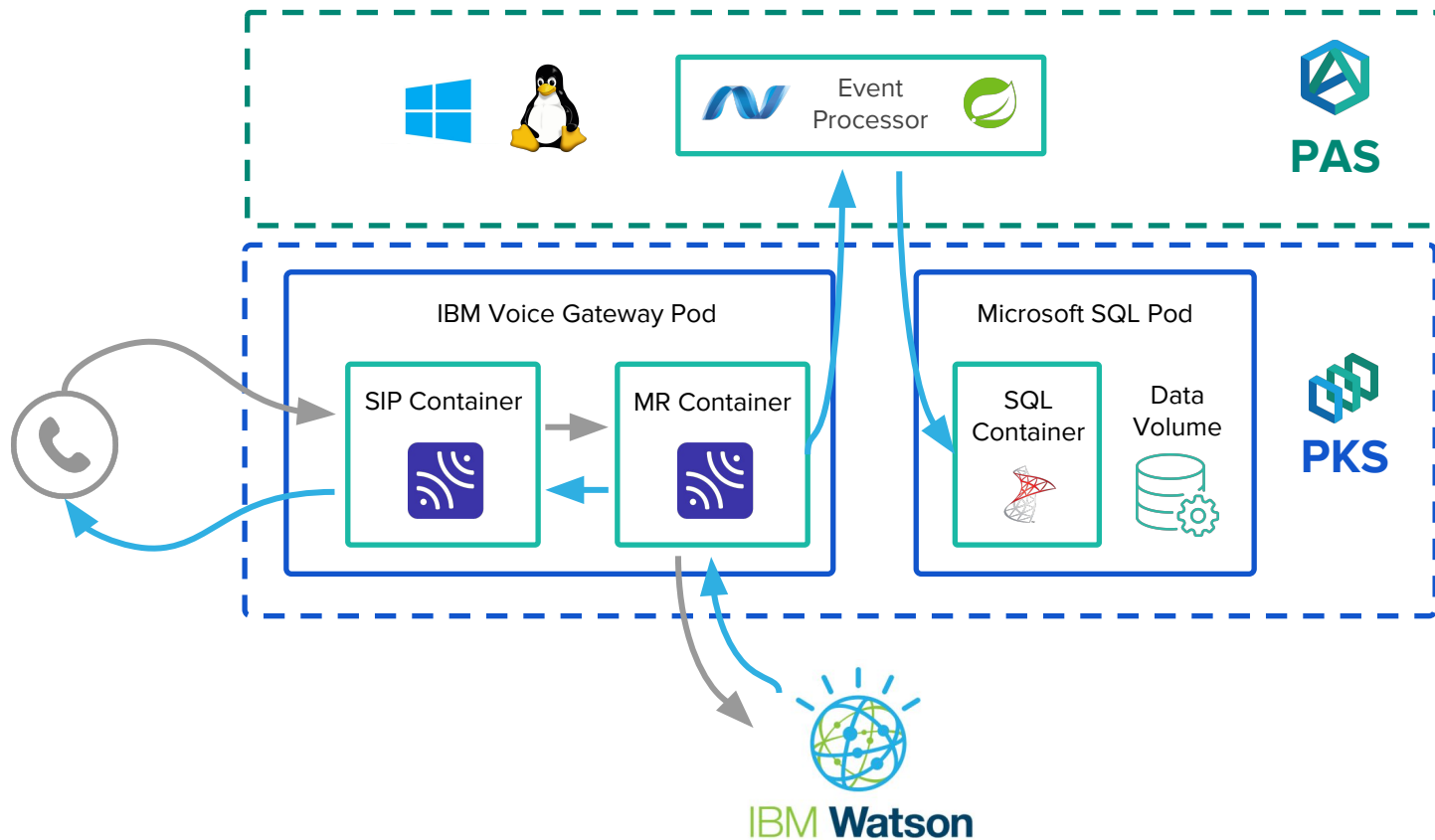
Components On PKS



PCF Demo

Deploy Components to PKS

Applications On PAS



PCF Demo

Deploy Spring to PAS

PCF Demo

Deploy .NET to PAS

The background of the slide is a teal-colored image of the Golden Gate Bridge, viewed from a low angle looking up at one of the towers. The bridge's cables and structure are visible, extending into the distance.

Pivotal®



Transforming How The World Builds Software



SpringOne Platform

by Pivotal

September 24–27, 2018

Washington DC

Gaylord, National Harbor

Pivotal

Register Today & Save!



Discount Code

S1P200_VRussolli

Speaker Agenda

- **INTRO**
- Who we are / what's platform architecture
- PCF 2.0 = PKS + PAS ? Why PCF 2.0 (15 minutes)
- PAS Discussion Around Custom Software PKS + PAS
- **OPERATING PCF 2.0**
- Show Ops manager (5min)
- Explain PKS via slides then do PKS create cluster (5 minutes)
- Show IaaS deploying K8s cluster (5 minutes)
- **SWITCH TO APPLICATION DEPLOYMENT SECTION**
- **PKS**
- Review Deployment Architecture
- What is Watson/How do we use it
- Show each K8s JSON For each Part
- Showcase Kube Dashboard
- **PAS**
- Review PAS Software Architecture
- Start with how simple it is to use Spring
- Now let's show how we can do the same thing with .NET framework!