### Azure Service Broker and Helm 让应用部署变得更简单

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### Hi, I'm an Open Source Engineer

- 我在美国三藩市工作
- 与开源社区一共工作,解决我们客户的问题
- 我参与贡献的项目: Kubernetes, Cloud Foundry, Azure container service engine, service broker, Helm charts



### 议题

- Service brokers
- Helm
- Demo



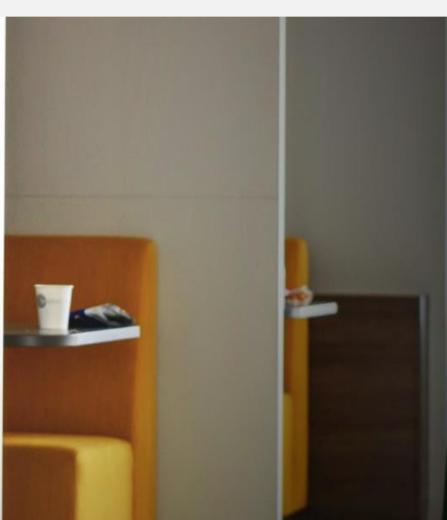
### 让你容器内的应用更容易使用 Azure Service

# 传统企业中,向运维部门申请新的服务还是一件挺痛苦的事情



# 程序员的效率





### 从头搭建一个能经受住生产环境考验的 数据服务并不容易

# 更别提去运营,还有各种认证权限管理



### 为什么要开发 Azure Service Broker (ASB)?

- 基于容器的数据服务
  - 运维太困难和复杂
  - 没有 SLA
- Azure 数据服务
  - Strong operational characteristics
  - 商业 SLA

ASB 在基于容器的应用和Azure数据服务之间建立了一个桥梁 提高开发者的效率,降低运维复杂度



### 开放 Service Broker API



- 最早始于 Cloud Foundry
- · 通用的接口/API,横跨所有的 Cloud Native Platforms

### 支持的平台

- Cloud Foundry
- Service Fabric
- OpenShift
- Kubernetes (AKS)



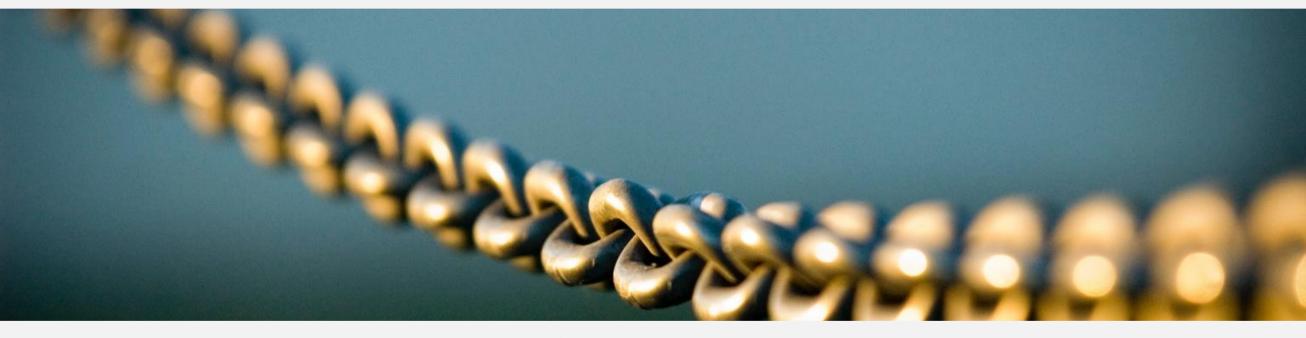
## 服务目录



用户通过服务目录可以注册和配置自己的应用所需要的服务



### Service Broker



- Advertising service offerings and plans to marketplace
- Acting on requests from the marketplace for provisioning, binding, unbinding, and de-provisioning

#### 目前ASB支持的服务

- Azure CosmosDB
- Azure EventHub
- Azure KeyVault
- Azure SQL
- Azure MySQL
- Azure PostgreSQL
- Azure Redis
- Azure Search
- Azure Service Bus
- Azure Blob Storage



## Helm



#### Helm

#### Kubernetes的包管理器

#### 为啥要用 Helm?

- Manage Complexity
- Easy Updates
- Simple Sharing
- Rollbacks



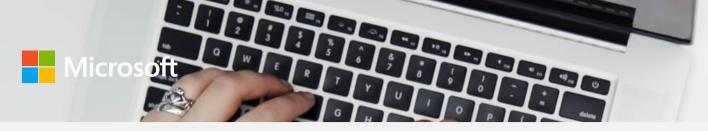
### 目前的进展

Azure Service Broker

· Alpha 阶段,即将发布

Helm

·已正式发布



### WordPress Demo



### 资源

- Azure Service Broker
  - <u>https://github.com/Azure/azure-service-broker</u> (to be released)
     Kubernetes Service Catalog
  - https://github.com/kubernetes-incubator/service-catalog
- · Helm
  - https://helm.sh/

Helm charts

- https://github.com/kubernetes/charts/
- · WordPress chart using Service Broker for to provision Azure Database for MySQL
  - https://github.com/Azure/helm-charts/tree/master/wordpress
- ACS Engine
  - https://github.com/Azure/acs-engine
- Azure Container Service (AKS)
  - https://azure.microsoft.com/en-us/services/container-service/
  - https://docs.microsoft.com/en-us/azure/aks/

