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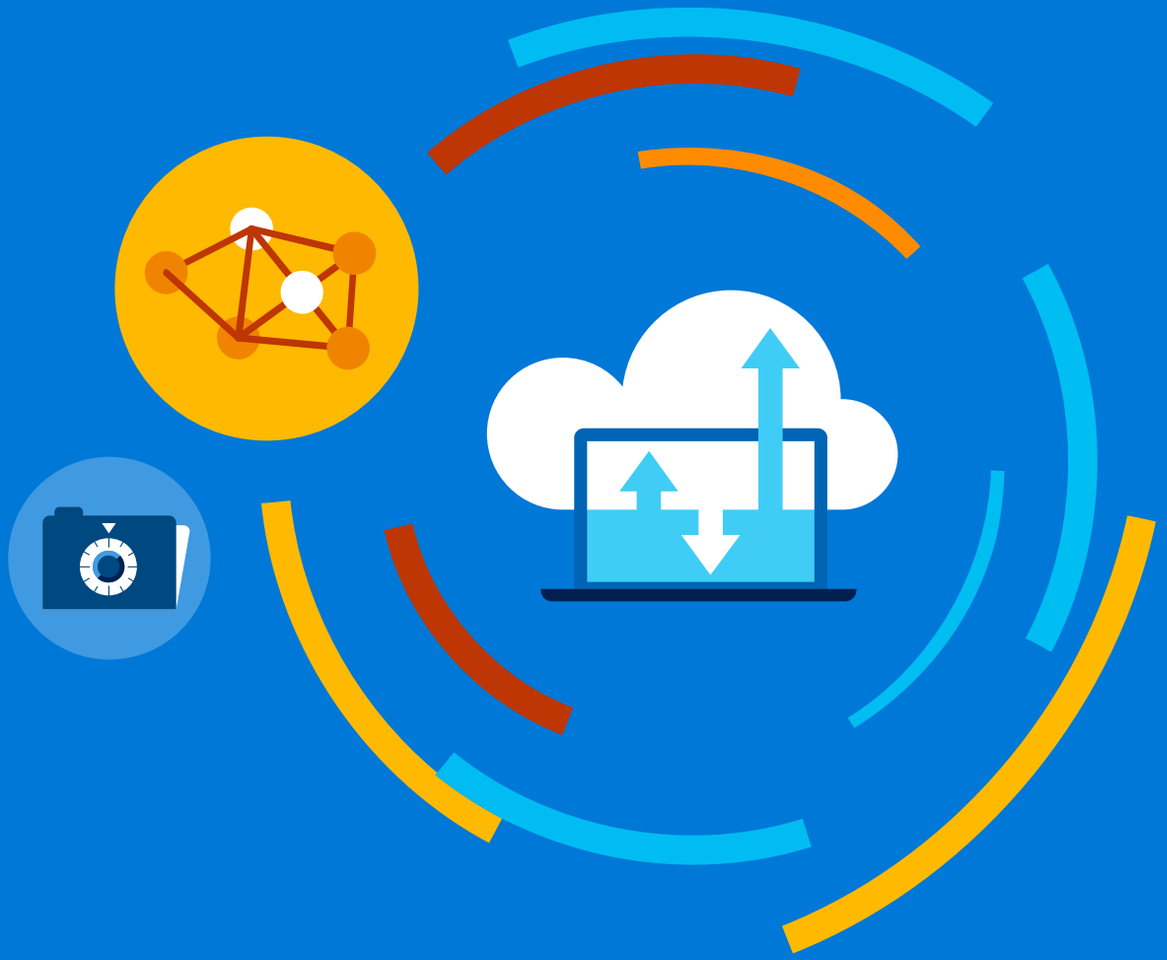
Microsoft Tech Summit

Build your skills with the latest in cloud technologies



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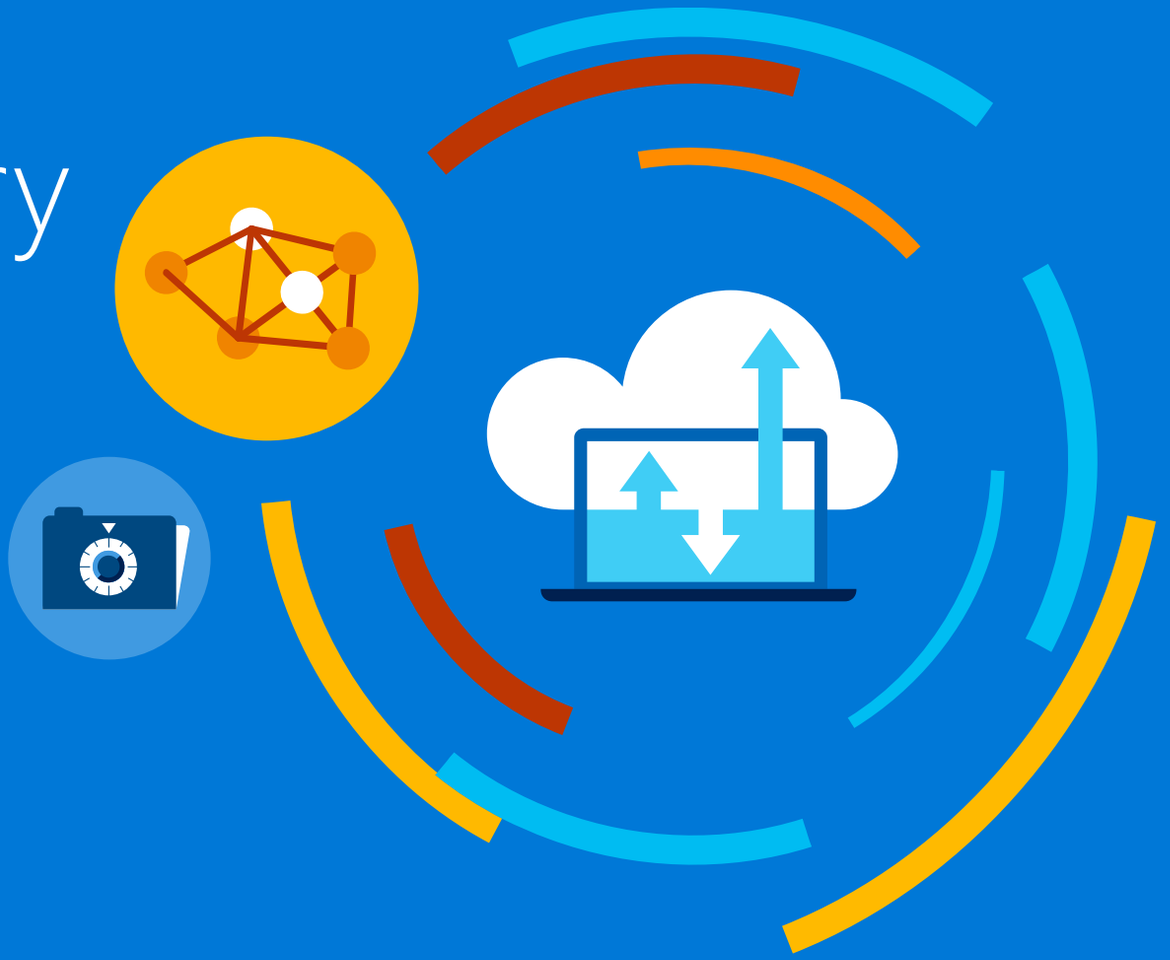
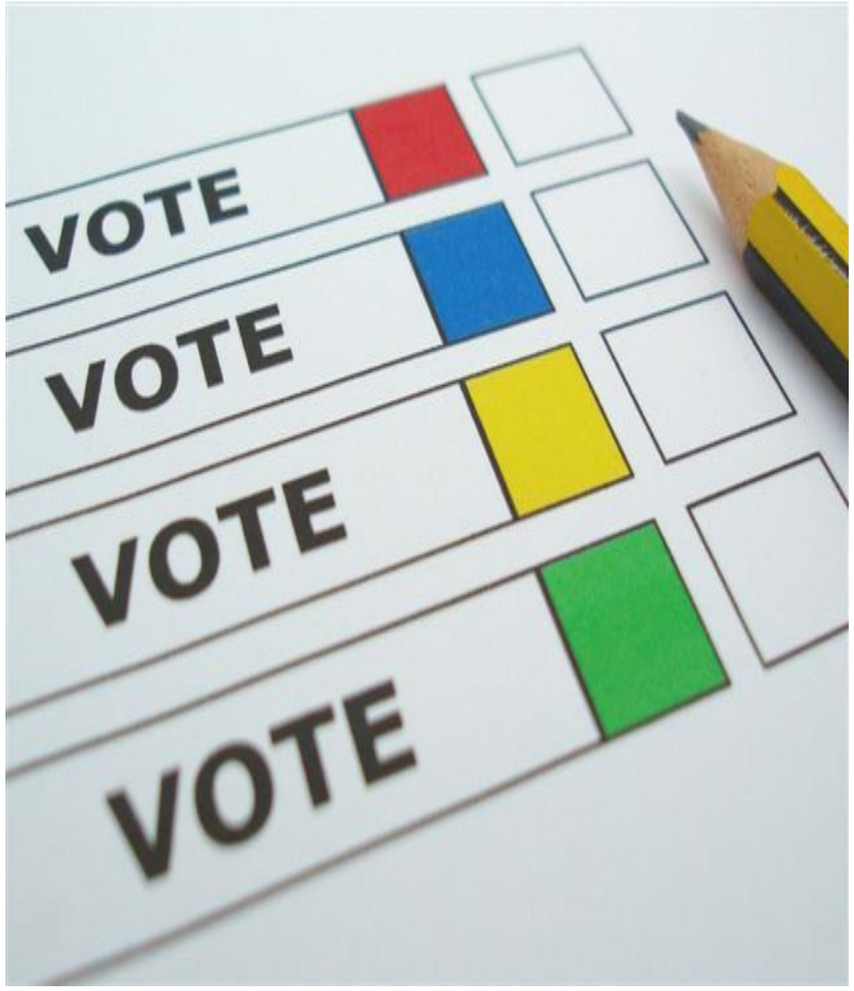
Best Cloud patterns and practices for Cloud Foundry and Spring using Azure



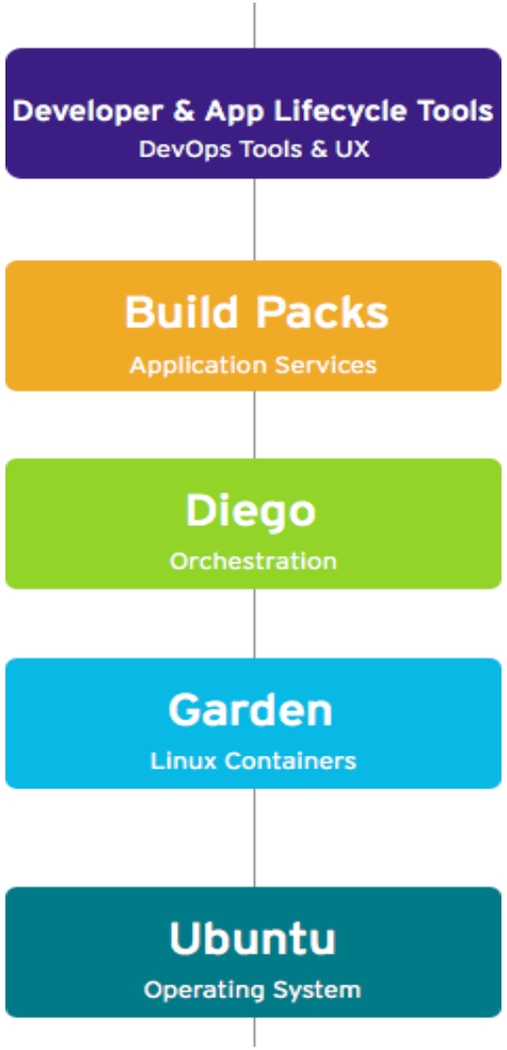
Ruth Yakubu
Sr. Cloud Developer Advocate
@ruthieyakubu

POLL

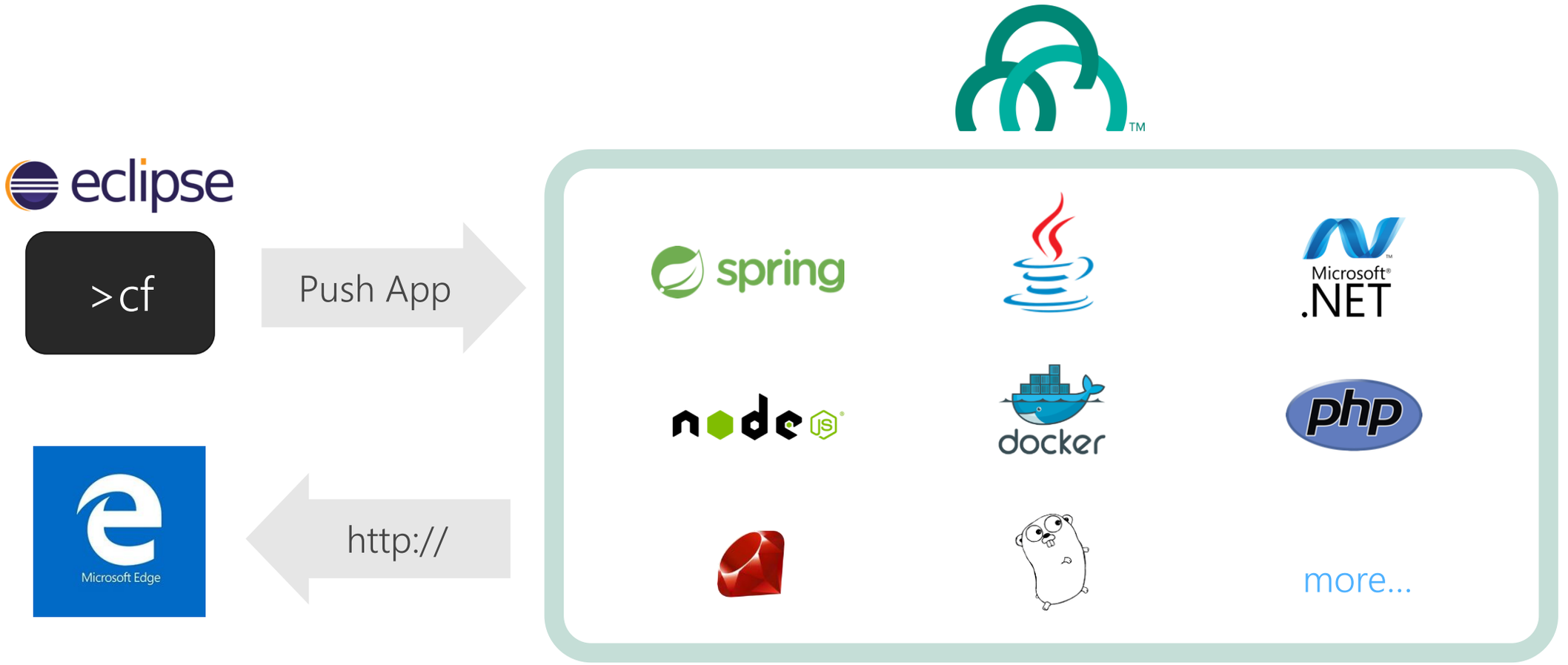
Who's using Azure?
Who's doing microservices?
Who's using PCF?
Who's using PCF on Azure?



Pivotal Cloud Foundry



Developer Self Service Provisioning



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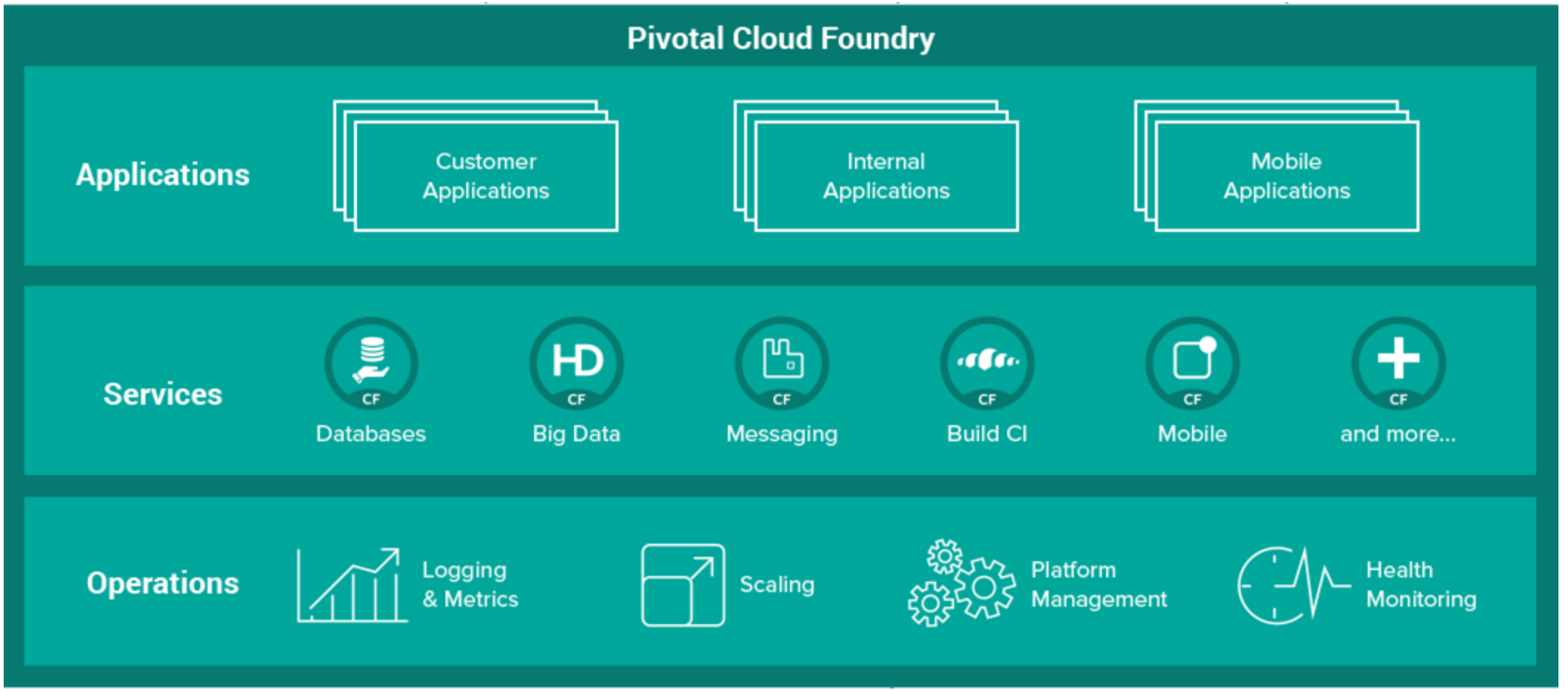
Architecture

Pivotal Cloud Foundry



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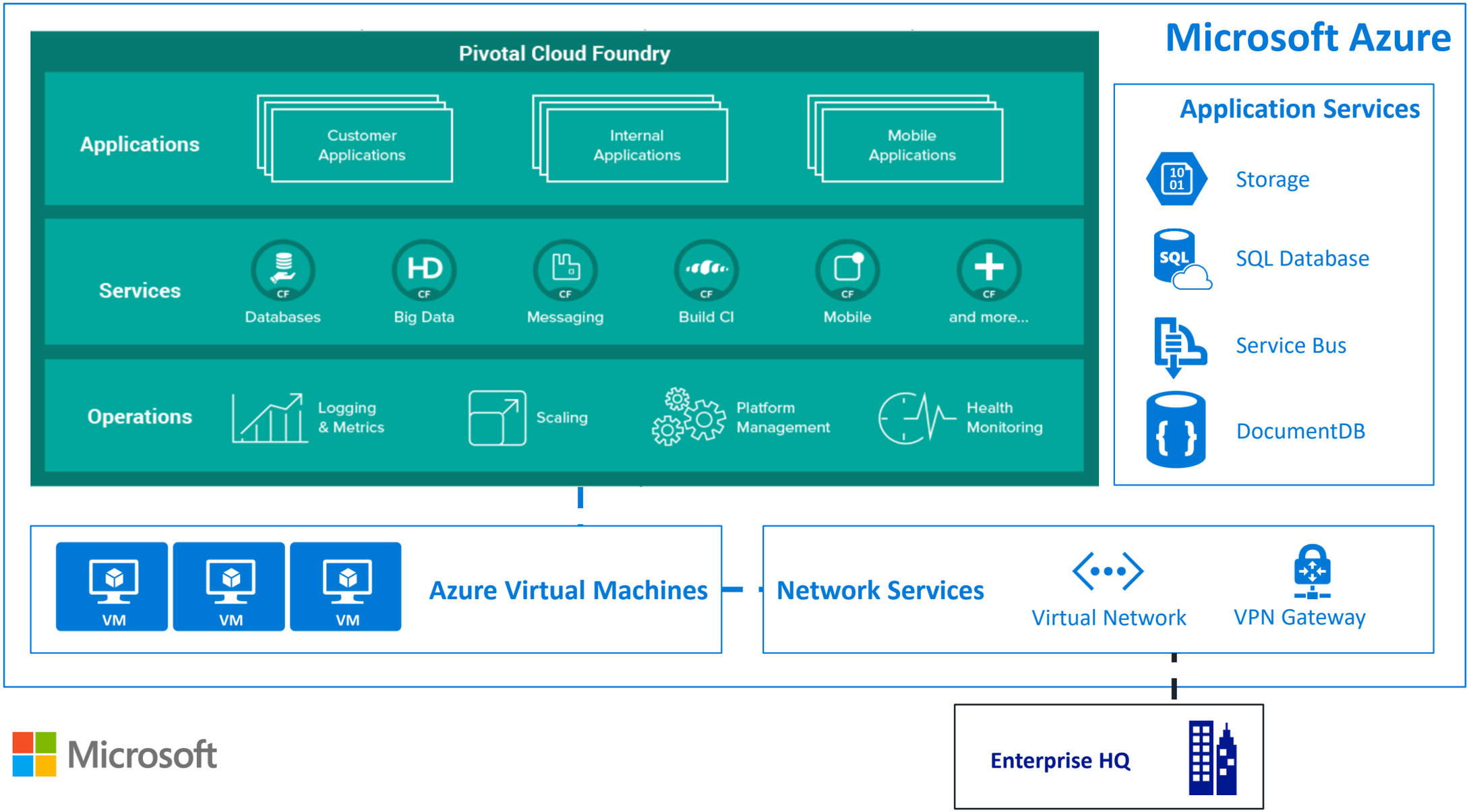
PCF + Azure Logical Architecture



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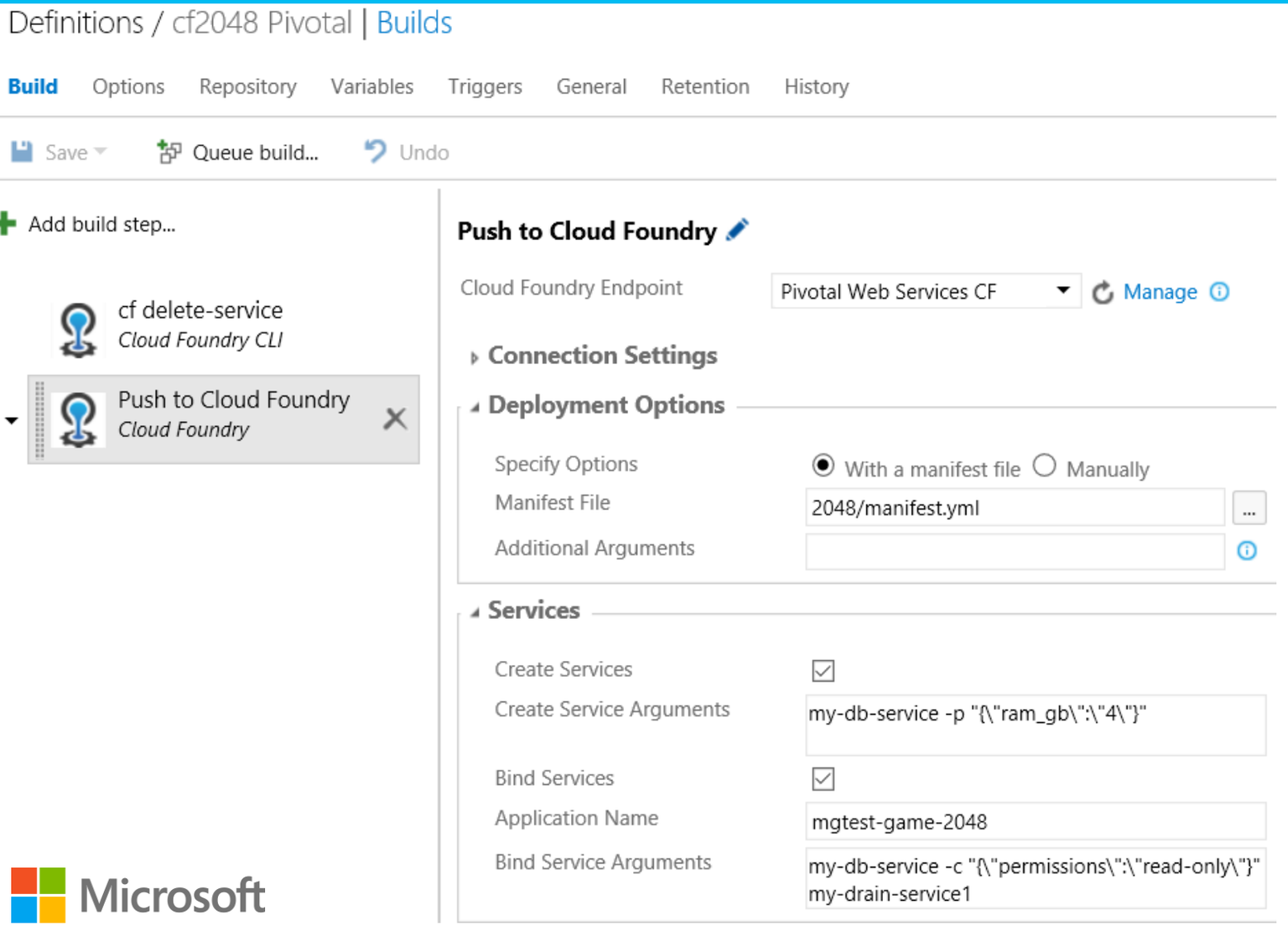
Dev/Prod parity

Visual Studio Team Services CF Integration

Pivotal Cloud Foundry



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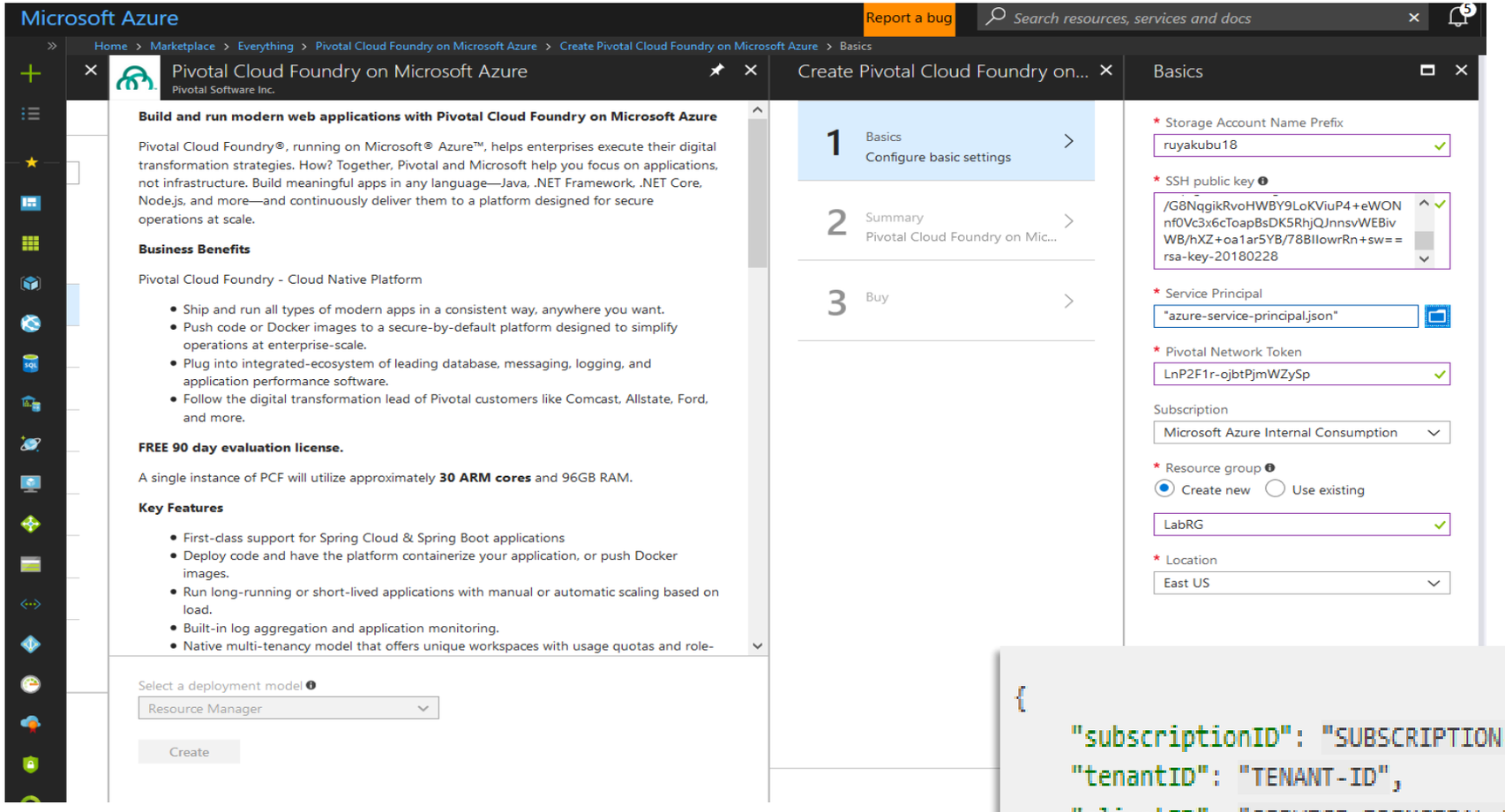
Security

App Registration w/ Azure Active Directory

Pivotal Cloud Foundry®




```
{
    "subscriptionID": "SUBSCRIPTION-ID",
    "tenantID": "TENANT-ID",
    "clientID": "SERVICE-PRINCIPAL-NAME",
    "clientSecret": "SERVICE-PRINCIPAL-PASSWORD"
}
```

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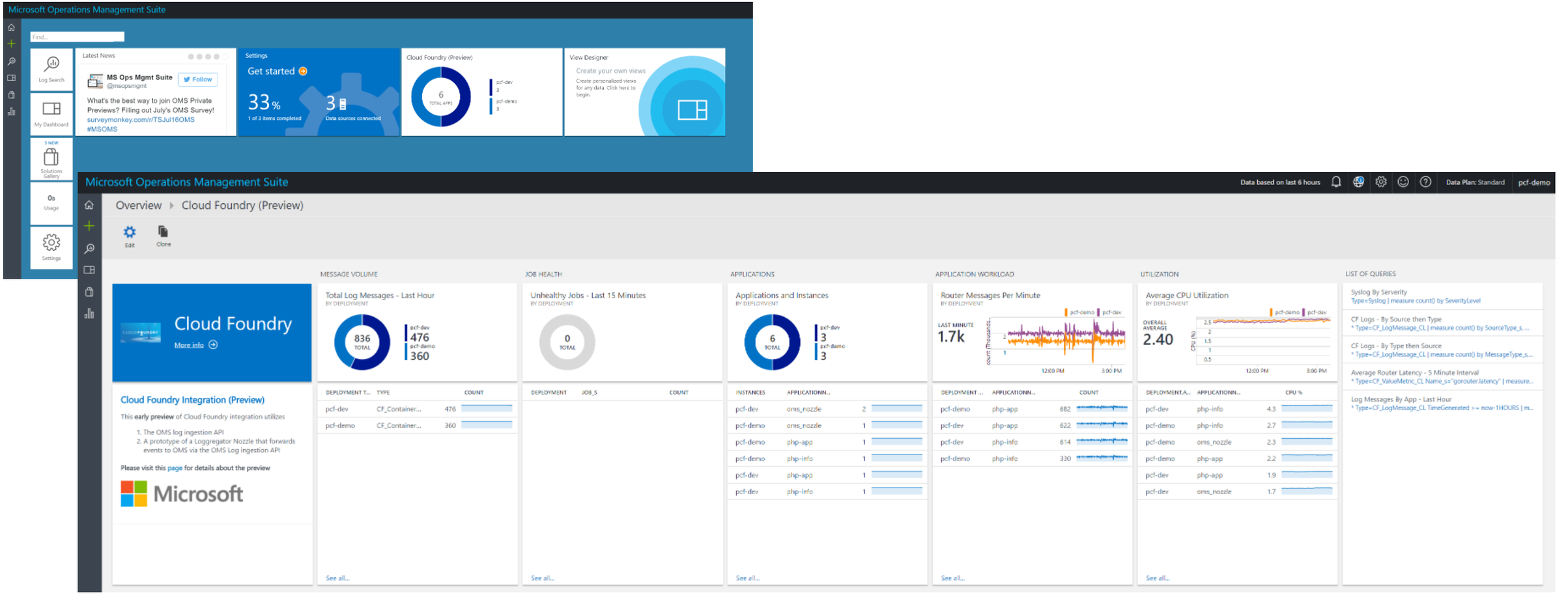
Logs & Monitoring

Microsoft OMS Integration with PCF

Pivotal Cloud Foundry®



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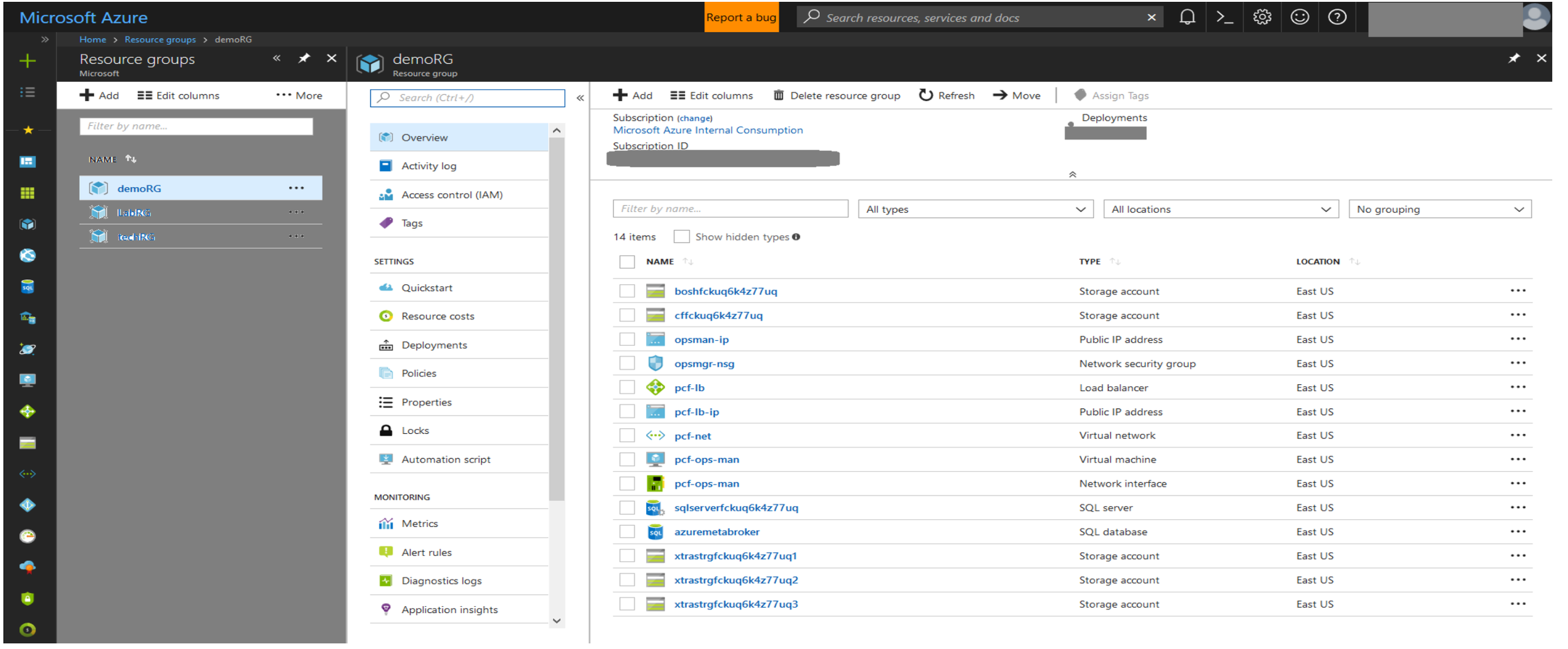
Demo

PCF Deployment in Azure

Pivotal Cloud Foundry®



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cf create-org myorg cf create-space dev -o myorg

App Deploy Code Snippet

1. cf login -a https://api.SYSTEMDOMAINURL --skip-ssl-validation

2. cf create-org myorg
3. cf create-space dev -o myorg

4. cf target -o testorg -s dev

5. cf push

6. Launch your Application

7. cf logs hello-spring-cloud

Concurrency

Code Snippet

```
cf scale -i 2 hello-spring-cloud
```

What Just Happened?

Behind the scenes with

```
$ cf push
```

Upload

cf push uploads your files to a cloud controller API which transforms them a running application.

Stage

Behind the scenes, your files go through staging scripts called buildpacks to create a ready-to-run droplet.

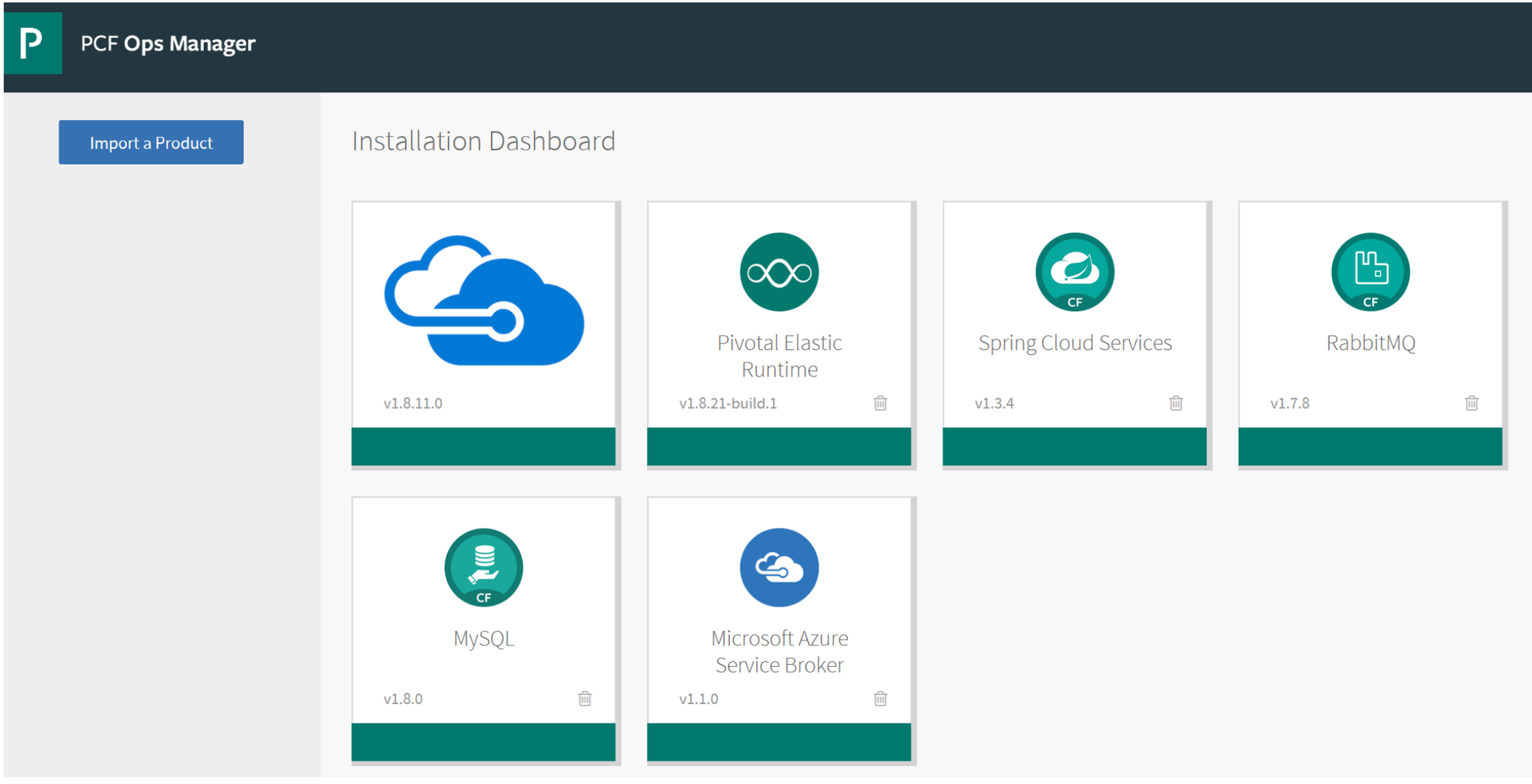
Distribute

A Droplet Execution Agent unpacks the droplets into containers, calls a start command and alerts cloud controller that your app instances are ready to receive traffic.

Run

Your app receives an entry in a dynamic routing tier, which load balances traffic across all your app instances.

Ops Manager



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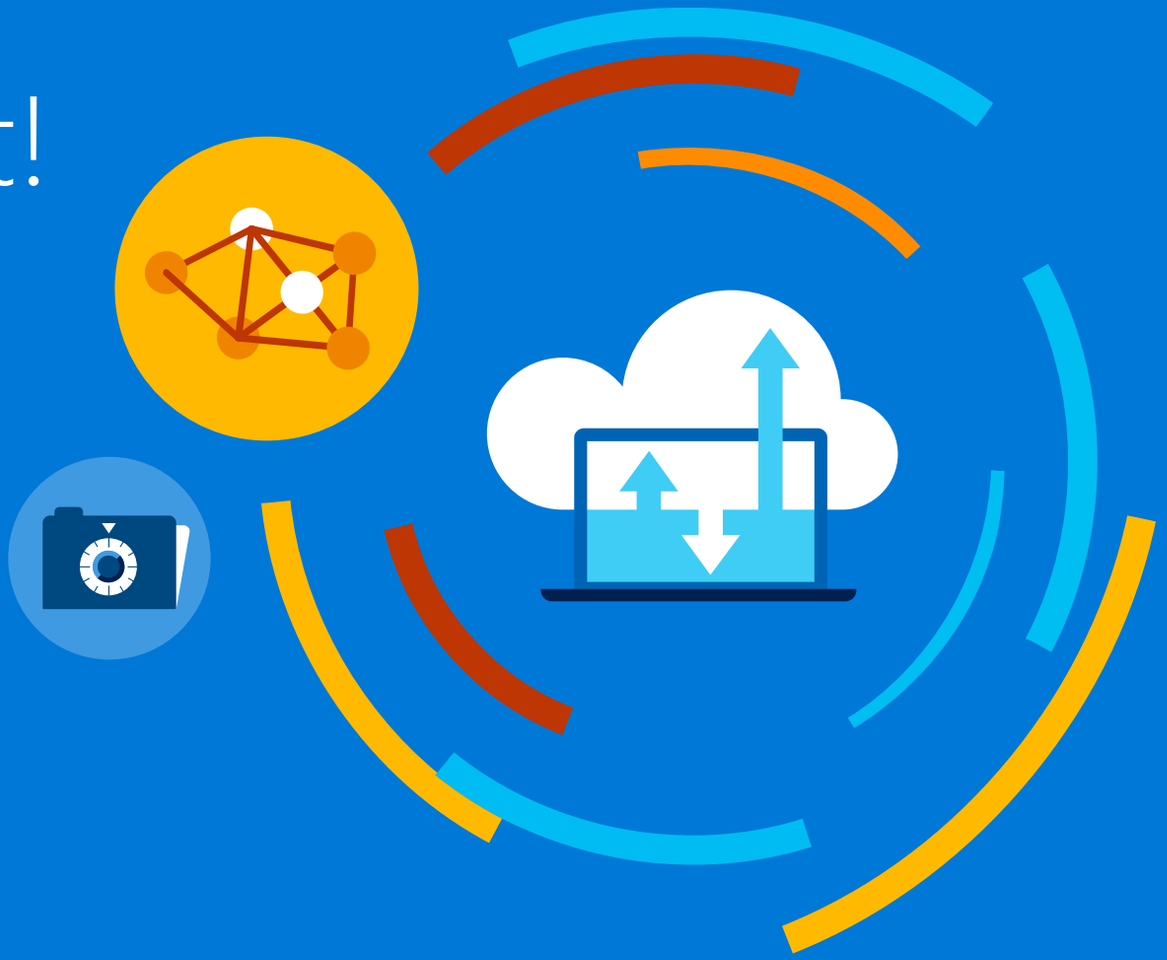

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