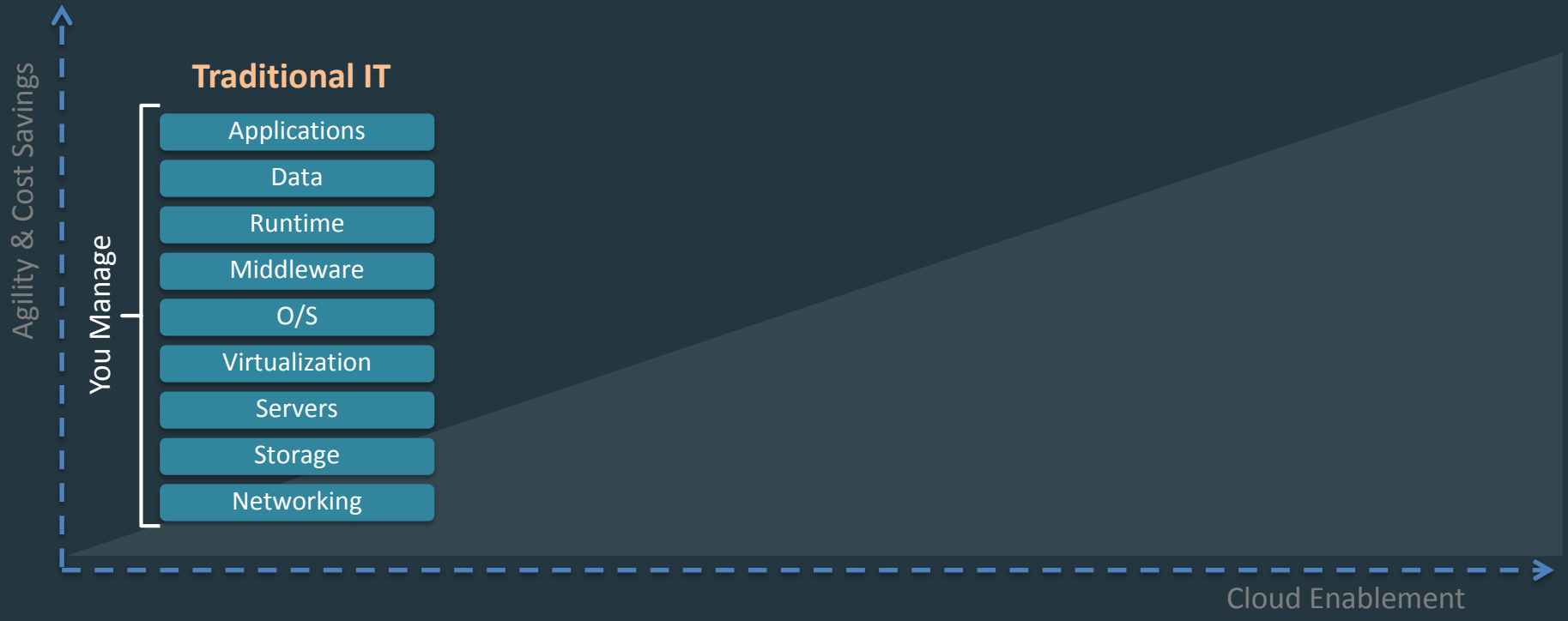
Pivotal Cloud Foundry

An Introduction

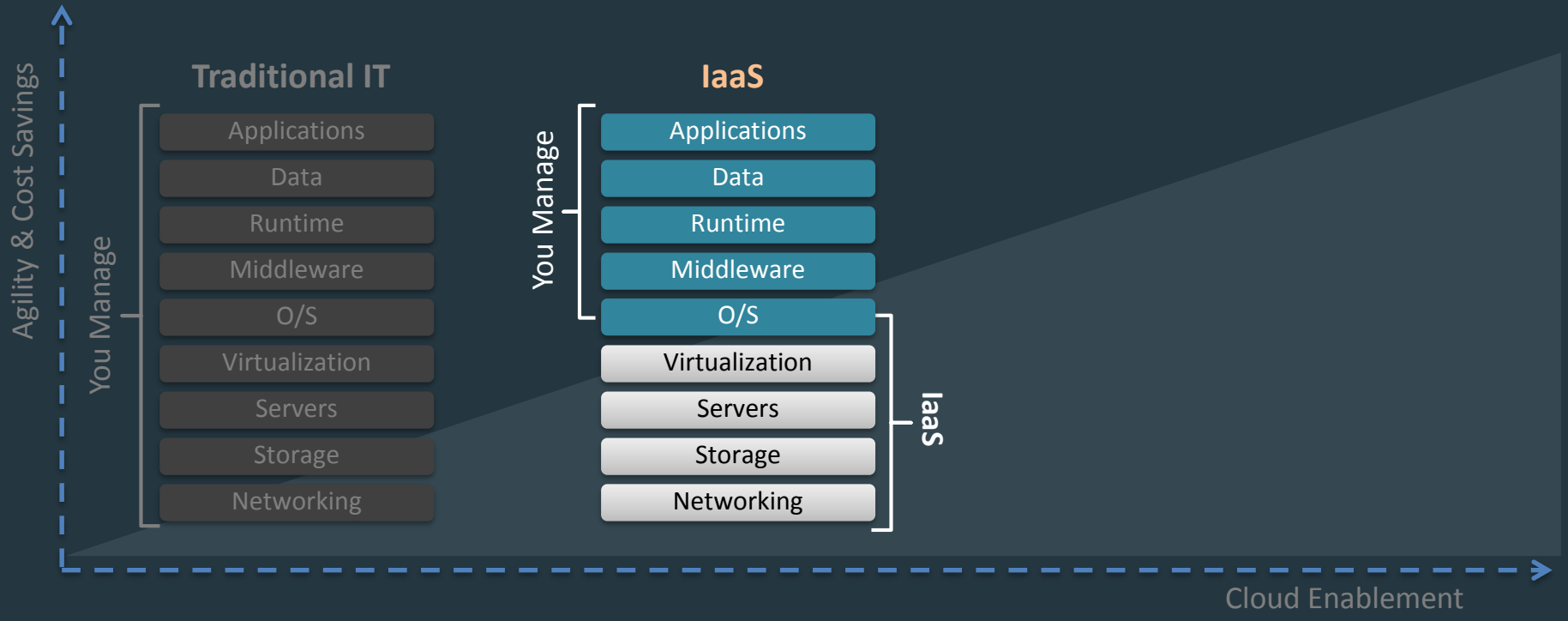
Agenda

1. Evolution of Cloud Architectures
2. Industry Trends
3. Cloud Foundry
4. Pivotal Cloud Foundry

The Power of the Platform



The Power of the Platform



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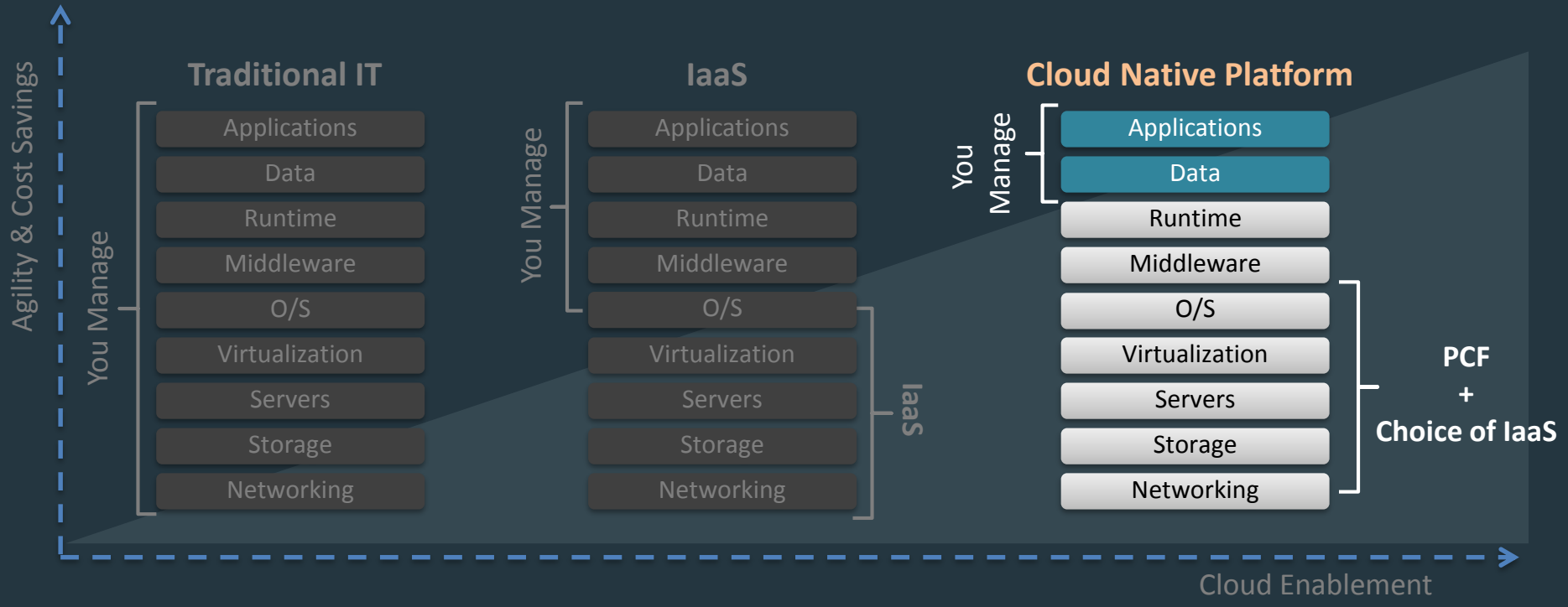

Deploying an Application

IaaS

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

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Deploying an Application

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- Configure Load Balancer
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Pivotal Cloud Foundry

Deploying an Application

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- Configure SSL Termination
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Pivotal Cloud Foundry

Deploying an Application

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Pivotal Cloud Foundry

- cf push

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Pivotal Cloud Foundry

Common application needs are handled by the platform, so you can focus on business value.

Scaling an Application

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Pivotal Cloud Foundry

- cf scale

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Software is Disrupting Every Industry

Silicon Valley is coming.

Jamie Dimon

CEO, JPMorgan Chase

Source: JPMorgan Chase Annual Shareholder Letter 2015

Software is Changing Industries

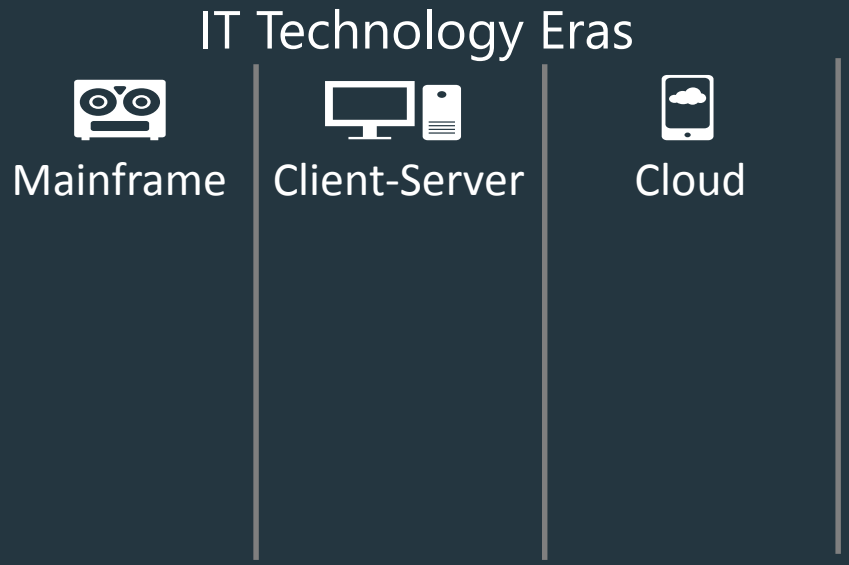
Mobile Trends in the Enterprise

2013
20% of enterprise apps are mobile

2017
90% of enterprise apps will be desktop and mobile

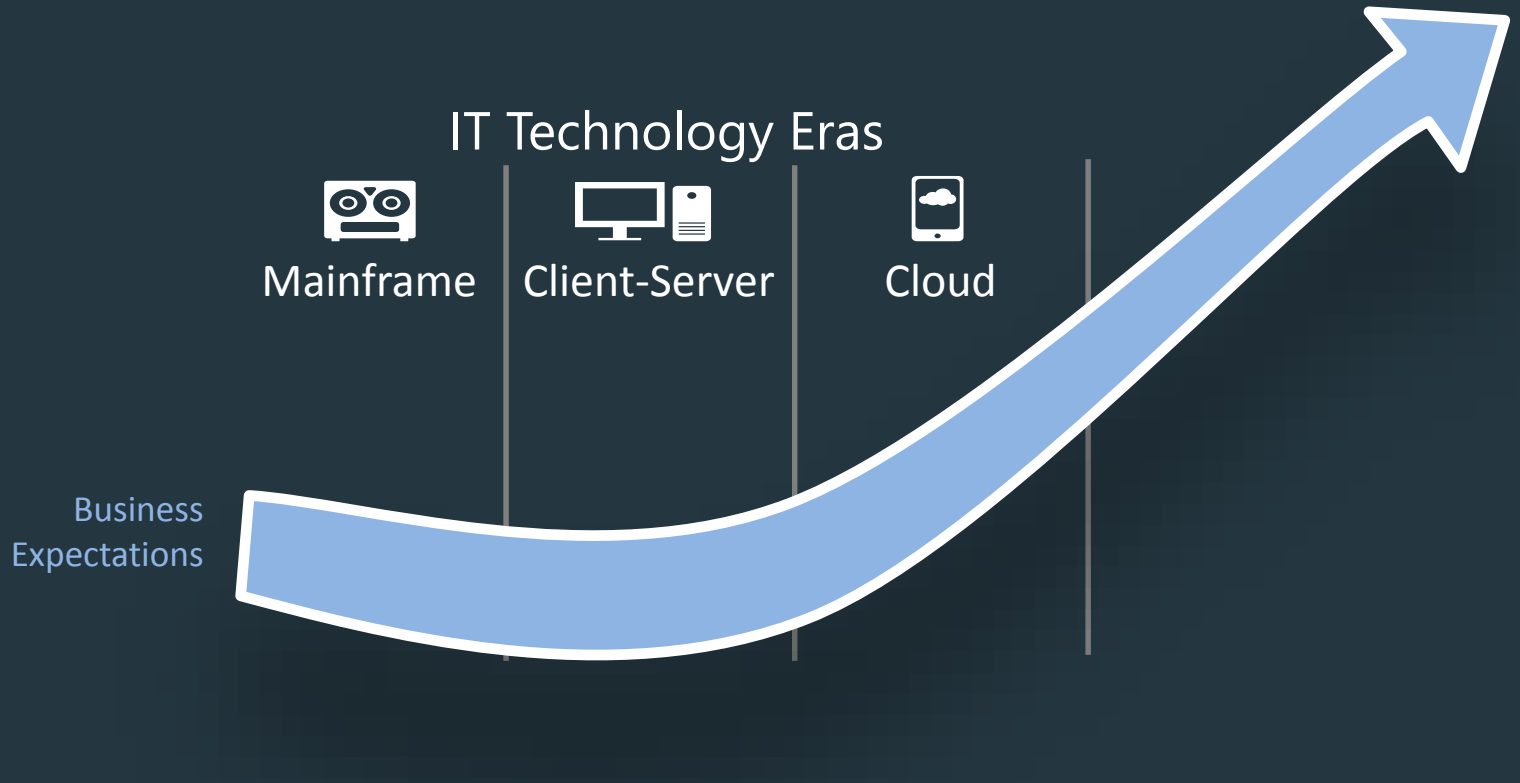
Source: Gartner predicts

Business Needs Exceed IT Expectations



Source: Gartner, 2013: “Hunting and Harvesting in a Digital World: The 2013 CIO Agenda”

Business Needs Exceed IT Expectations



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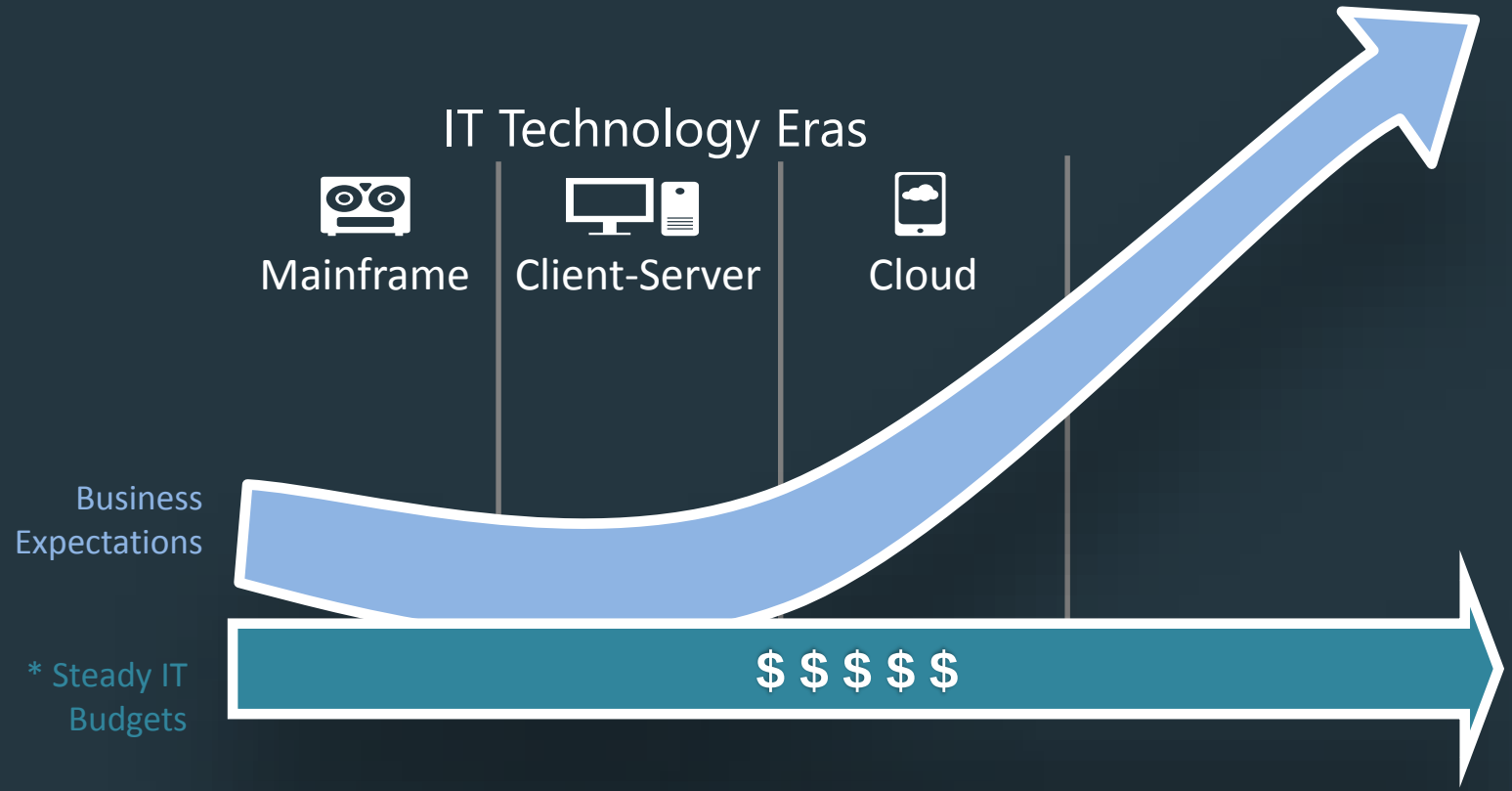

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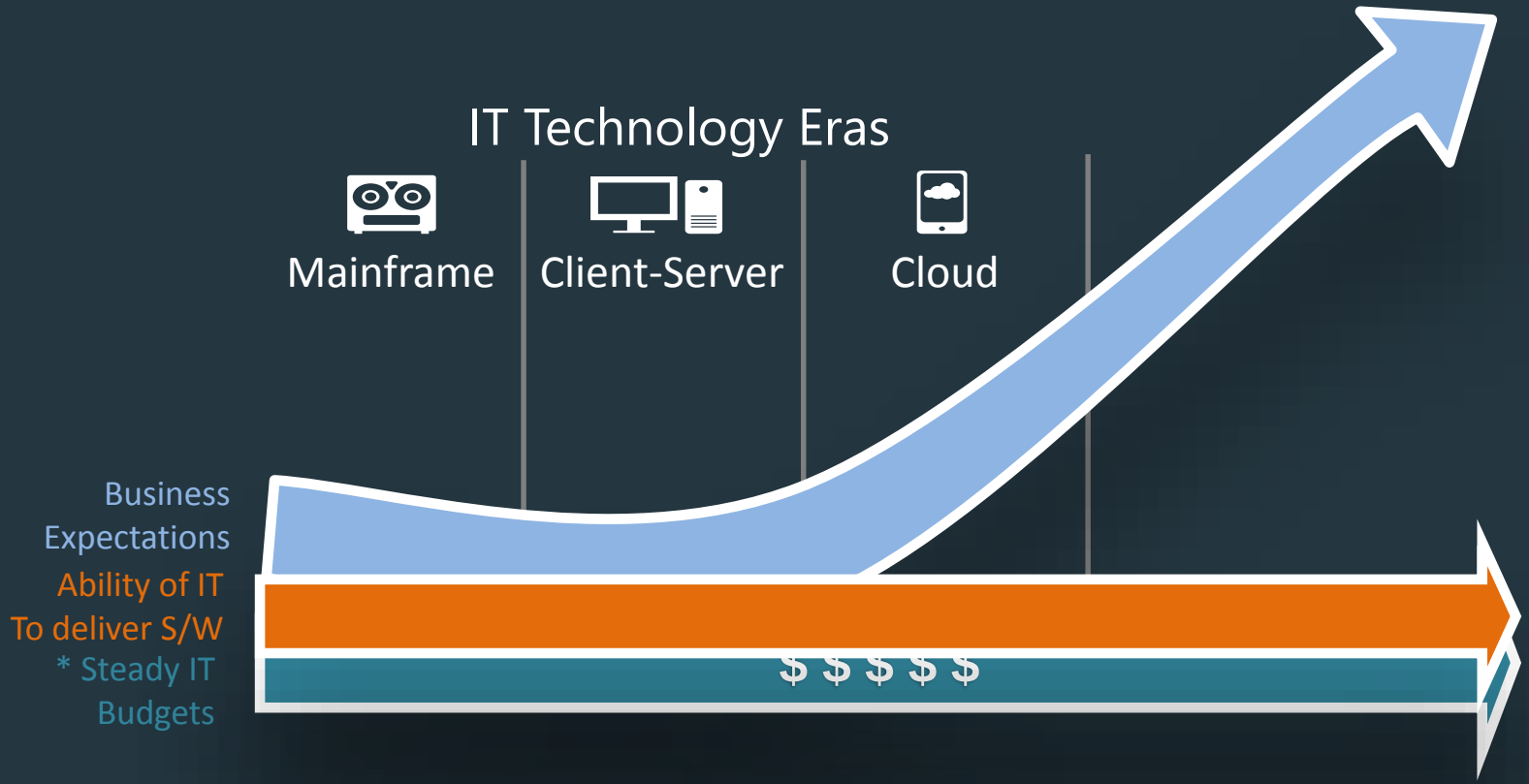

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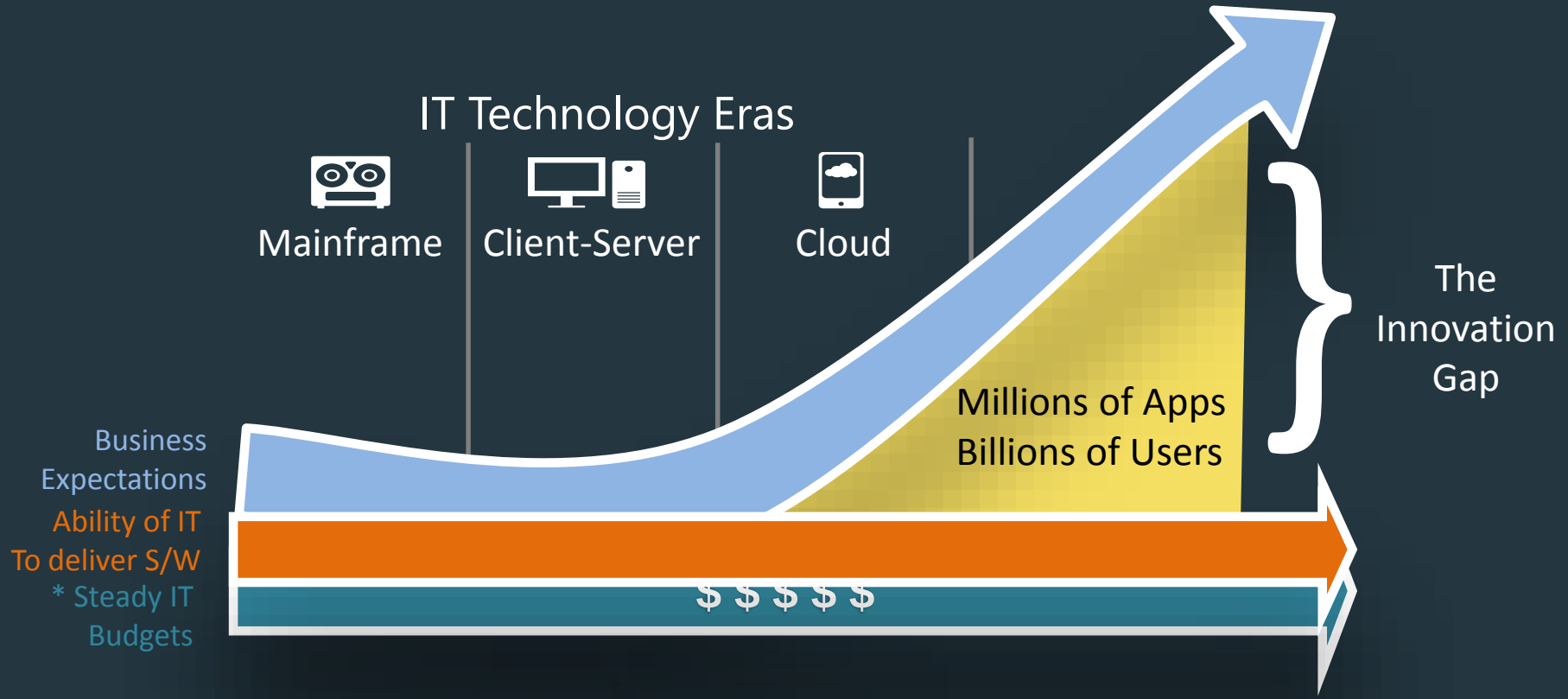

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Software Continues to be Constrained by Silos

Yesterday

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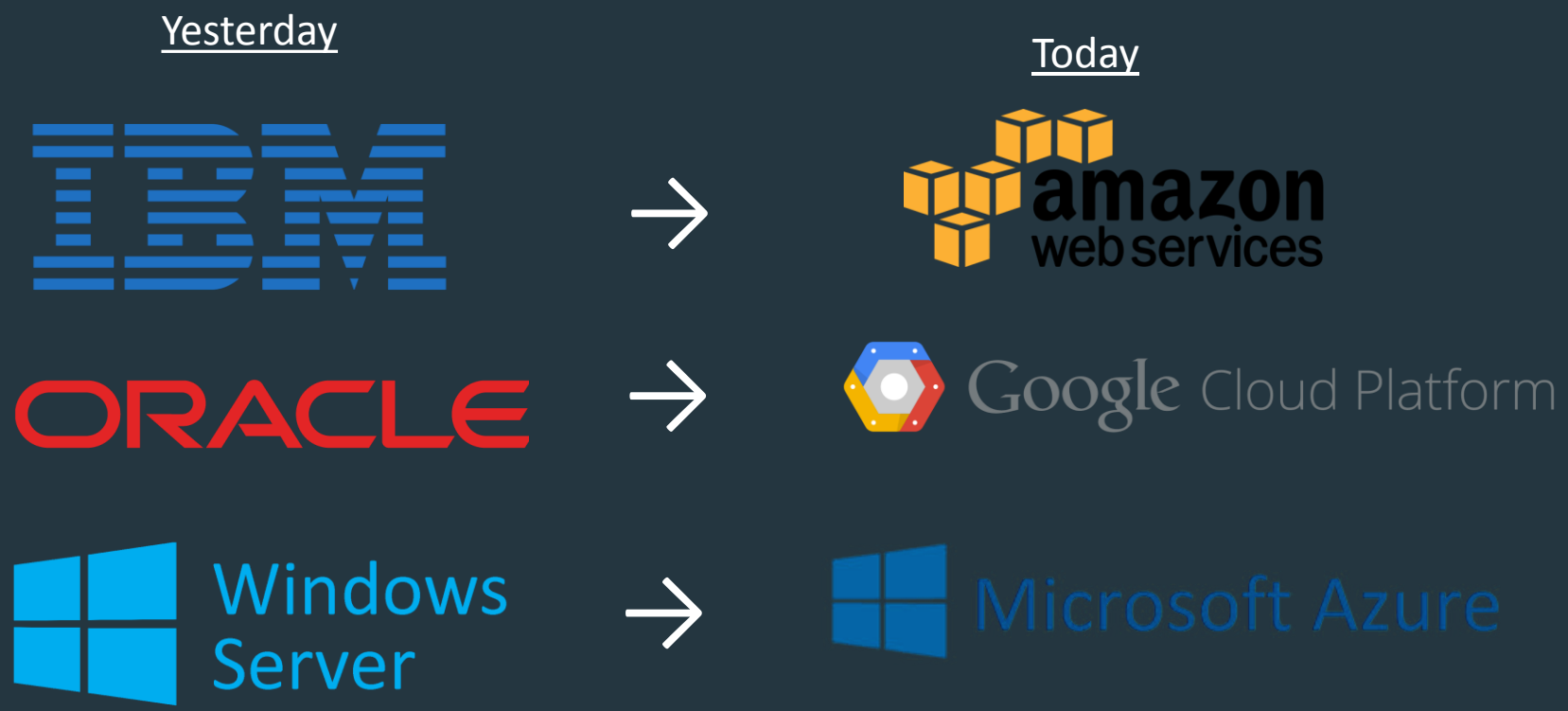

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Cloud Foundry

https://www.cloudfoundry.org

Cloud Foundry Foundation

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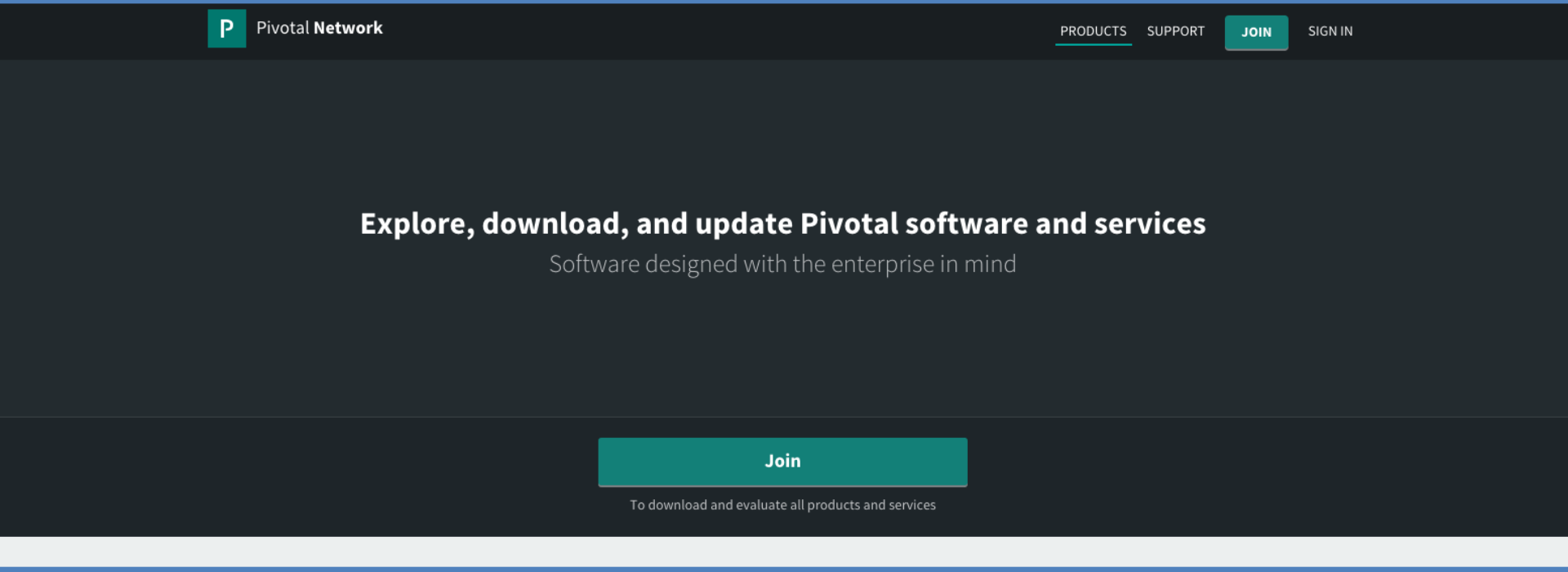
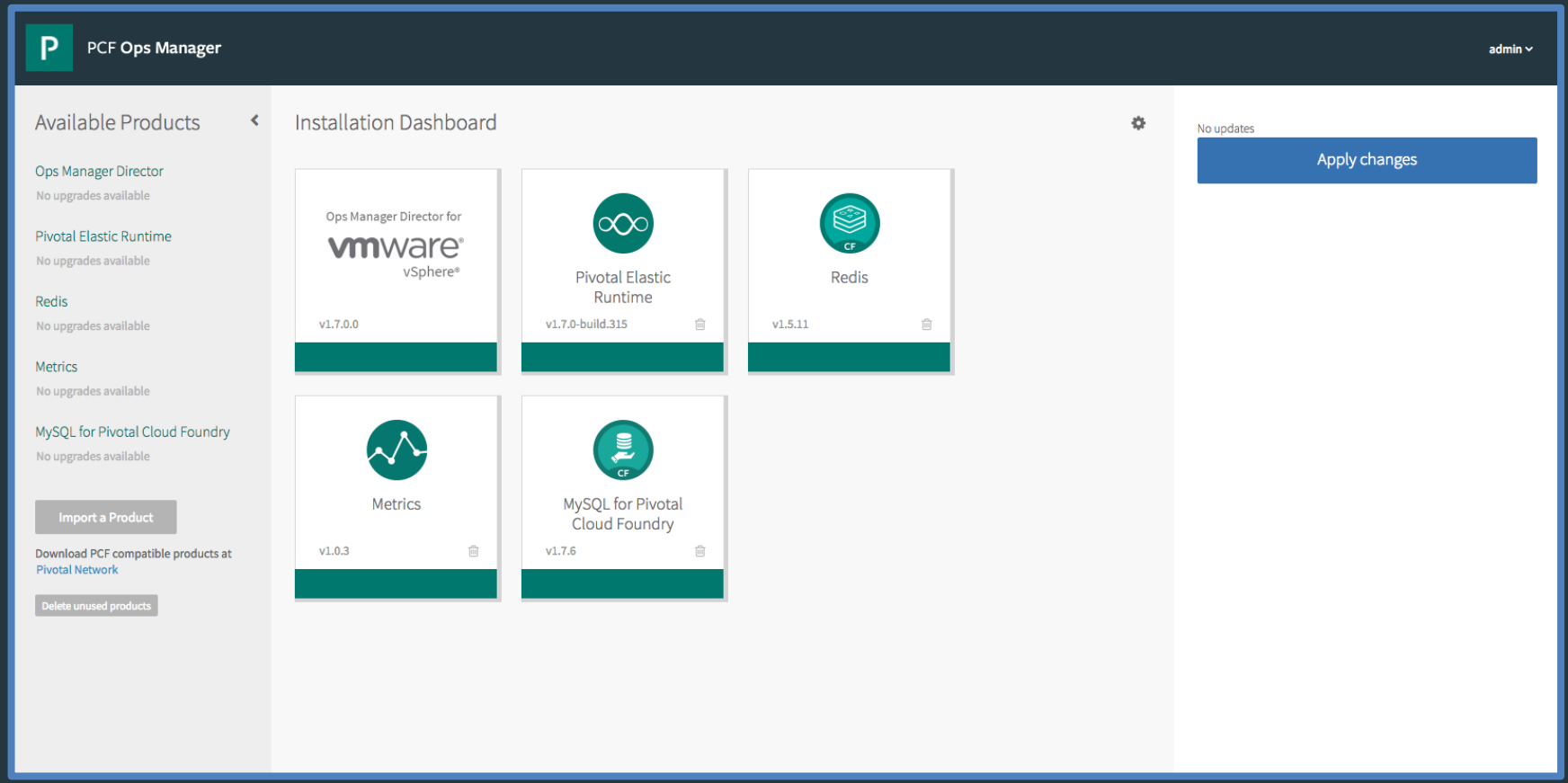
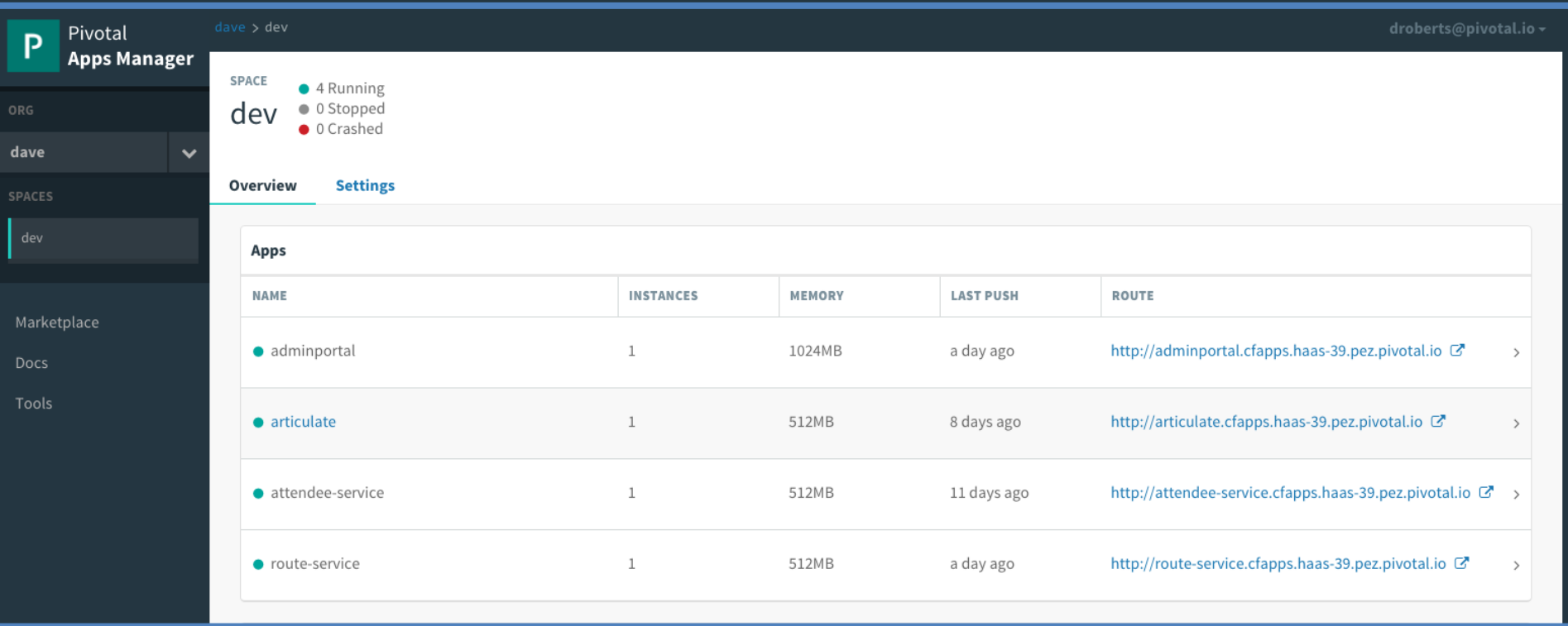
Pivotal Network



Ops Manager


PCF Ops Manager
admin
Available Products
Ops Manager Director
No upgrades available
Pivotal Elastic Runtime
No upgrades available
Redis
No upgrades available
Metrics
No upgrades available
MySQL for Pivotal Cloud Foundry
No upgrades available
Import a Product
Download PCF compatible products at
Pivotal Network
Delete unused products
Installation Dashboard
Ops Manager Director for
vmware
vSphere
v1.7.0.0
Pivotal Elastic Runtime
v1.7.0-build.315
Redis
v1.5.11
Metrics
v1.0.3
MySQL for Pivotal Cloud Foundry
v1.7.6
No updates
Apply changes

Apps Manager



Service Menu

Redis

Single Sign-On

apigee

RabbitMQ

MySQL

CloudBees
Jenkins

Spring Cloud
Services

AWS

Pivotal Cloud Foundry Core Tenets

Self Serve Platform for Developers

cf push

Service Marketplace

Microservice Ready

Pivotal Cloud Foundry Core Tenets

Operationally Robust

Elastic Scale
High Availability
Metrics
Logs
Quotas

Pivotal Cloud Foundry Core Tenets

IaaS Independent

AWS

VMware

Openstack

Azure

Pivotal
Transforming How The World Builds Software