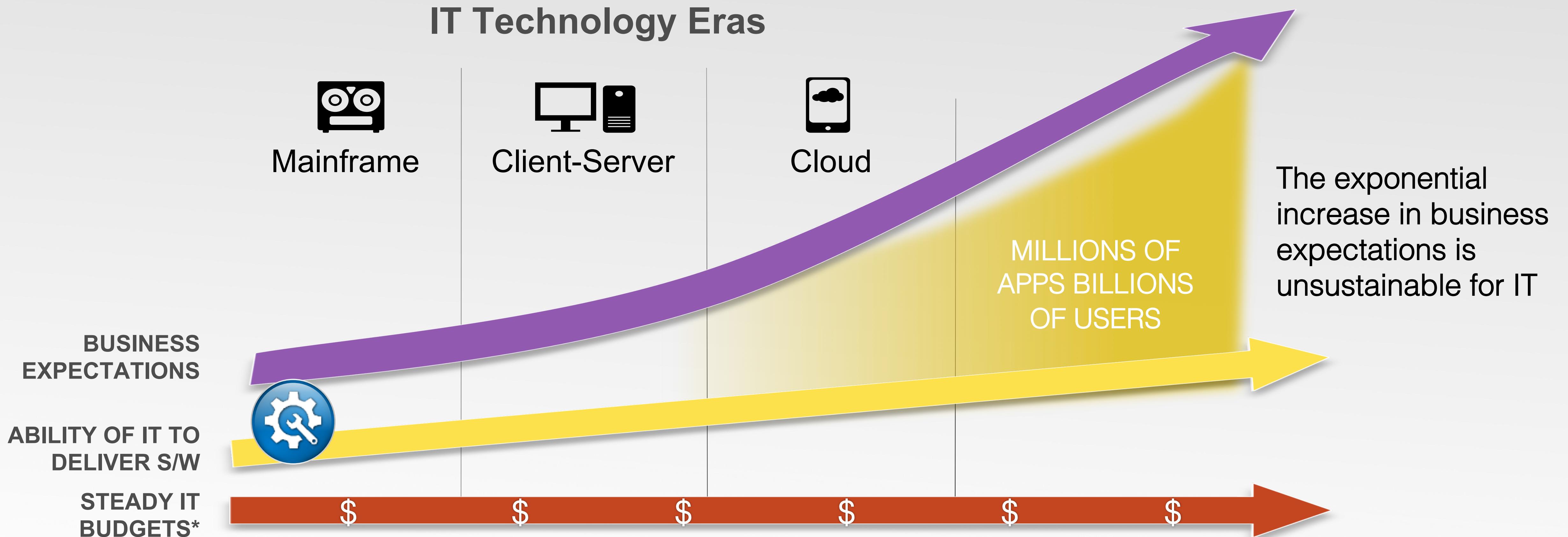


Pivotal

A NEW PLATFORM FOR A NEW ERA

Intro to Pivotal CF

Business Expectations Exceed IT Capabilities

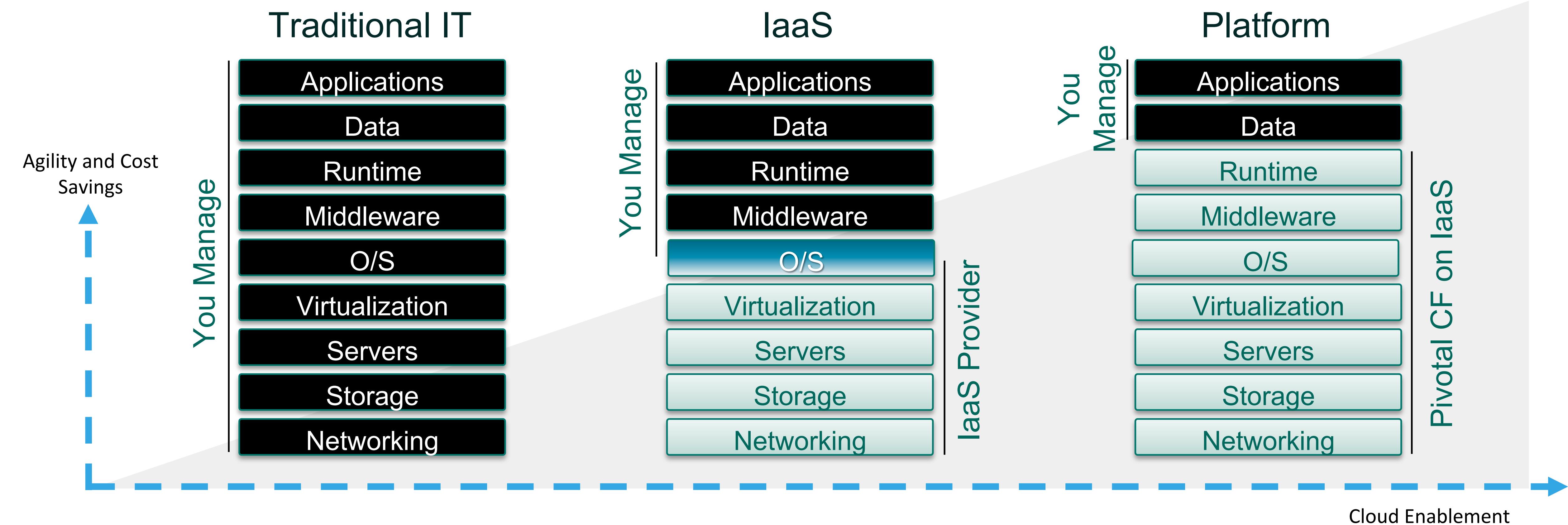


* Source: Gartner, 2013: "Hunting and Harvesting in a Digital World: The 2013 CIO Agenda"

Pivotal

THE POWER OF STRUCTURED PLATFORM

THE “IT JUST WORKS” EXPERIENCE



Pivotal CF™

-  **How a developer would engage with the platform**
-  **How an operator would engage with the platform**
-  **Application orchestration and container scheduling**
-  **Tools for adding and binding services**
-  **Logging, monitoring and tracing within the system**

Platform to run applications
in a Scalable and highly
Available manner

Cloud Foundry in Action

The “It Just Works” Experience

Pivotal CF™

-  Provision VM
-  Install Application Runtime
-  Deploy Application
-  Configure Load Balancer
-  Configure SSL Termination
-  Configure Service Connectivity
-  Configure Firewall

 cf push

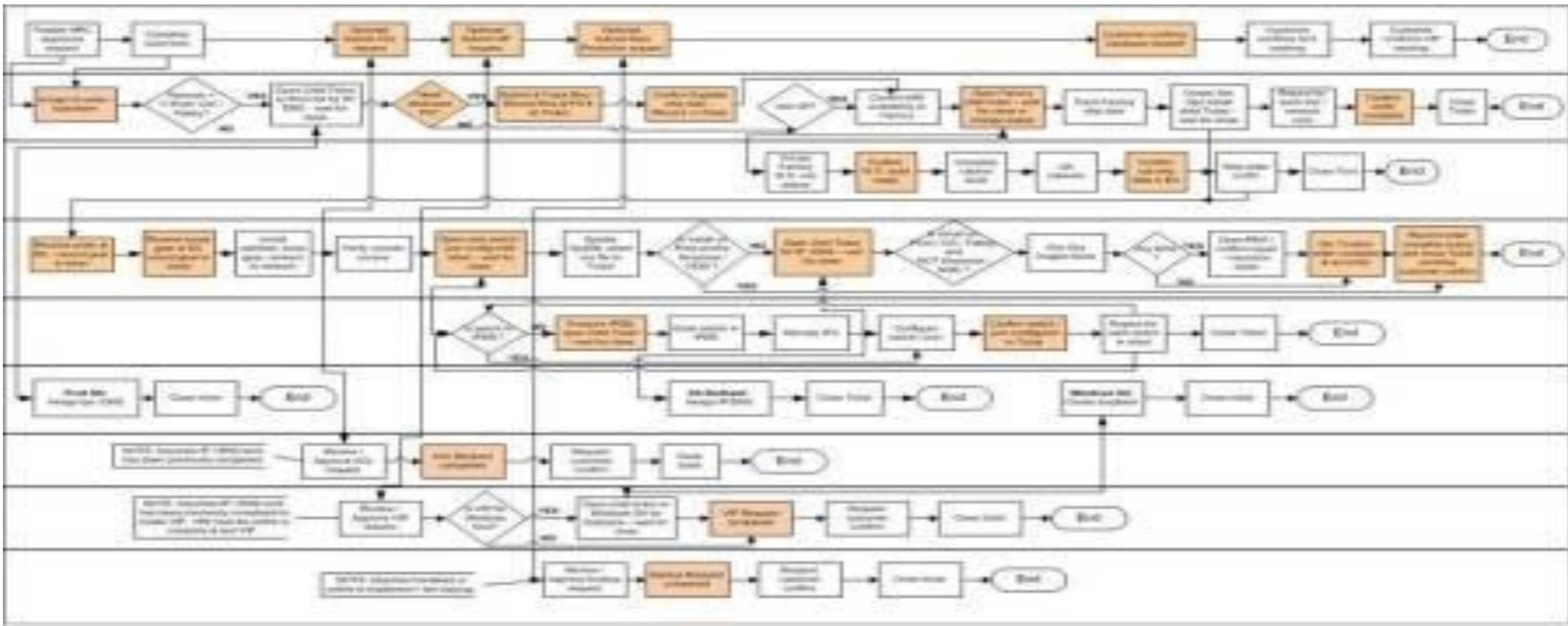
Pivotal CF™

-  **Provision New VM**
-  **Install Application Runtime**
-  **Deploy Application**
-  **Configure Load Balancer / Update Route**
-  **Configure Service Connectivity**
-  **Configure Firewall**



cf scale

Taking the Application Lifecycles From Months...



...to Hours and Minutes

DEVELOPER

Auto-select runtimes
Deploy app
Select and bind middleware
Scale app

The screenshot shows the Pivotal CF interface. At the top, it displays the application 'Spring Music' with 100 instances and 128MB memory. Below this, under 'SERVICES', it lists 'mysql staging' and 'rabbitdev'. A red box highlights the 'Pivotal RabbitMQ' entry. On the right, there's a 'TEAM' section listing several users.

OPERATOR

Establish infrastructure
Provision
Add capacity
Control Auth, Policies, HA

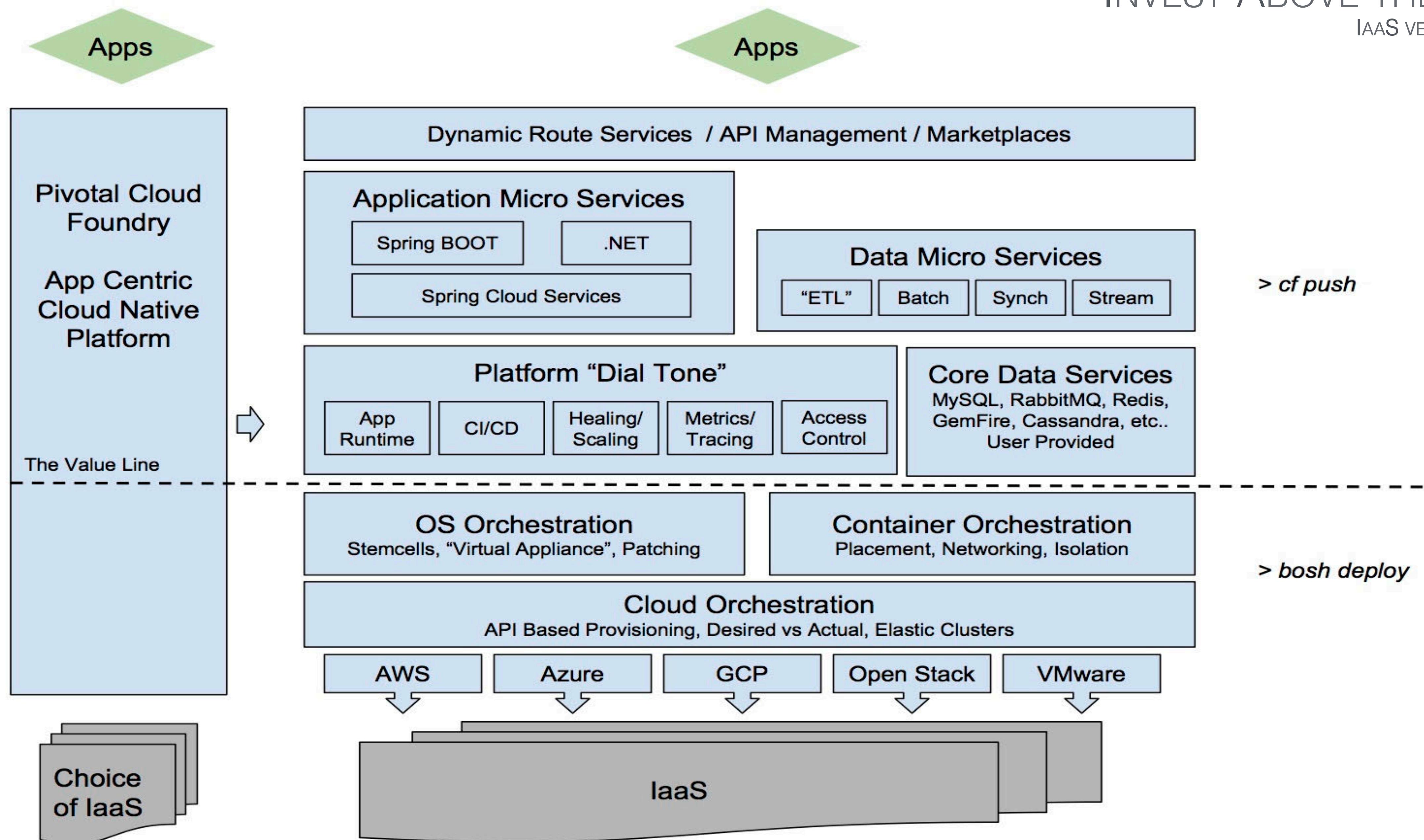
The screenshot shows the Pivotal Ops Manager interface. It features a sidebar with 'Available Products' including 'Pivotal RabbitMQ', 'Ops Manager Director for VMware vSphere', 'Pivotal Elastic Runtime', 'HD', 'Metrics', and 'Pivotal MySQL Dev'. The main area is titled 'Installation Dashboard' and shows three product cards: 'Ops Manager Director for VMware vSphere' (v1.1.0), 'Pivotal RabbitMQ' (v1.1.0), and 'Pivotal Elastic Runtime' (v1.1.0). A red dashed box surrounds the 'Pivotal Elastic Runtime' card.



App Deployment: 30-90 seconds



Cloud Deployment: 2-4 hours



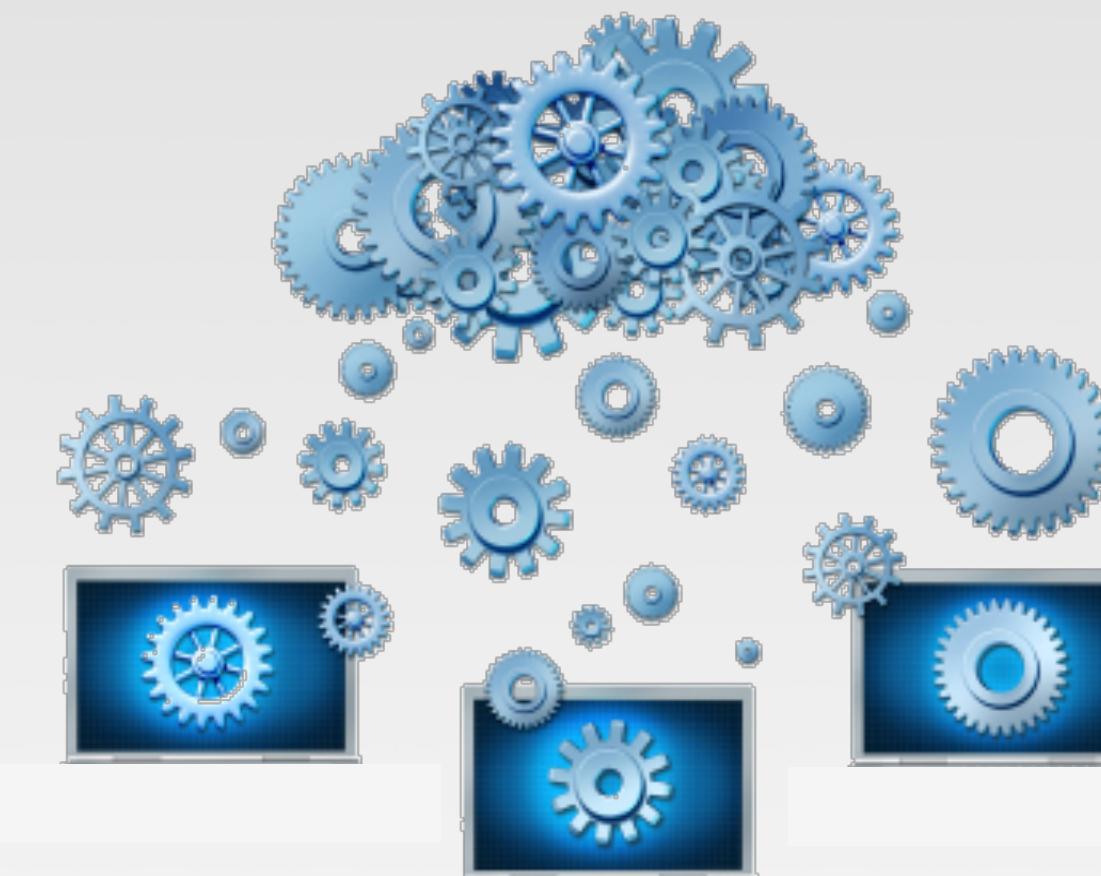
Rapid Innovation requires a New Approach

DEVELOPERS



- Dramatically improve developer experience
- Agile teams, rapid iteration
- Ingest and incubate open source advancements and new data services

OPERATORS



- Continuous delivery, no planned downtime
- Instant scaling of apps and data services
- Automation and deployment consistency at every step

Pivotal CF

Enterprise Cloud Foundry



CLOUD
FOUNDRY™

The leading
enterprise distribution
of Cloud Foundry is..
Pivotal CF



Pivotal CF™

Pivotal®

Radically Simple, Developer Friendly

- Push an app and “it just works”
- Build applications that consume increasing amounts of data, supporting wide ranging use cases
- Support new application patterns like Microservices

Easy to add and customize

Broad Ecosystem Services

Data Services

App Services

Mobile Services

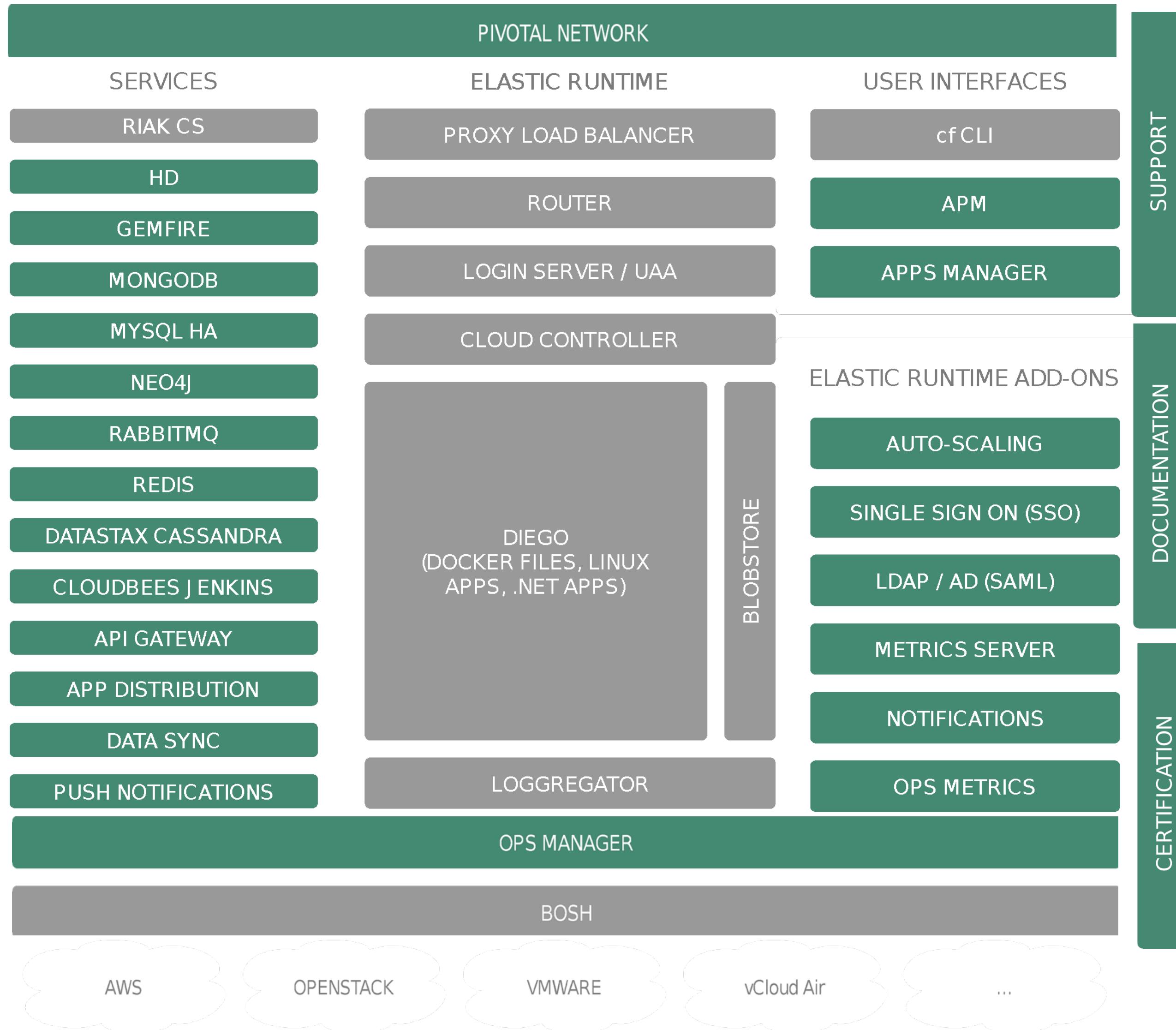
Operational Benefits for Every Application

- Highly scalable, self healing
- Logging and audit trail requirements
- Existing enterprise policies on user access & authorization
- Application Monitoring and Operational metrics
- Application Uptime SLAs

Deploy, Operate, Update & Scale with minimal downtime on Any IaaS



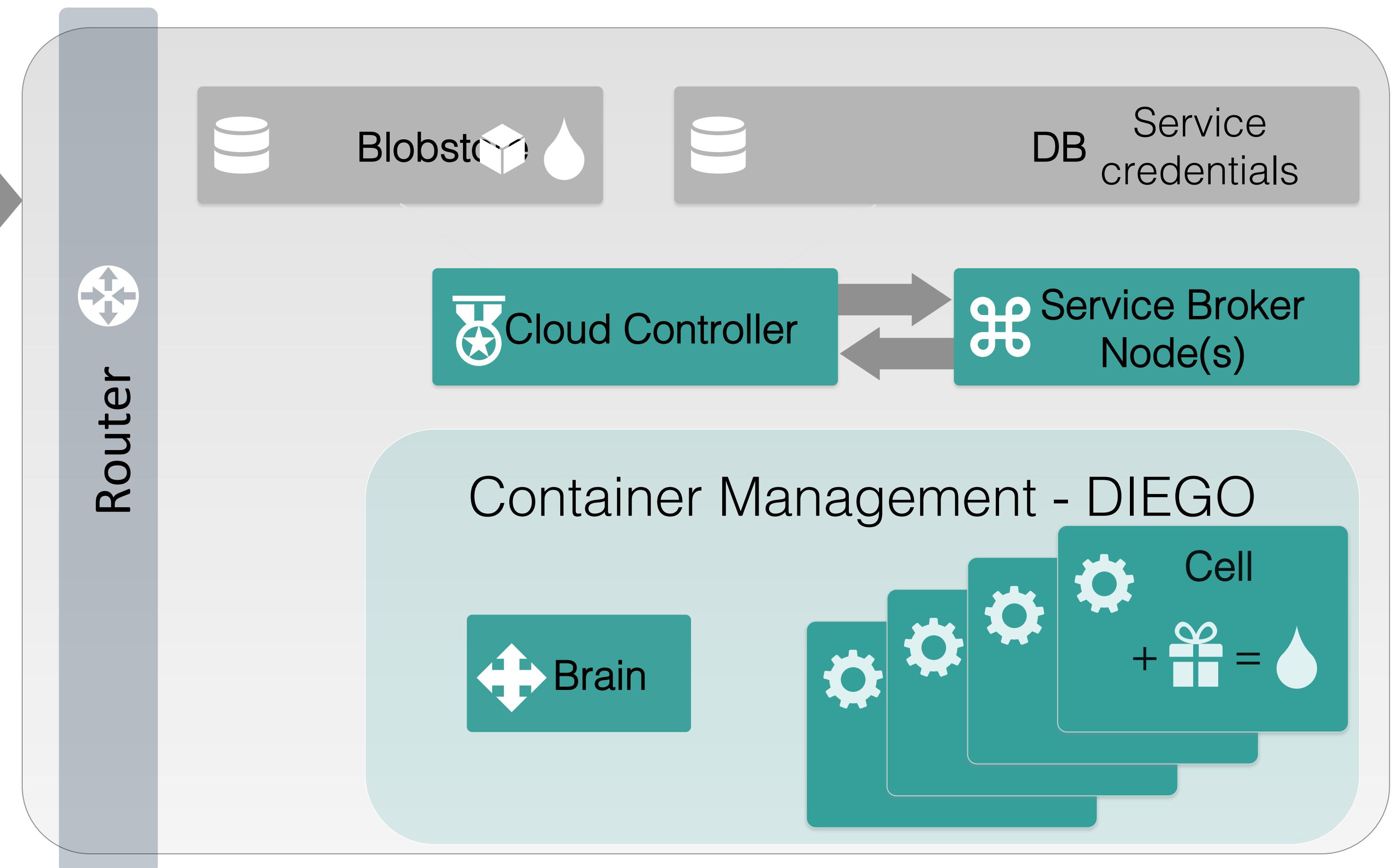
....and more



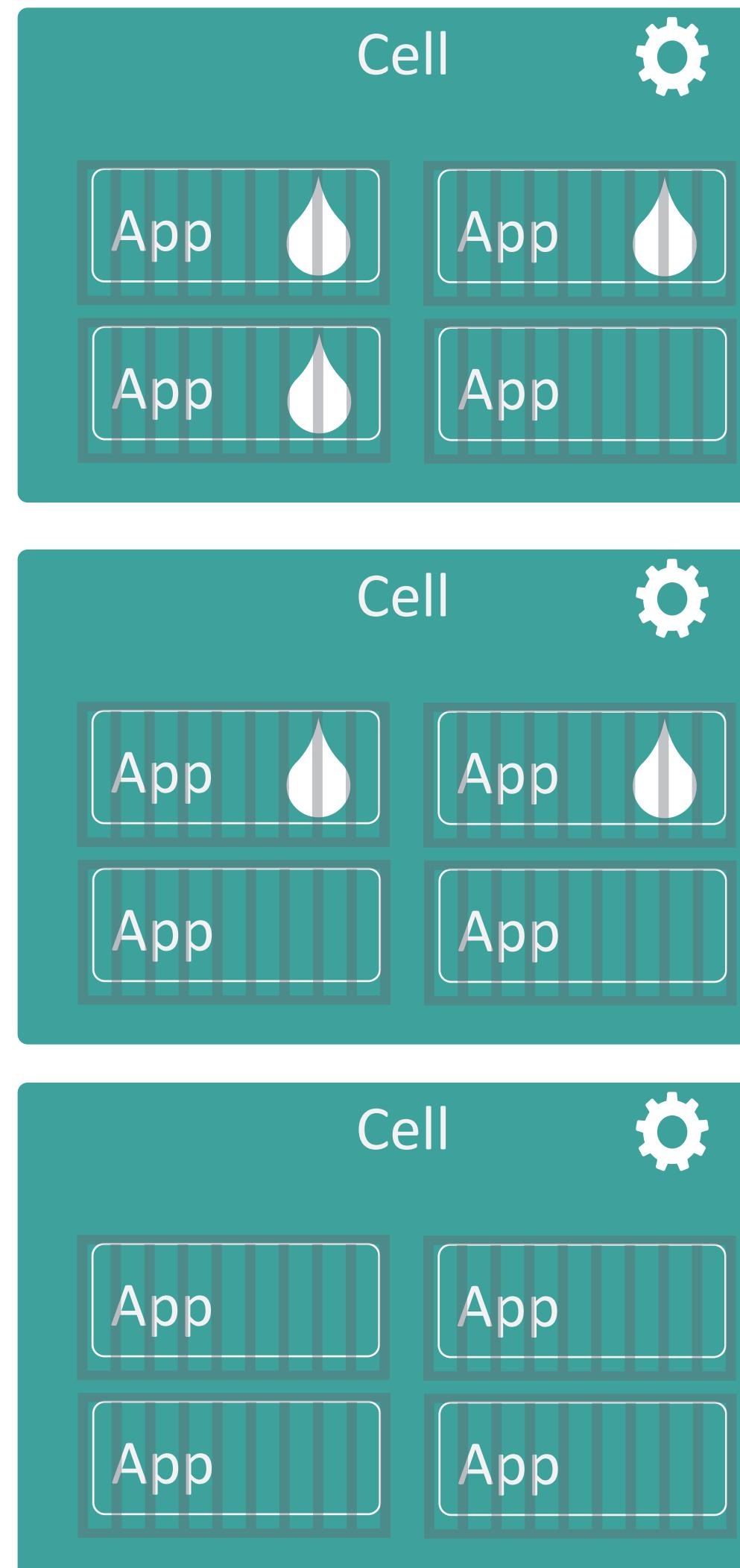
- Multi-cloud platform, that is infrastructure agnostic
- Single pane of glass visibility into entire platform
- Enables portability and security of applications

DEPLOYING AN APPLICATION

- ① Upload app bits and metadata
- ② Create and bind services
- ③ Stage application
- ④ Deploy application
- ⑤ Manage application health

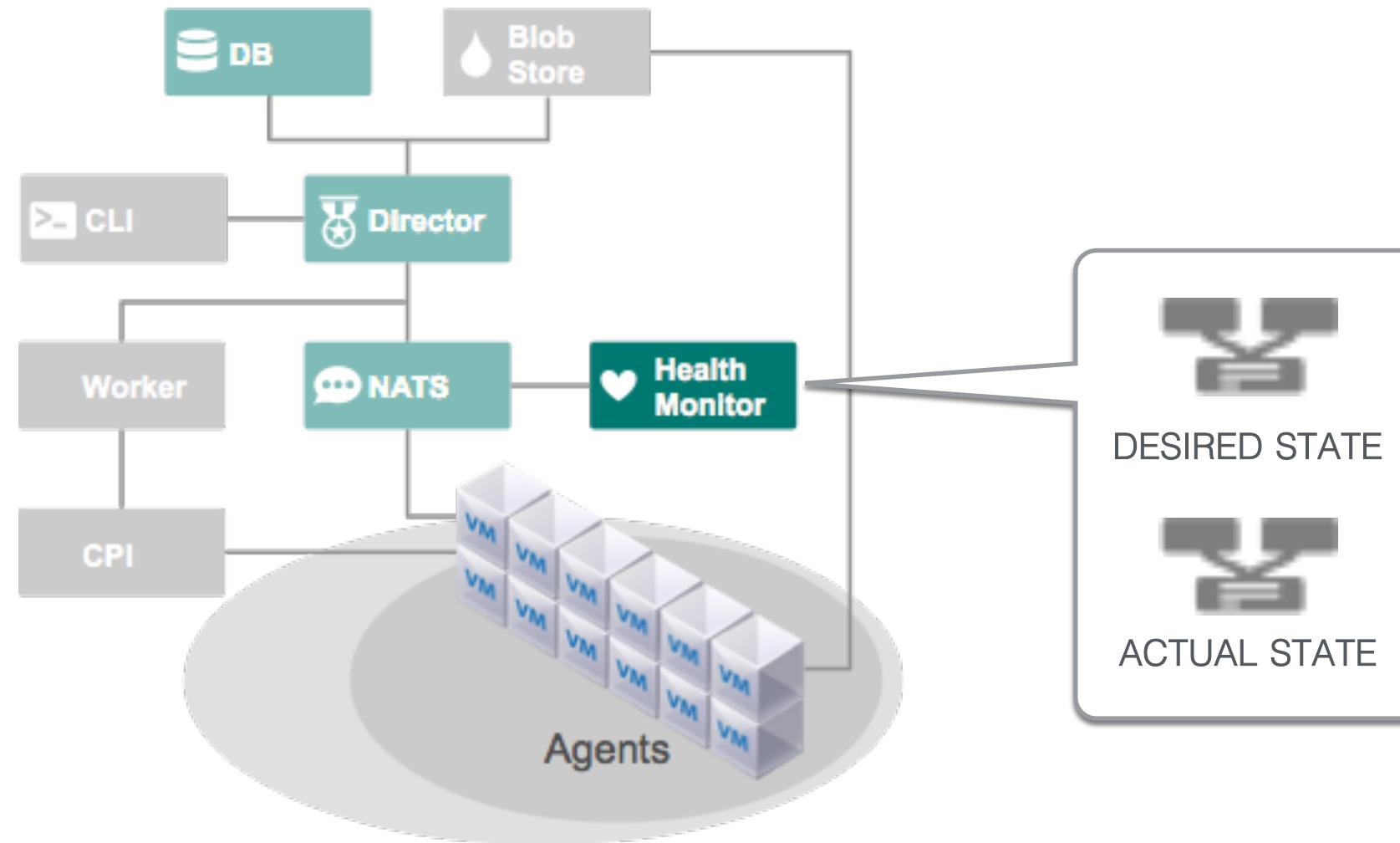


Pivotal™

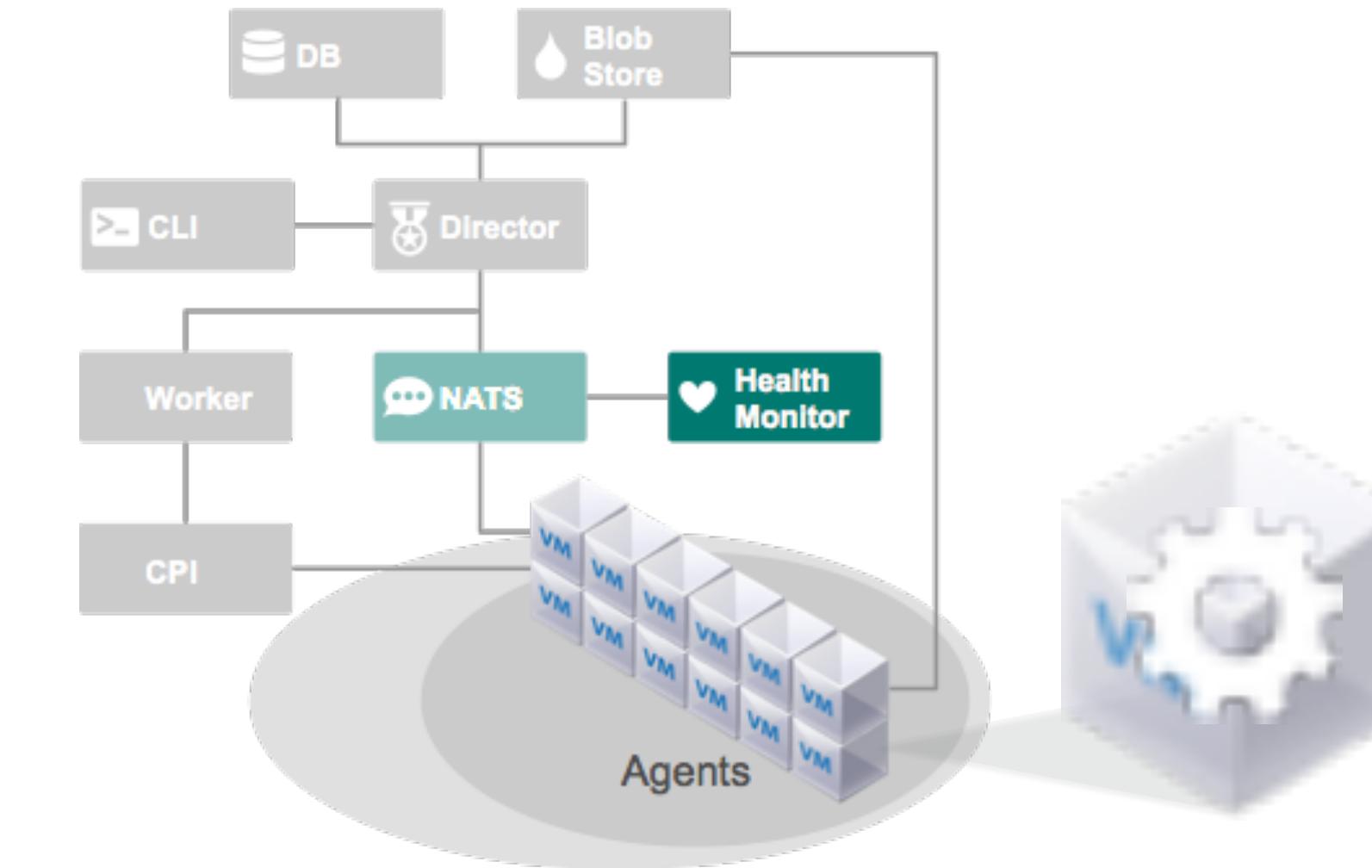


- Docker is:
 - Image format
 - A runtime/interpreter for Docker images leveraging linux container support
- Garden is a runtime/interpreter, leveraging linux container support, for:
 - Droplets (linux containers)
 - Docker images (linux containers)
 - .Net applications (windows “containers”)
- Windows cells installed via msi

4 LEVELS OF HIGH AVAILABILITY

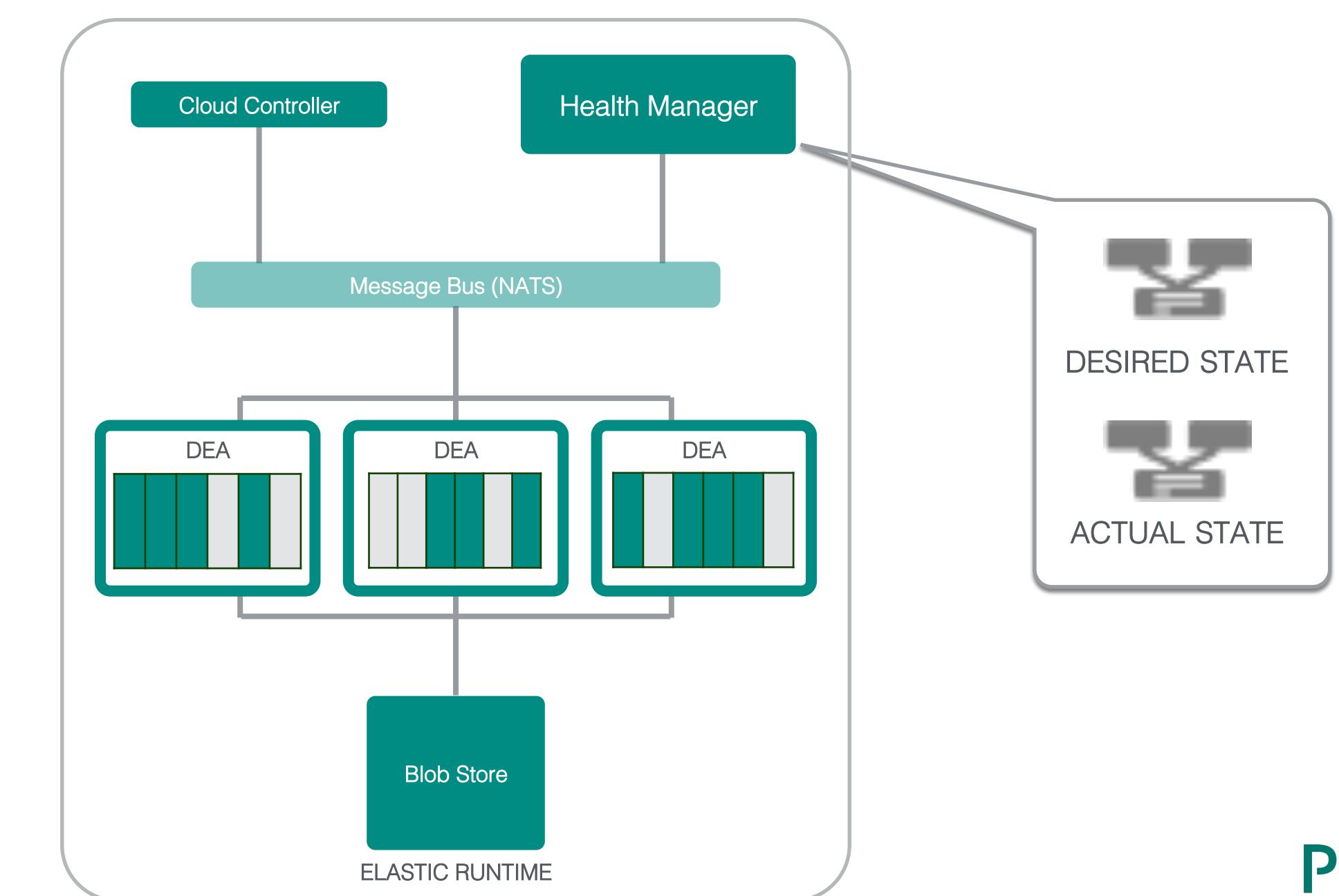
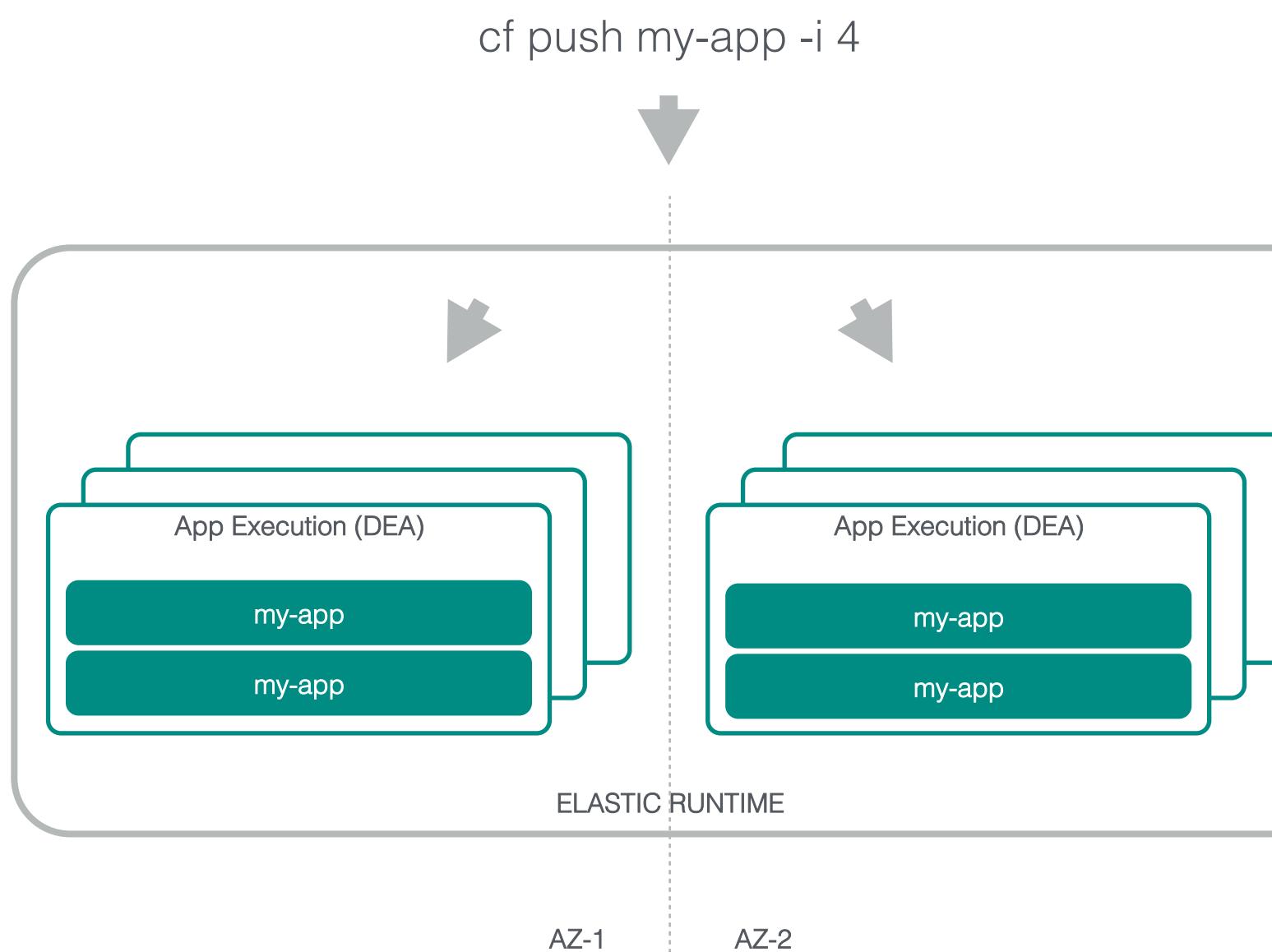


FAILED VMs ARE RECOVERED



FAILED PROCESSES ARE RECOVERED

APPLICATION INSTANCES BALANCED ACROSS AVAILABILITY ZONES



Cloud Foundry

The community and ecosystem

The Open Platform



CLOUD FOUNDRY
COMMUNITY

COMMERCIALLY SUPPORTED ENTERPRISE PLATFORM BY PIVOTAL

Pivotal CF™

- Certified upgrades, curated & tested quarterly releases
- Operations Manager Cloud Administrative Console
- Elastic Runtime Users Console
- Built-in Application Performance Monitoring (APM)
- Operational Metrics service
- Auto-Scaling service
- Easy LDAP/Active Directory Integration
- Historical Usage Data per Application Instance
- Declarative Availability Zones
- Behind the firewall download packages (do not require internet access)
- Enterprise documentation (PDF format)

Pivotal

A NEW PLATFORM FOR A NEW ERA