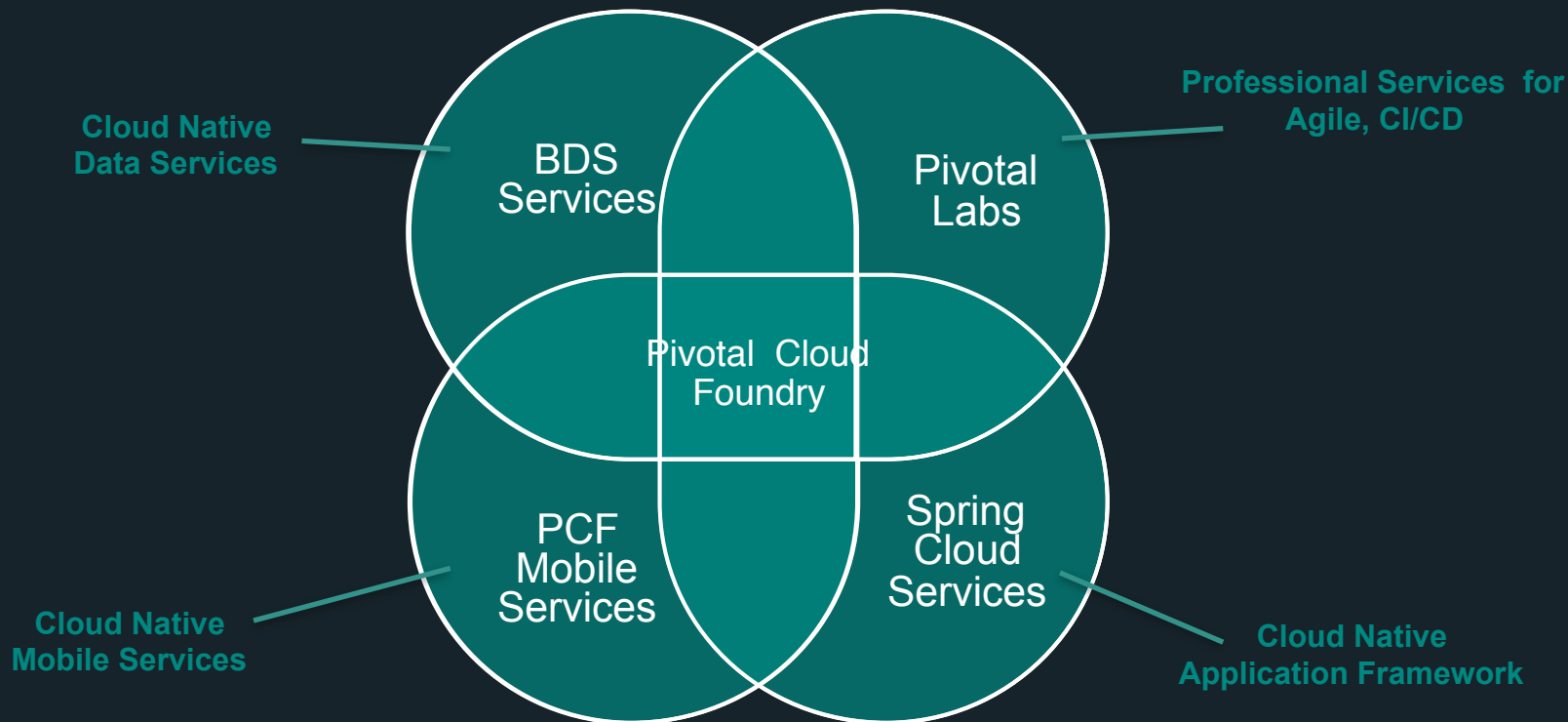


Pivotal Cloud Foundry

Services

Cloud Native Application Platform - Services



What is a Service

- Allows resources to be easily provisioned on-demand
- Typically middleware, frameworks, and other “components” necessary for applications
- Can be a persistent, stateful layer



Two Types of Services



- **Managed** - Fully integrated, with full lifecycle management
- **User-Provided** – Created and managed external to the platform

Pivotal Cloud Foundry Services

Mobile



API Gateway



Push Notification



Data Sync



App Distribution

Data



Redis



MySQL



Session state caching



Neo4j



DataStax
Cassandra



GemFire



PivotalHD



MongoDB

Other



RabbitMQ



Jenkins
Enterprise



Spring XD



Single Sign-on

Spring Cloud



Config
Server



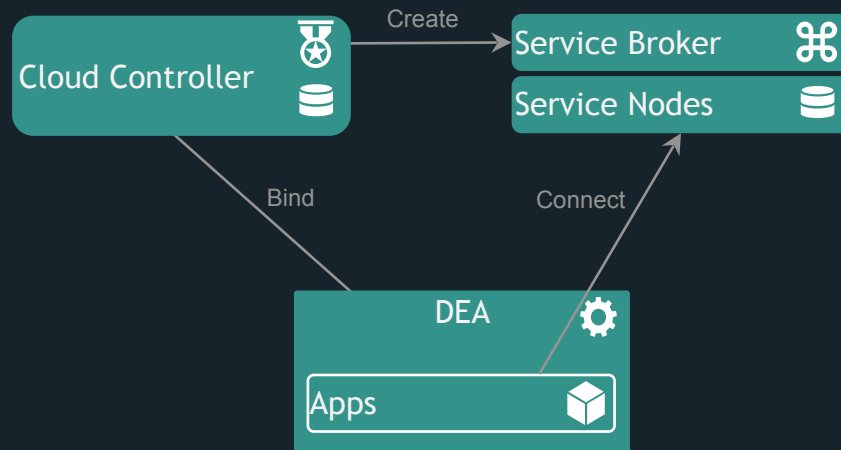
Service
Directory



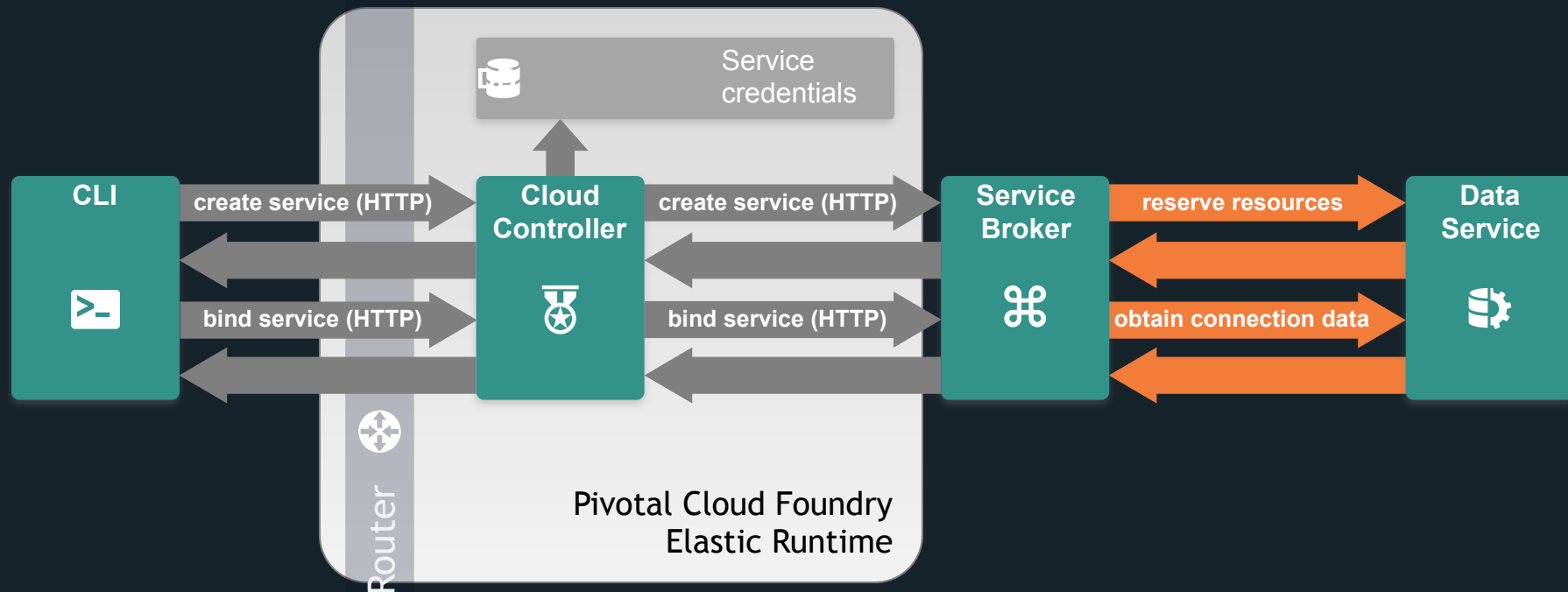
Circuit
Breaker

Service Broker

- Flexible, RESTful API
- Allows Service Authors to provide self-provisioning Services to developers



Creating and Binding a Service



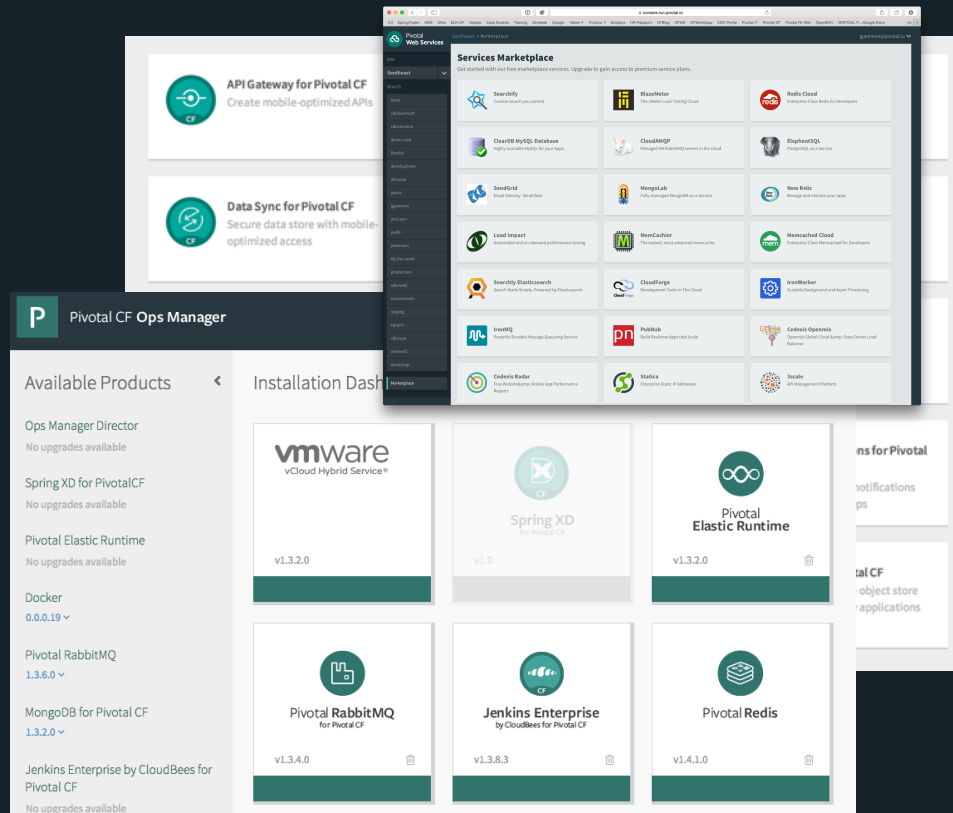
Pivotal Cloud Foundry Services



- Operated 'as a Service'
- Configured and integrated to enable push button deployment
- Full lifecycle management - software updates and patching
- Bind to apps through an easy-to-use interface
- Common view into access control and audit trails across a breadth of services

PCF Marketplace

- Broad Services Ecosystem
- Easy accessibility
- Quick, self-provisioning

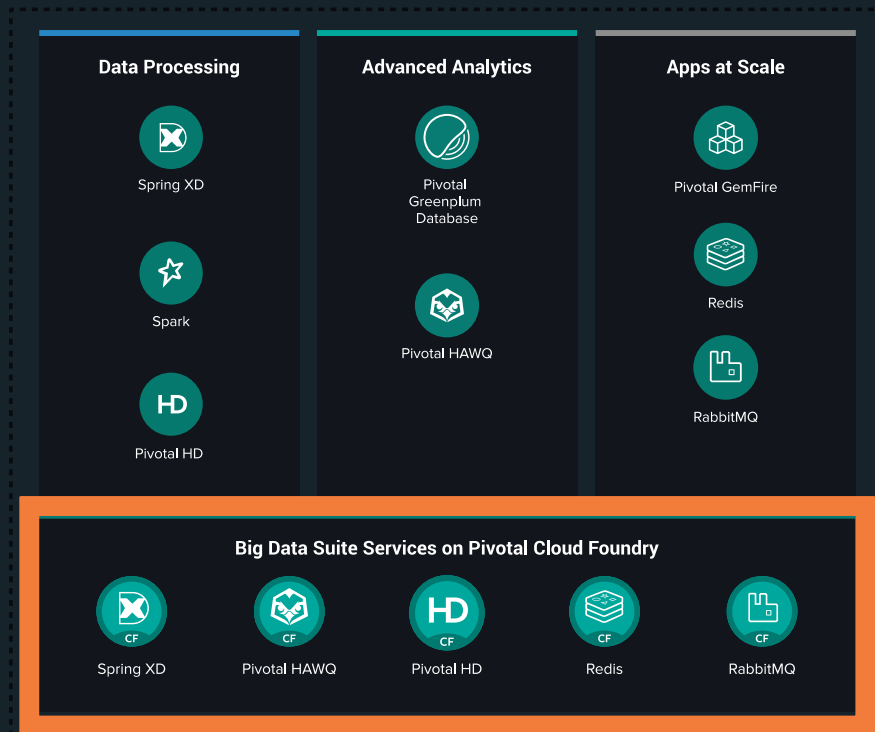


BDS Vision: Make all data products cloud-ready.

Open.
Agile.
Cloud-ready.

Pivotal BDS on PCF

- ✓ **Production:** RabbitMQ, Redis, GemFire/Geode
- ✓ **Beta:** PivotalHD (includes HAWQ), Spring XD

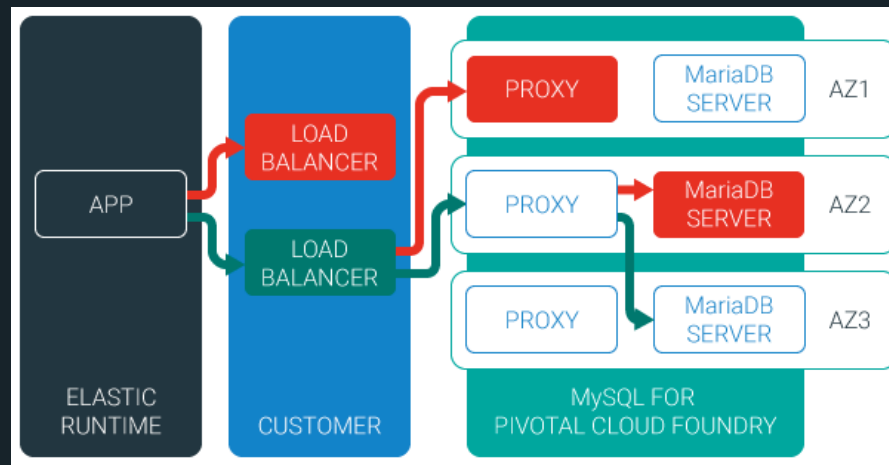


MySQL for Pivotal Cloud Foundry

Relational Database as a Service for Your Applications



- Minimized effort to create, configure, and manage a MySQL cluster
- Multi-node cluster
- Data replication across nodes
- Failover functionality ensures app traffic only routed to healthy nodes

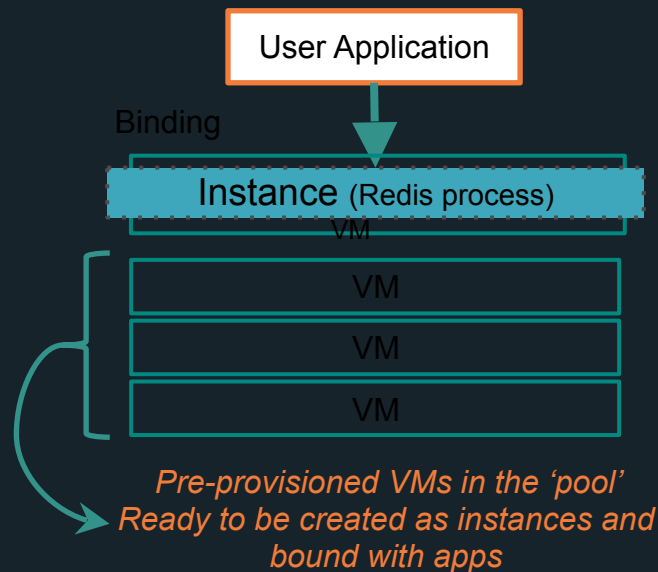


Redis for Pivotal Cloud Foundry

Advanced Key-Value Store and Cache as a Service



- Pre-provision a pool of Redis VMs
- Supports persistence to disk
- Consolidated logging and monitoring
- VM health monitoring, and recovery



RabbitMQ for Pivotal Cloud Foundry

Apps safely send and receive messages at scale



- Messaging broker for communication between servers, applications and devices
- Highly available queues, flexible routing, support for multiple protocols and client libraries
- Wide range of client libraries, in all languages
- Push button deployment and upgrades of a RabbitMQ Cluster

