

Deploying Cloud Foundry

Overview

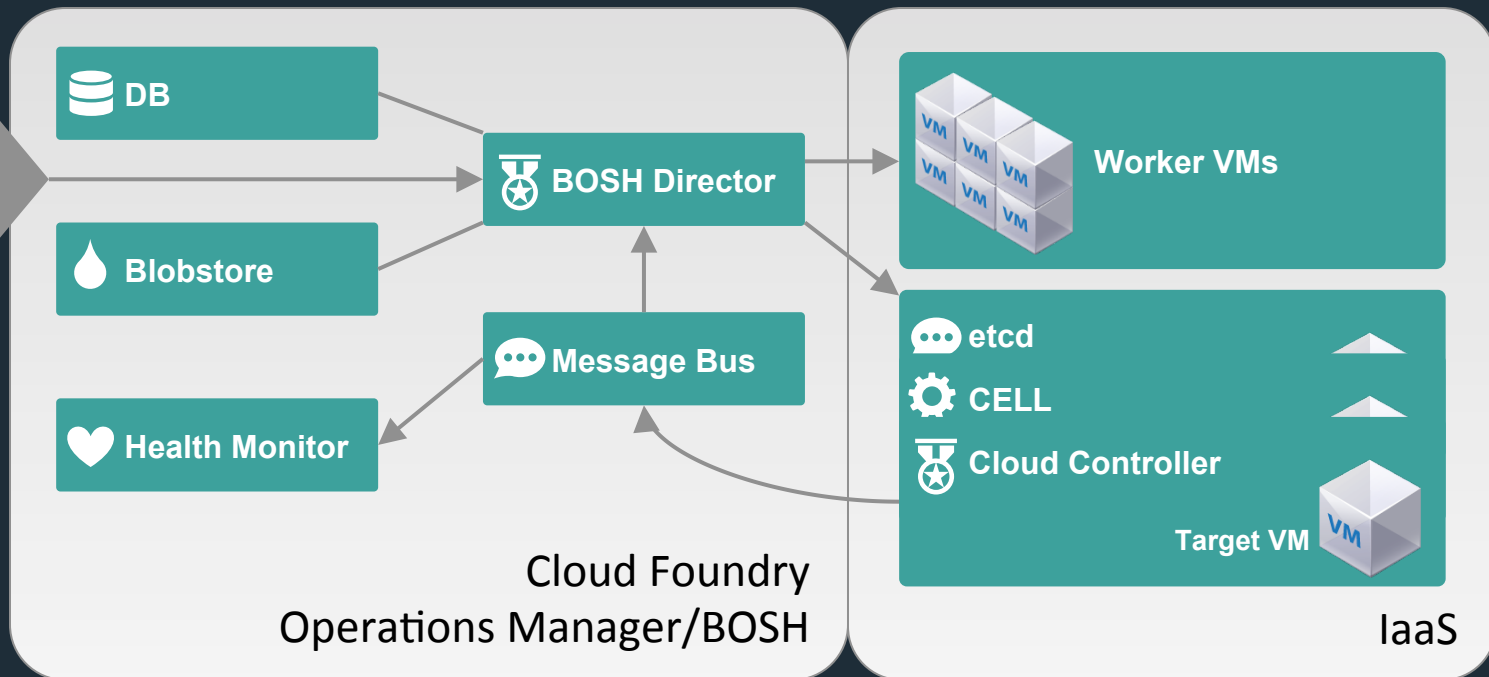
Deploying the CF Runtime with Cloud Foundry BOSH



Deploy new
CF Instance

Deployment

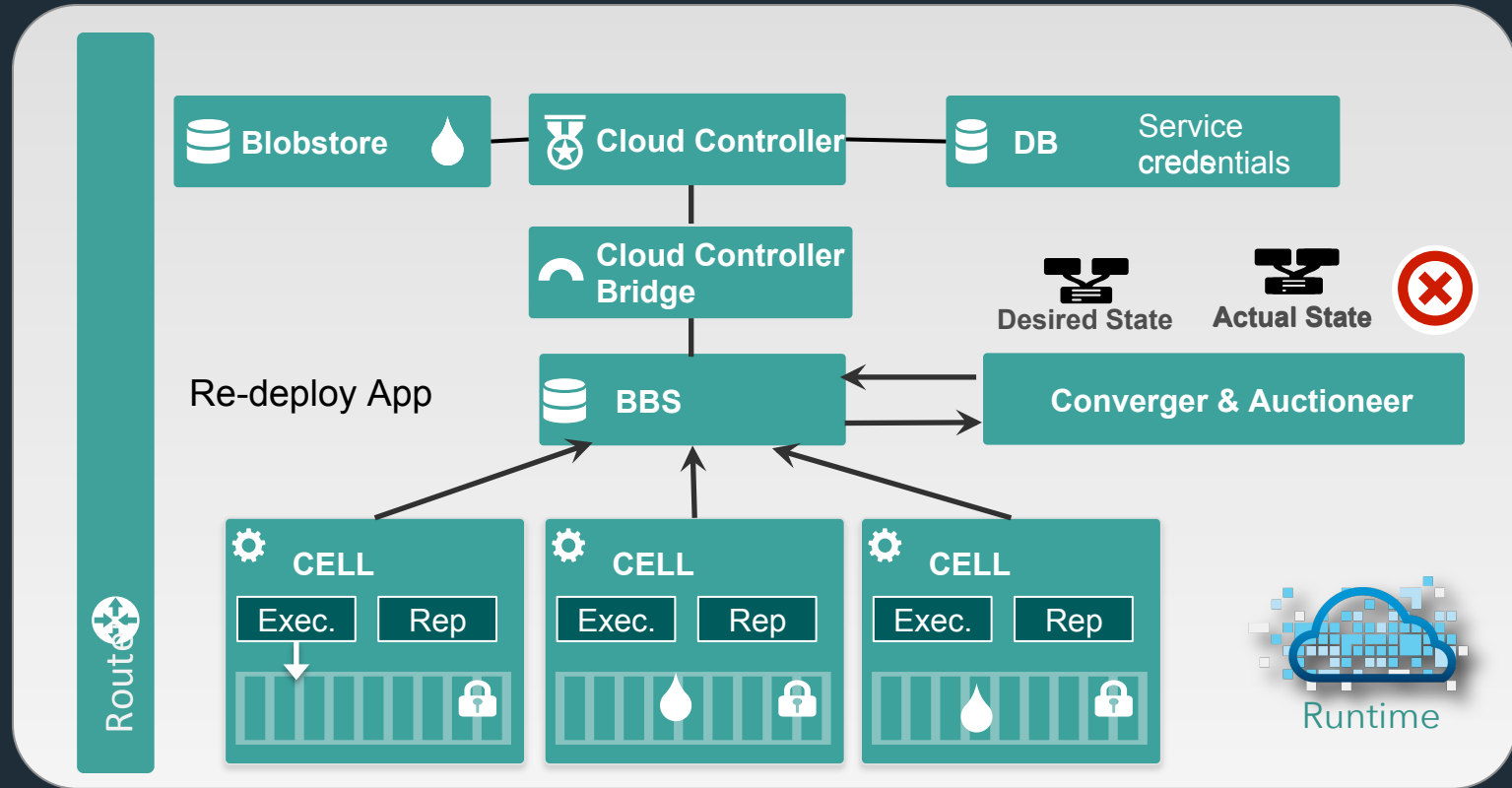
- Packages
 - Blobs
 - Source
- Jobs
- Manifest



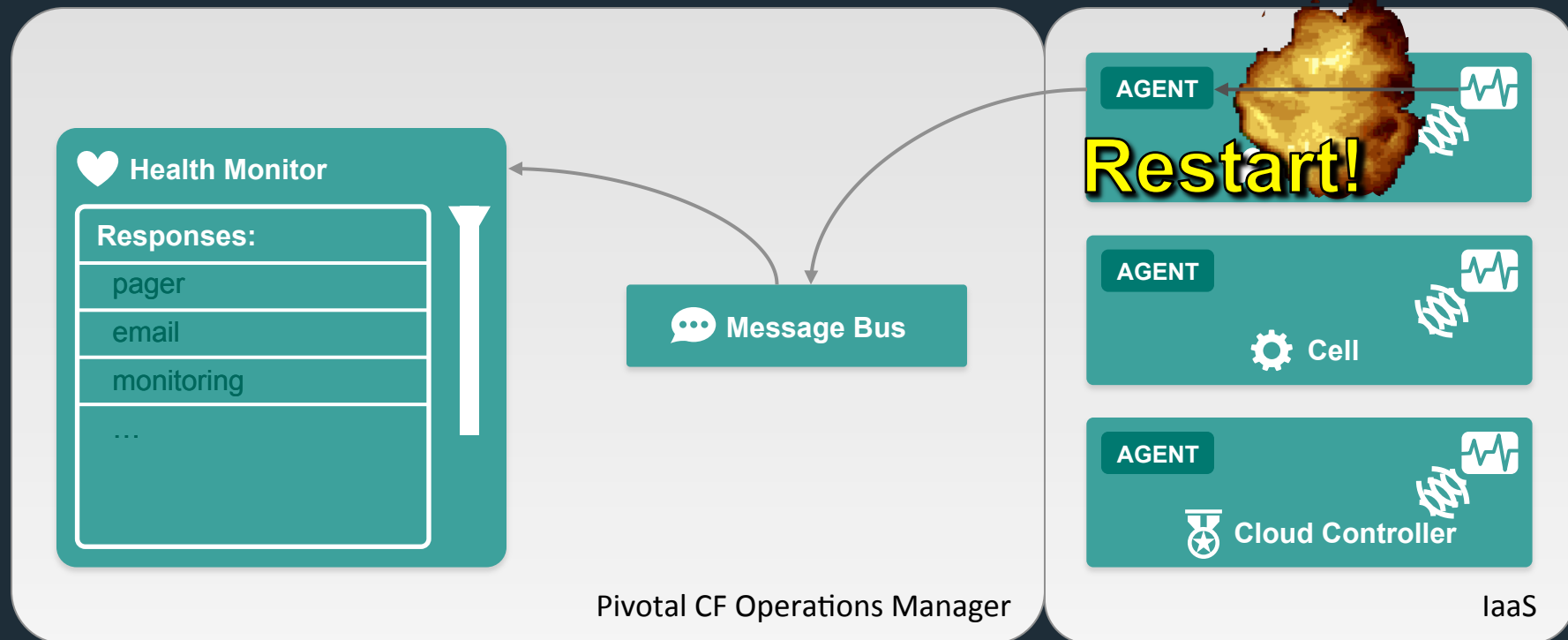
Four Levels of HA

Built In!

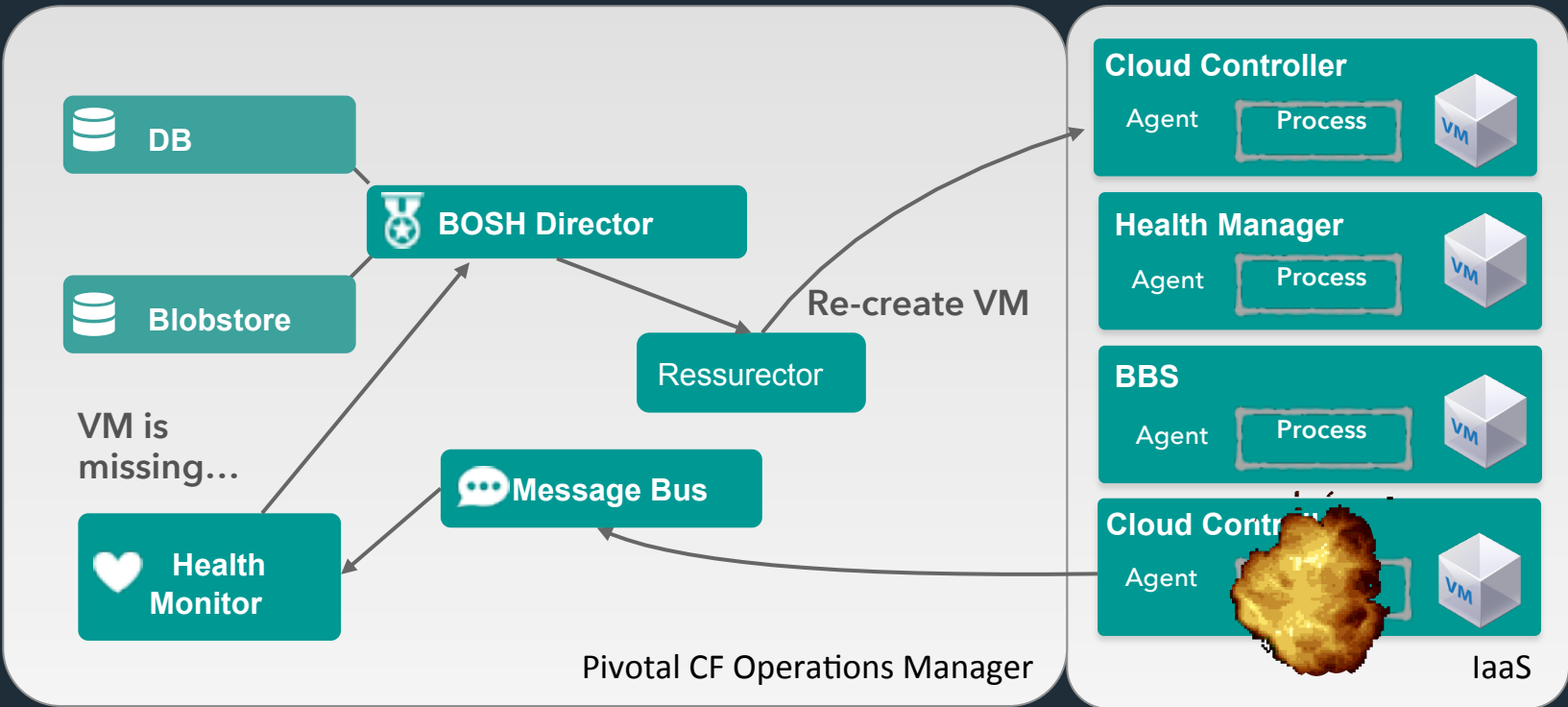
Application Instance HA



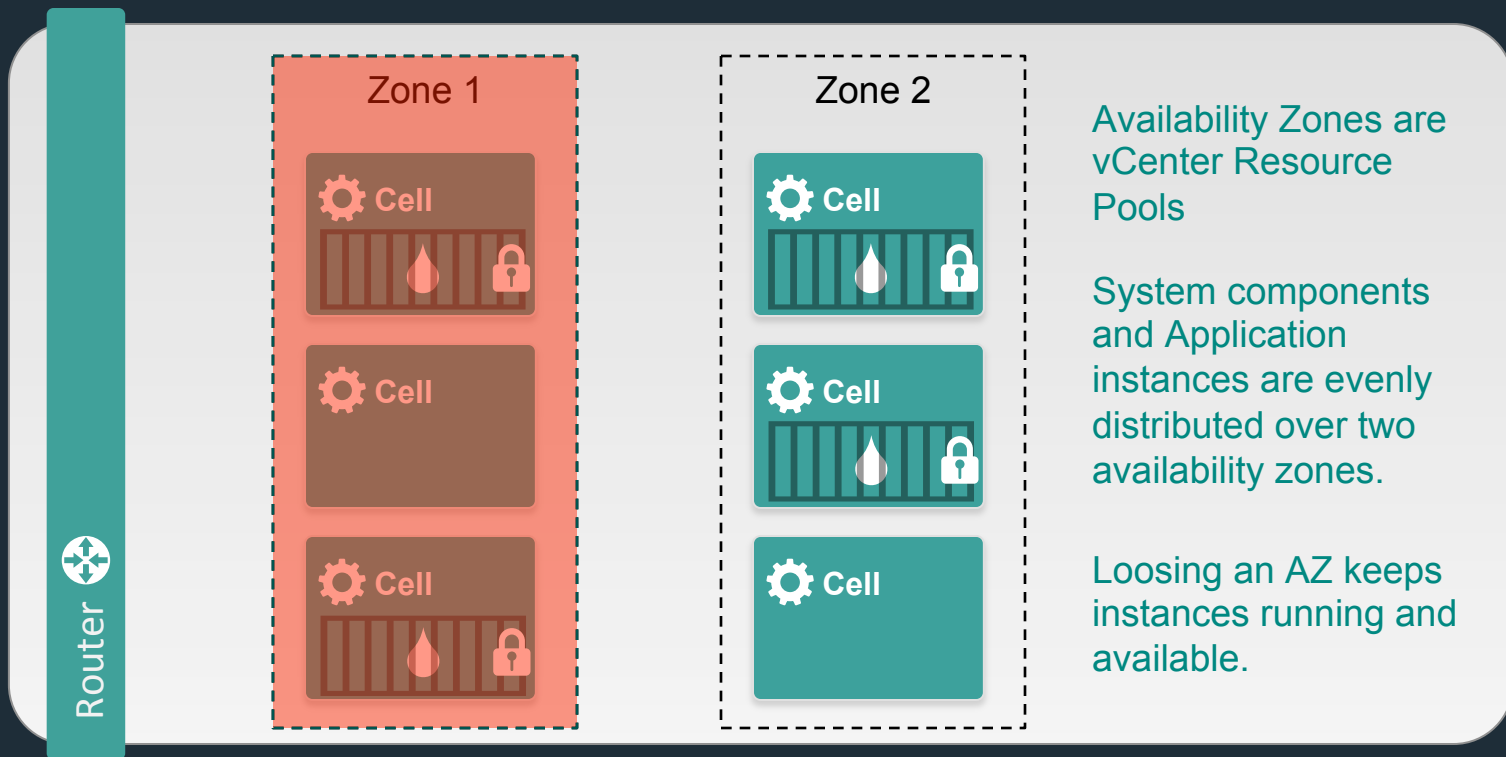
Platform Process HA



Platform Virtual Machine HA

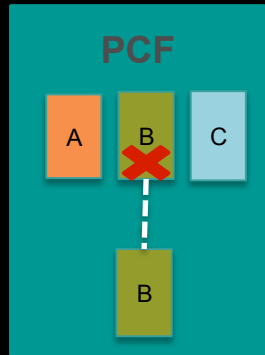


Availability Zone HA



How Pivotal CF enables four layers of HA

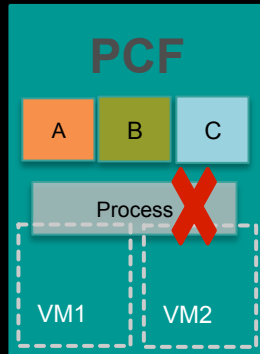
1.



If an app fails, PCF reboots app in a new container.

App Fail

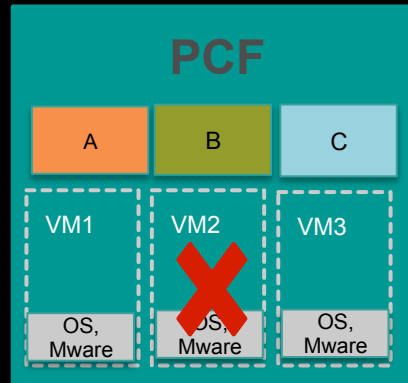
2.



If a process fails, PCF restarts the process

Process Fail

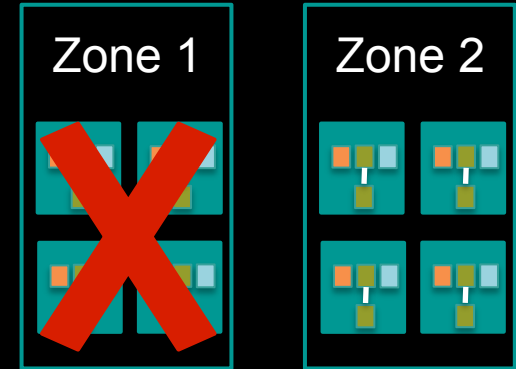
3.



If an **OS or network failure** occurs PCF kills the VM and reboots the host in a new Virtual machine.

VM Fail

4.

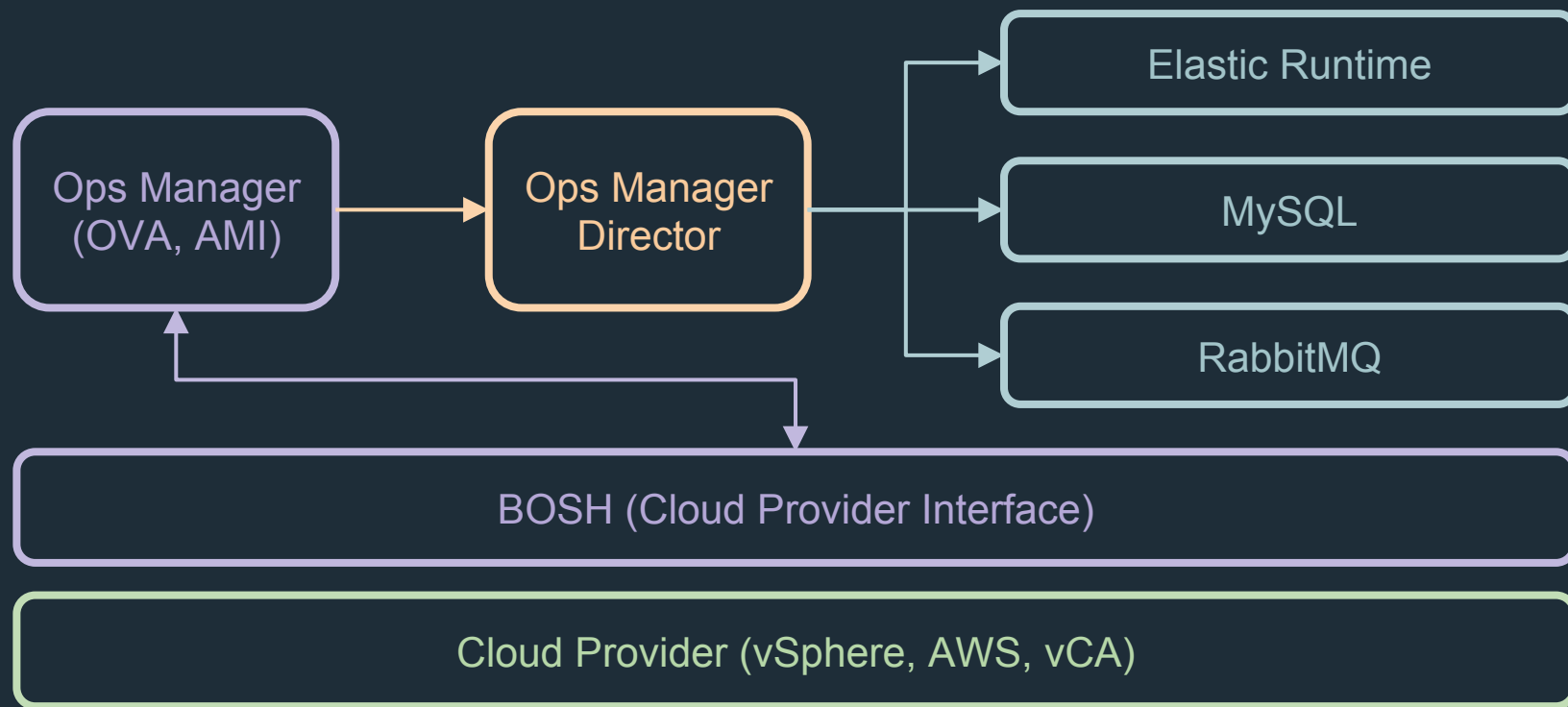


If a **datacenter rack fails**, PCF ensures applications stay running in multiple availability zones

Rack Fail

Pivotal

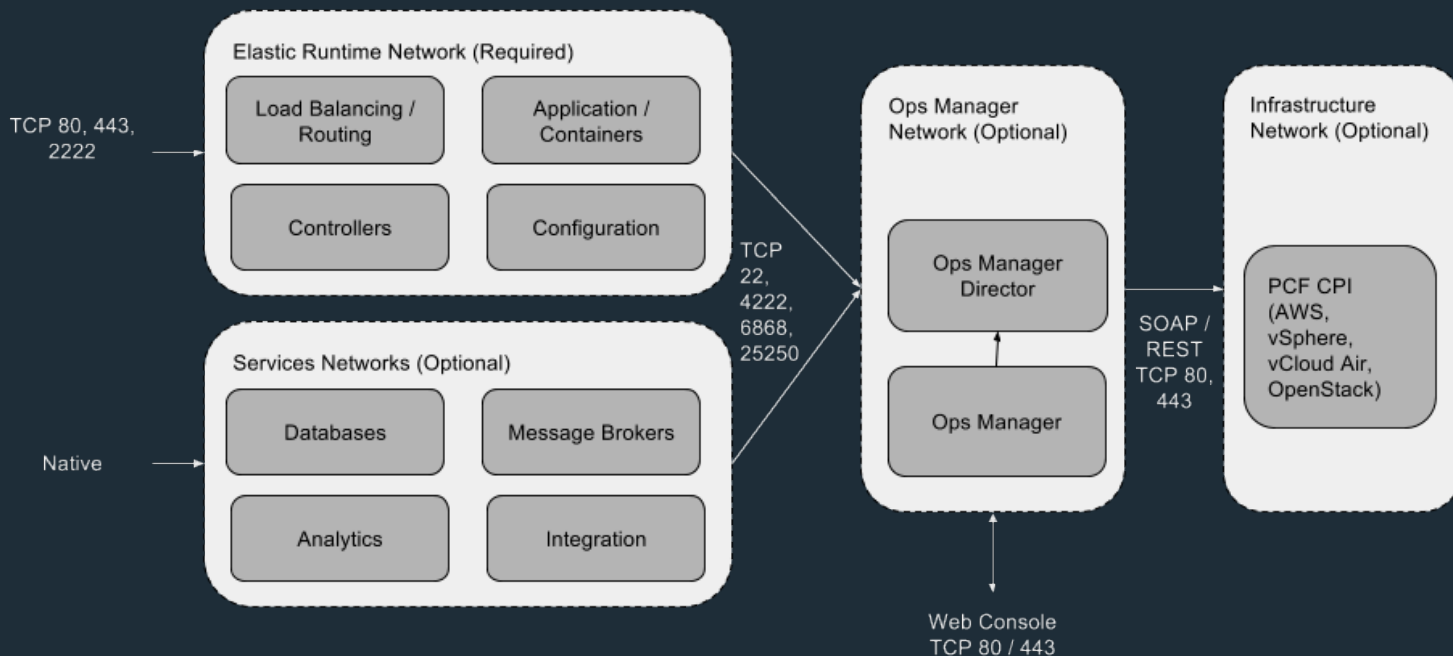
PCF Installation



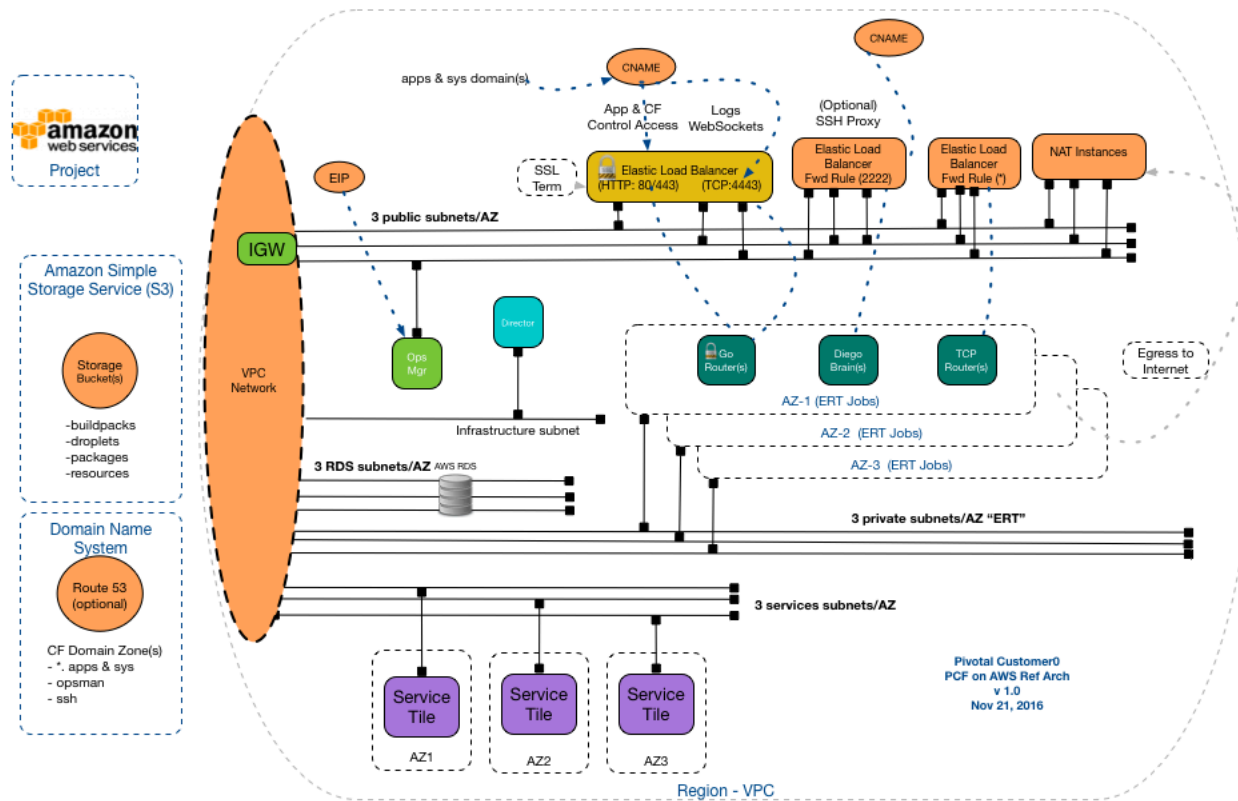
Installation & Configuration

1. Create Ops Manager Instance (AMI, OVA)
2. Configure Ops Manager Director
3. Install Ops Manager Director
4. Upload Elastic Runtime Product
5. Configure Elastic Runtime
6. Install Elastic Runtime
7. Upload, Configure, & Install Other Products

Network Topology



Detailed topologies for AWS & vSphere can be found here: <https://drive.google.com/open?id=0B4KCenwl13JOcUJjUXdsVzNxZlkF>



DEMO



Additional resources

Sizing & Capacity Planning: Shekel Tool for Sizing Environments

<https://pcfSizer.cfapps.pez.pivotal.io>

PCF on AWS Reference Architecture

http://docs.pivotal.io/pivotalcf/1-10/refarch/aws/aws_ref_arch.html

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