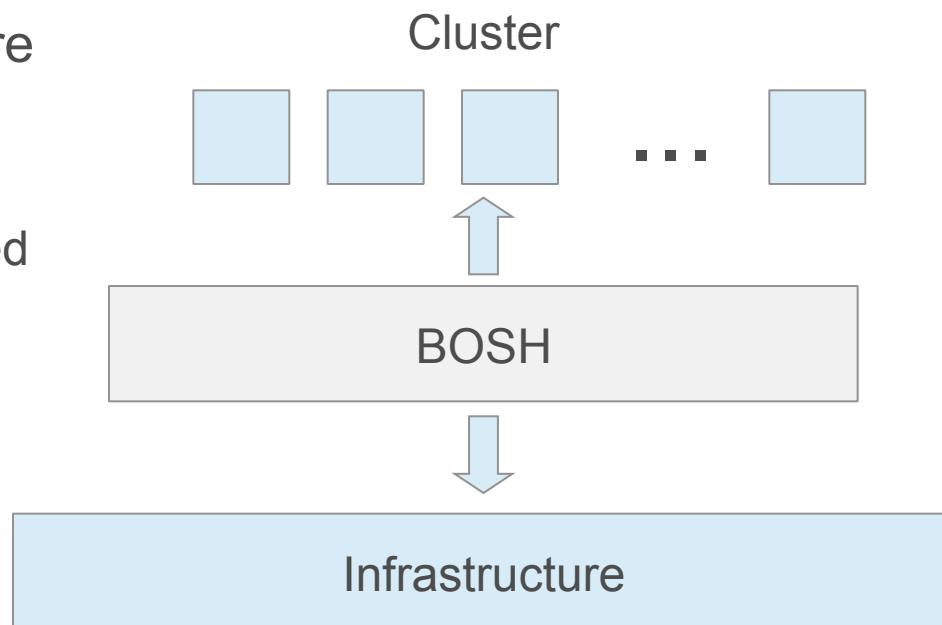


Ops Manager and BOSH Introduction

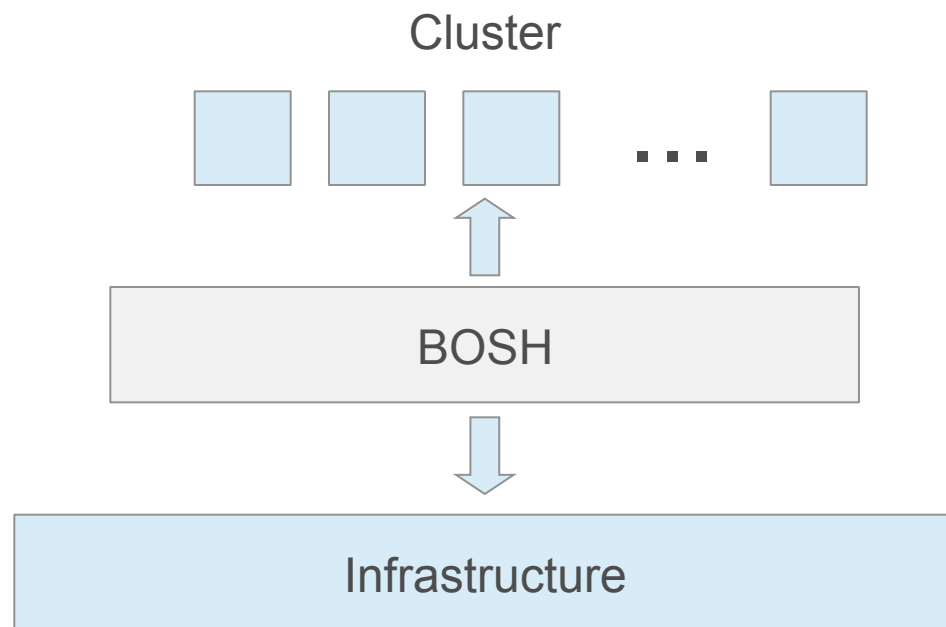
What is BOSH?

- BOSH is open source software that can deploy and manage the lifecycle of any software
 - Especially good for distributed systems and clusters
- BOSH can run on any infrastructure
 - For example, vSphere, Amazon Web Services, a Vagrant VM



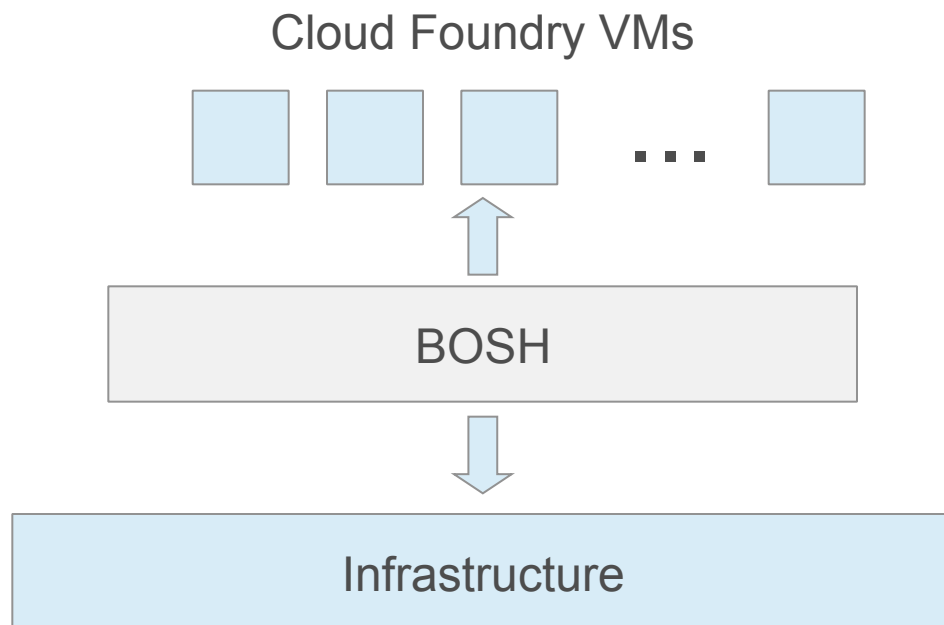
Two Perspectives of BOSH

- BOSH is middleware
 - Connects the infrastructure to the cluster
- Looking “up”, it is deploying and managing the lifecycle of a cluster
 - Create/recreate VMs, start/restart processes, enable continuous delivery
- Looking “down”, it is using and abstracting the infrastructure
 - Cluster *doesn't care* what infrastructure it is on



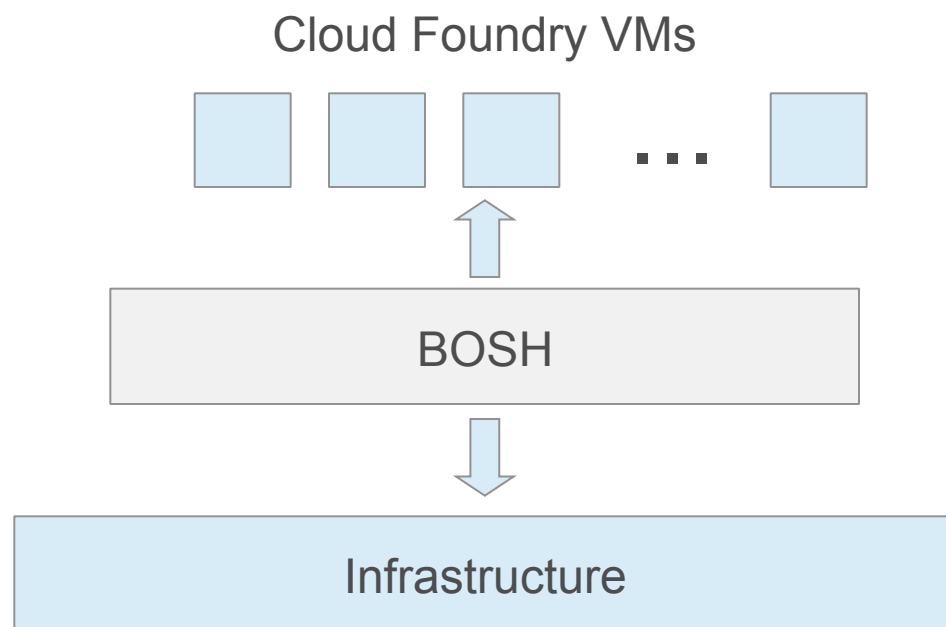
Why BOSH?

- Cloud Foundry is a distributed system that runs on many infrastructures
- BOSH was mainly designed as a *holistic* approach to deploying and managing Cloud Foundry-managed VMs
 - BOSH keeps the Cloud Foundry runtime running



BOSH Usage

- BOSH can deploy and manage any software, not just Cloud Foundry
- You *could* use other software to deploy Cloud Foundry VMs (e.g. Chef)
- But might lose functionality: high availability, continuous delivery...



Ops Manager and BOSH

- Ops Manager is a user interface on top of BOSH
- When you install or make changes in Ops Manager, BOSH-level changes are being made
 - You will see BOSH-related messages in the logs

The screenshot shows the 'PCF Ops Manager' interface. The top navigation bar includes the 'P' logo, the text 'PCF Ops Manager', and a user dropdown menu labeled 'admin'. The main content area is titled 'Installation Dashboard' and features a sidebar on the left with a list of 'Available Products':

- Ops Manager Director (No upgrades available)
- Pivotal Elastic Runtime (No upgrades available)
- Jenkins Enterprise by CloudBees for Pivotal CF (1.3.8.3)
- Pivotal Ops Metrics (No upgrades available)
- MySQL for Pivotal Cloud Foundry (No upgrades available)

An 'Import a Product' button is located at the bottom of the sidebar. The main dashboard displays four product tiles:

- Ops Manager Director** (v1.4.2.0): Includes the Amazon Web Services logo and the text 'powered by amazon web services'.
- Pivotal Elastic Runtime** (v1.4.2.0)
- Pivotal Ops Metrics** (v1.4.0.0)
- MySQL for Pivotal Cloud Foundry** (v1.5.0.0)

Each tile has a trash icon in the bottom right corner. On the right side of the dashboard, there is a 'No updates' status, an 'Apply changes' button, and a link for 'Recent Install Logs'.