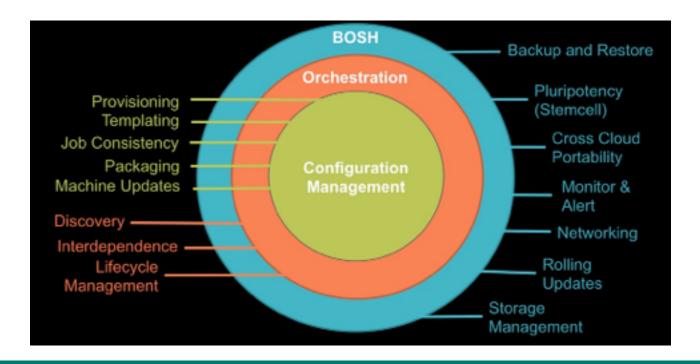
Pivota

A NEW PLATFORM FOR A NEW ERA

"BOSH is an open-source tool chain for release engineering, deployment and lifecycle management of large-scale distributed services"





Why BOSH

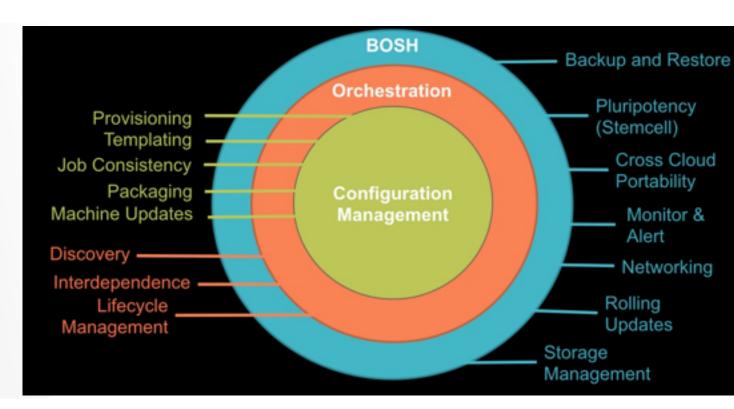
Provision services, not machines

Enables continuous delivery

Cloud-agnostic view of Platform Ops

Holistic Toolchain for "rule them all"

Eliminate bespoke automation on top of config management





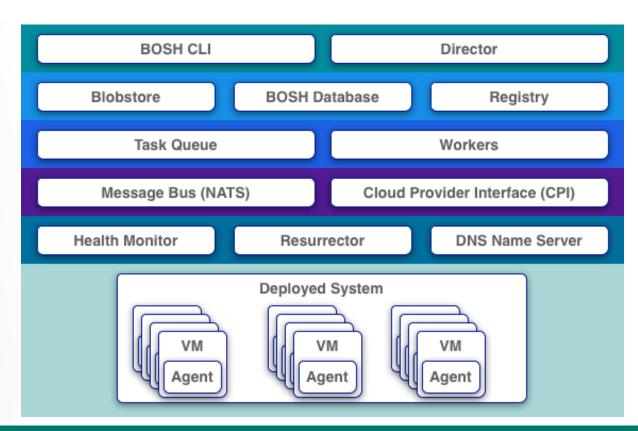
The BOSH Architecture

Very similar to CF architecture itself

Director as analogy to Cloud Controller

Different CPIs exist per laaS implementation

Workers responsible for executing tasks as dictated by Director



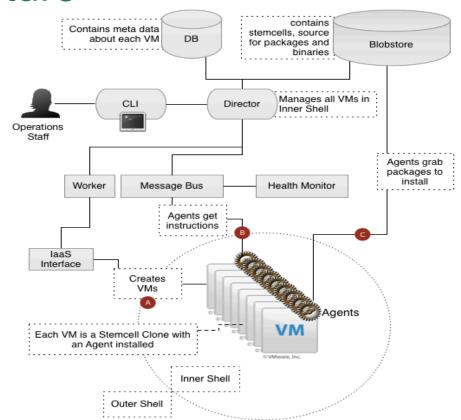
The BOSH Architecture

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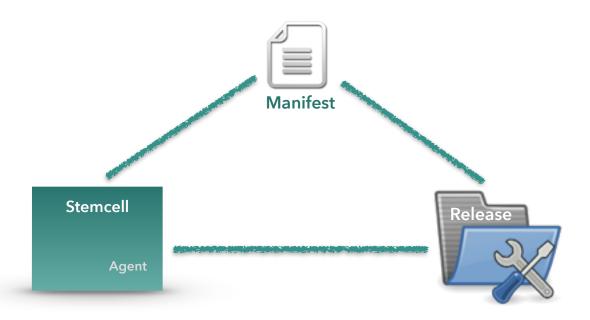
Different CPIs exist per laaS implementation

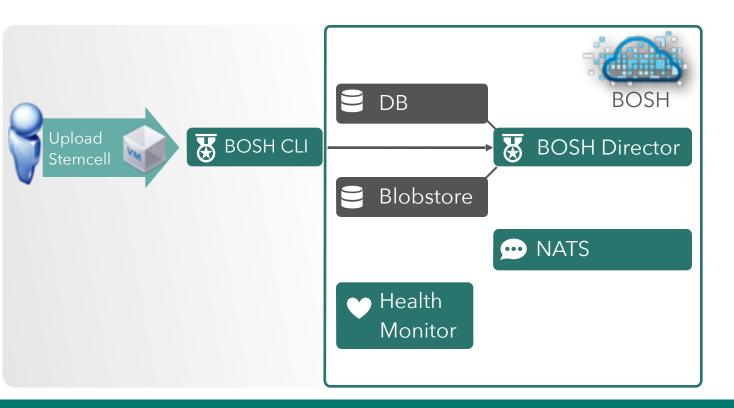
Workers responsible for executing tasks as dictated by Director

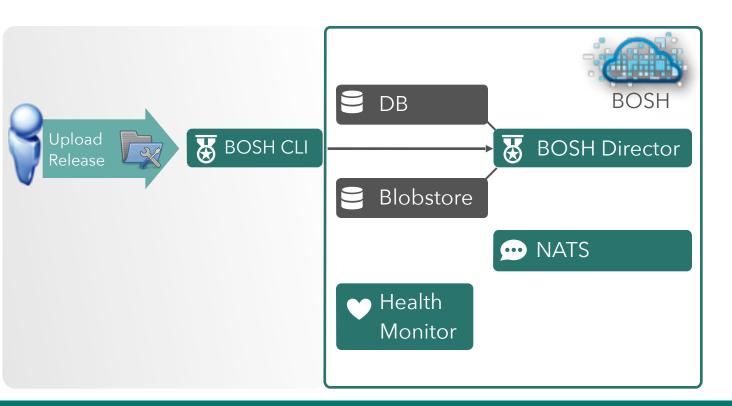


Pivotal

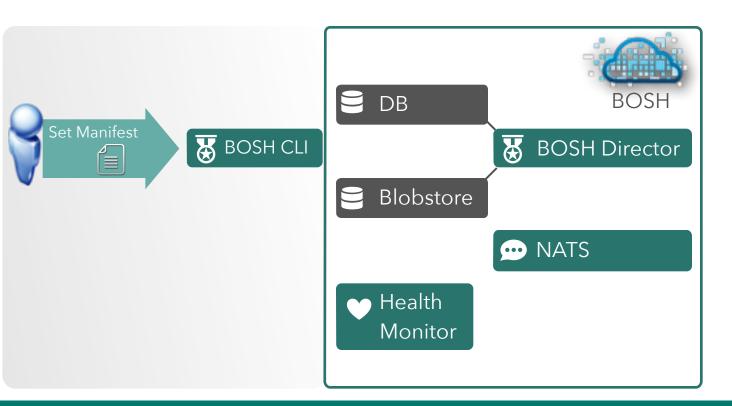
Three main components of a bosh deployment



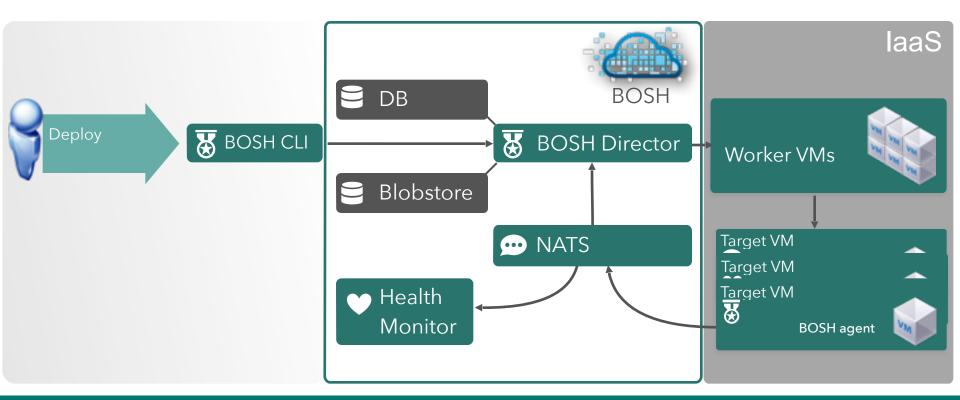












Pivotal







Pivotal

Click to install

No downtime updates

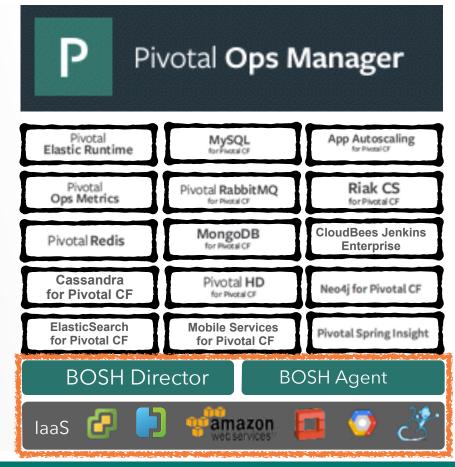
Explore install logs

Click to scale the platform

Built-in High Availability

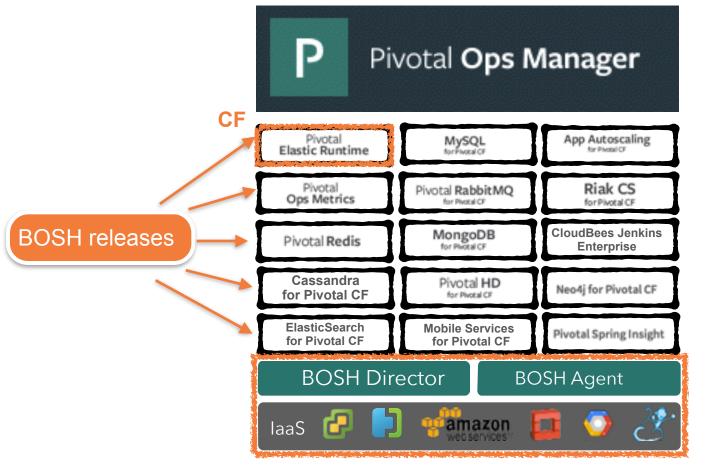
Built-in Platform Monitoring

Integrated services





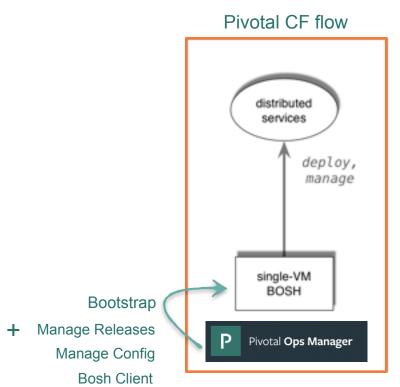
13

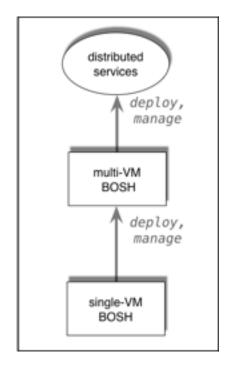




Pivotal

BOSH possible flows





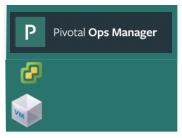
http://docs.cloudfoundry.org/bosh/workflow.html

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How does a Pivotal CF install work?

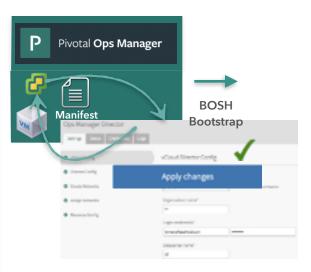


Pivotal CF flow

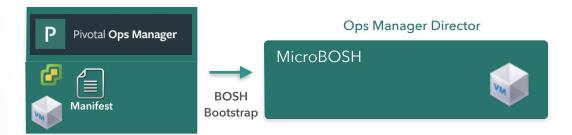




Conf. laaS tile / apply changes



Conf. laaS tile / apply changes

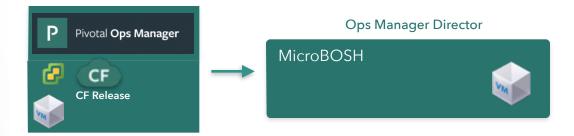


Pivotal.

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Conf. laaS tile / apply changes

Add ER tile (BOSH release)

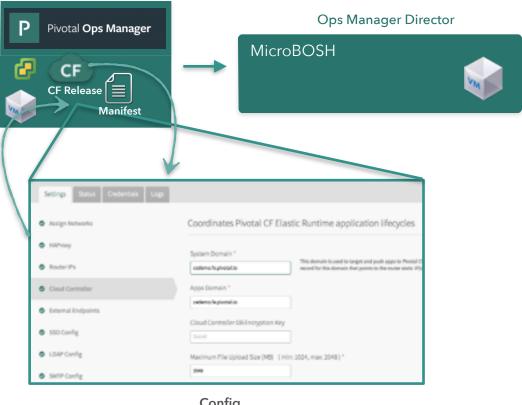


Pivotal

Deploy Ops Manager VM

Conf. laaS tile / apply changes

Add ER tile (BOSH release)



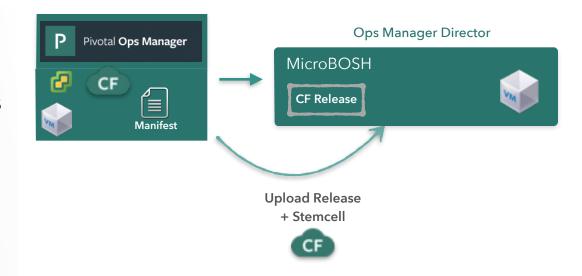
Config parameters



Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

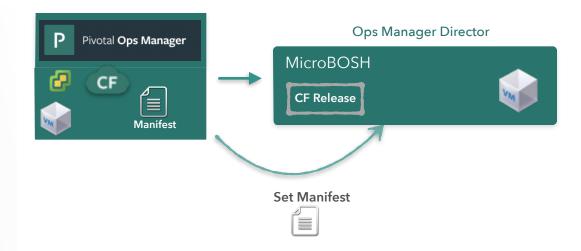




Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

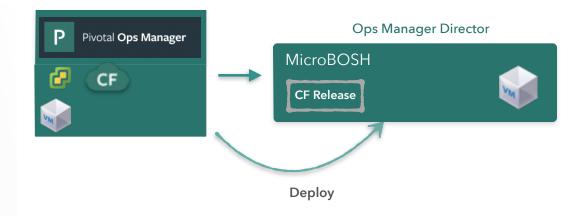




Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

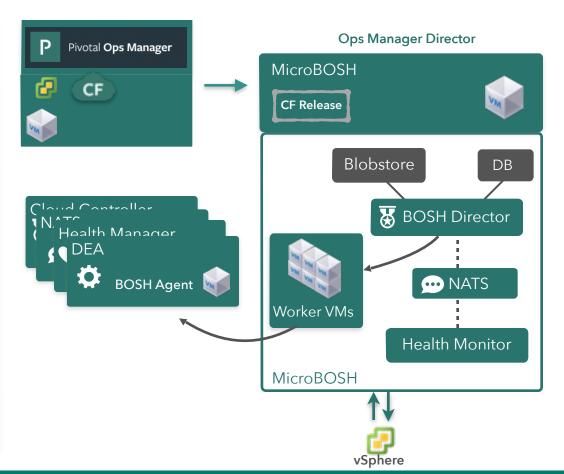




Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes



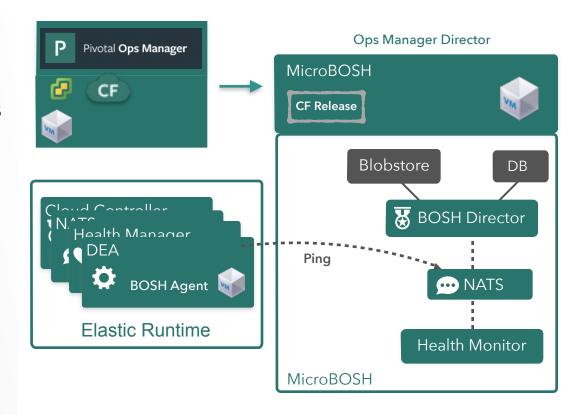


25

Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes





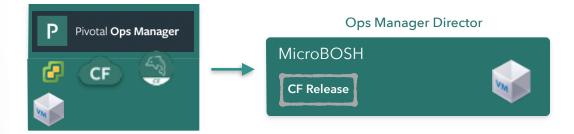
26

Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)

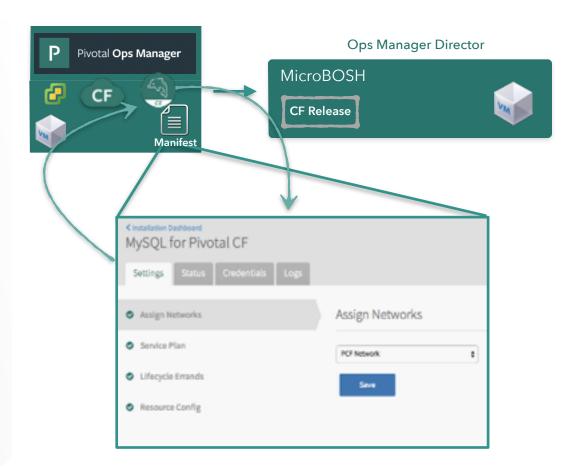


Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)





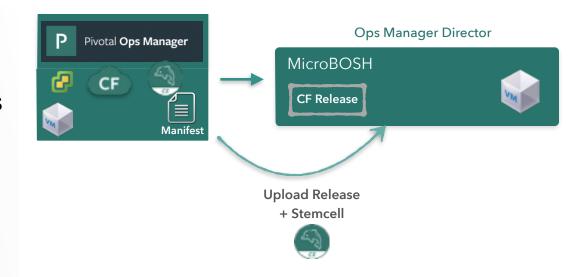
28

Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)

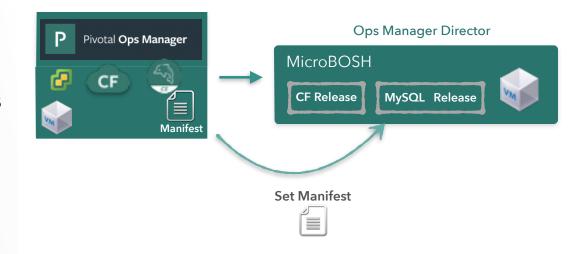


Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)



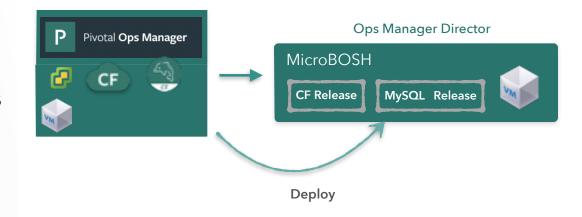
30

Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)

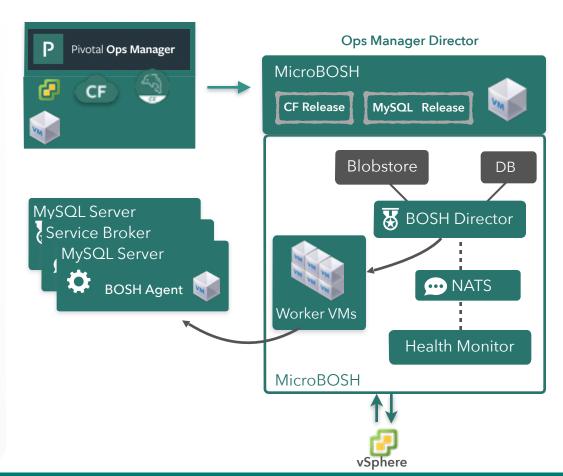


Conf. laaS tile / apply changes

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Apply Changes

(... same for other services)



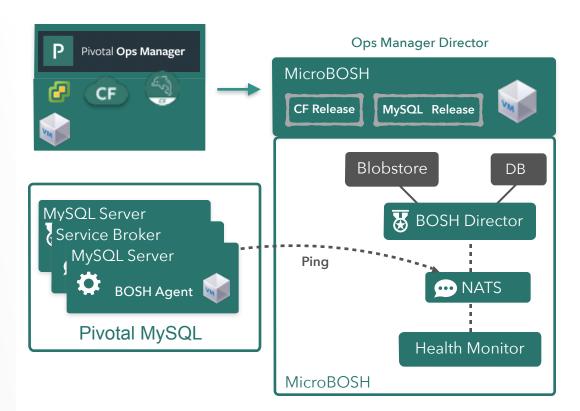


Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)





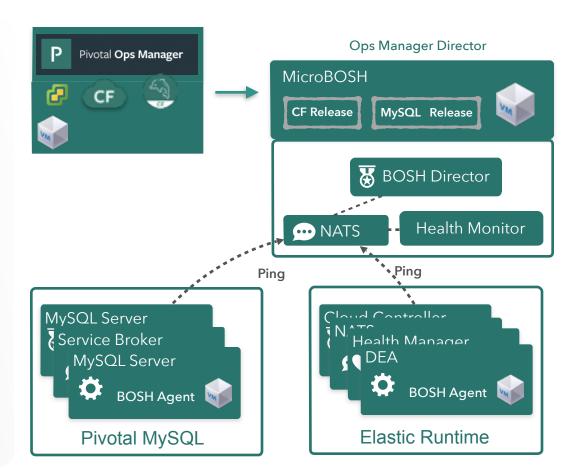
33

Conf. laaS tile / apply changes

Add ER tile (BOSH release)

Apply Changes

(... same for other services)







Pivotal Elastic Runtime No upgrades available

Pivotal RabbitMQ

No upgrades available

powered by Pivotal No upgrades available

MongoDB for Pivotal CF No upgrades available

Pivotal CF Ops Metrics No upgrades available

Riak CS for Pivotal CF No upgrades available

MySQL for Pivotal CF No upgrades available

Import a Product

Docker

0.0.0.19~

1.3.2.0 ~

Pivotal

What's inside a .pivotal file?

Ops Manager tile file

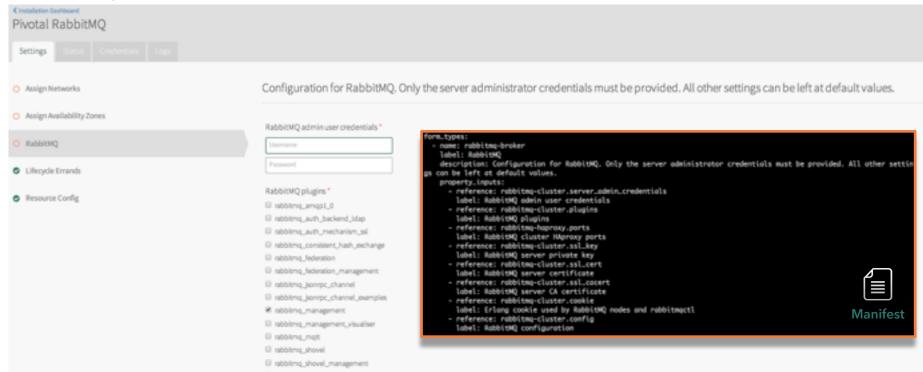




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What's inside a .pivotal file?

Ops Manager tile file



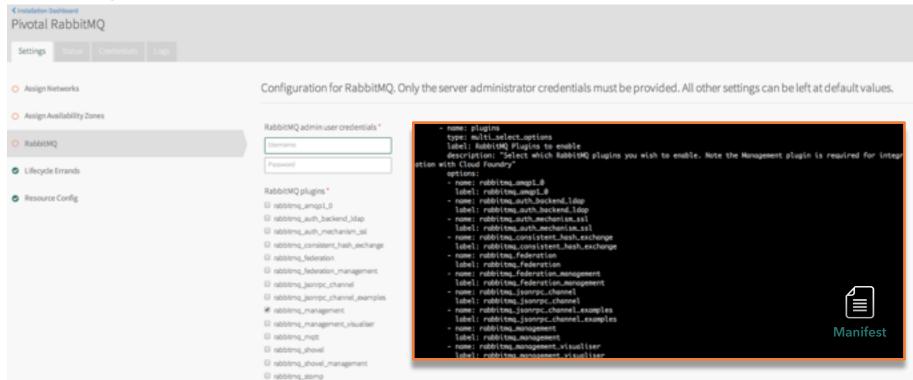


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@ rabbitmq_stomp

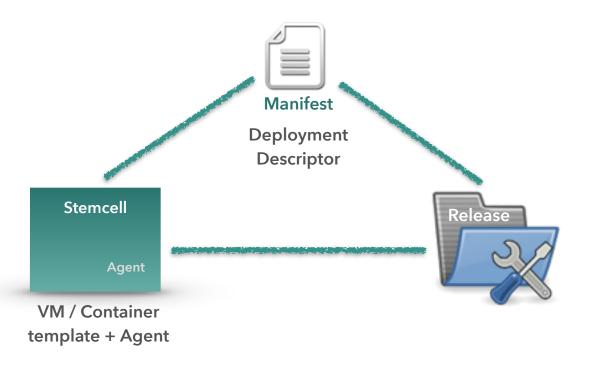
What's inside a .pivotal file?

Ops Manager tile file



Pivotal

Three main components of a bosh deployment





... so what exactly is a BOSH release?



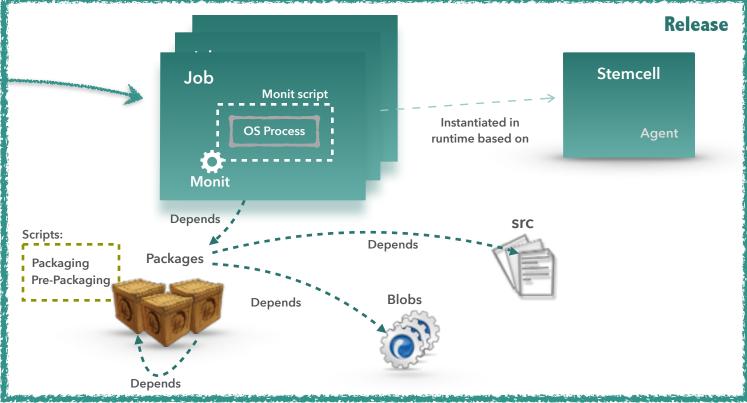
Anatomy of BOSH releases

http://docs.cloudfoundry.org/bosh/create-release.html



Example of Jobs:

- DEA (CF)
- CloudController (CF)
- Service Broker (MySQL & Rabbit)
- Locator (possible GemFire release)



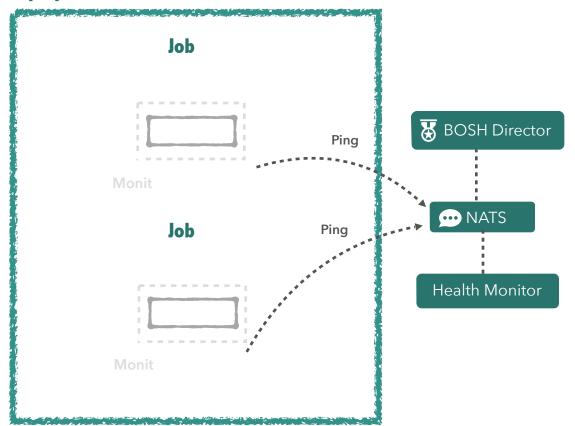
Pivotal

Job Creation





Deployment



Pivotal.

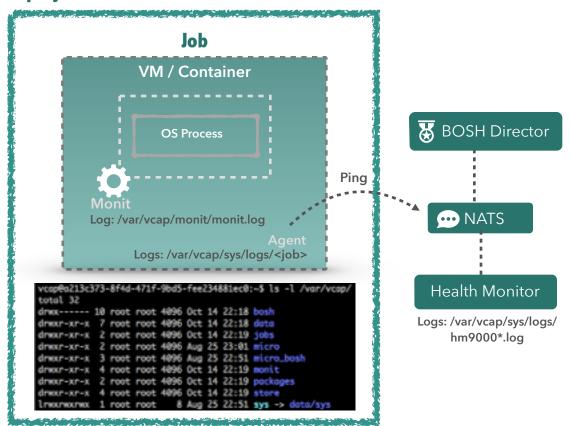
Logs

Stemcell Agent



Compiled Packages

Deployment



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