

The background of the slide features a dark, semi-transparent image of the Golden Gate Bridge in San Francisco, viewed from a low angle looking towards the towers. The bridge's cables and towers are visible against a hazy sky.

Pivotal

PCF Operations Workshop - PCF Installation

<Presenter>

<Title>

PCF Installation

Ops Manager Configuration/
Installation

https://54.174.11.166/setup/saml

Apps Photon-Drive Investment Manager Strategic Product On EC2 Management Co Pivotal Software, Inc Amazon.com: The C Inside Pivotal

Pivotal

Use an Identity Provider

IDP Metadata (Full URL or XML)

Bosh IDP Metadata (Full URL or XML) - will use same metadata as above if left blank.

Decryption passphrase

Decryption passphrase confirmation

Http proxy
Https proxy
No proxy

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API Docs | [End User License Agreement](#)

PCF Ops Manager

admin ▾

Available Products

- Ops Manager Director
No upgrades available
- Pivotal Elastic Runtime
No upgrades available
- Spring Cloud Services
No upgrades available
- RabbitMQ
No upgrades available
- Redis
No upgrades available
- Log Search
1.0.0 ▾
- Metrics
1.0.8 ▾
- Single Sign-On
1.1.1 ▾
- MySQL for Pivotal Cloud Foundry
No upgrades available

Import a Product

Download PCF compatible products at
[Pivotal Network](#)

Delete unused products

The screenshot shows the PCF Ops Manager interface. On the left, a sidebar lists various products with their versions and upgrade status. The 'Ops Manager Director for VMware vSphere' product is highlighted with a red box. The main area displays a grid of product cards. Each card includes the product name, version, and a small icon. A gear icon in the top right corner indicates no updates. A prominent blue button labeled 'Apply changes' is located in the top right corner of the main content area.

Product	Version	Status
Ops Manager Director for VMware vSphere	v1.7.8.0	No upgrades available
Pivotal Elastic Runtime	v1.7.9-build.1	No upgrades available
Spring Cloud Services	v1.6.2	No upgrades available
RabbitMQ	v1.5.15	No upgrades available
Redis	v1.0.10	No upgrades available
Log Search	v1.7.9	No upgrades available
Metrics	v1.1.1	No upgrades available
Single Sign-On	v1.1.1	No upgrades available
MySQL for Pivotal Cloud Foundry	v1.1.1	No upgrades available

Ops Manager Director

[Settings](#) [Status](#) [Credentials](#) vCenter Config Director Config Create Availability Zones Create Networks Assign AZs and Networks Security Resource Config

vCenter Config

vCenter Host*

The hostname of the vCenter that manages ESXi / vSphere

vCenter Username*

vCenter Password*

Change

Datacenter Name*

Virtual Disk Type*

 thin

Ephemeral Datastore Names (comma delimited)*

NOTE: Removing an Ephemeral Datastore after an initial deploy can result in a system outage and/or data loss.

Persistent Datastore Names (comma delimited)*

NOTE: Removing a Persistent Datastore after an initial deploy can result in a system outage and/or data loss.

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Ops Manager Director

[Settings](#) [Status](#) [Credentials](#) vCenter Config Director Config Create Availability Zones Create Networks Assign AZs and Networks Security Resource Config

Director Config

NTP Servers (comma delimited)*

One or more NTP server addresses for consistent and valid time stamps used in syslog, etc.

Metrics IP Address

 Enable VM Resurrector Plugin Recreate all VMs

This will force BOSH to recreate all VMs on the next deploy. Persistent disk will be preserved.

 HM Pager Duty Plugin

Service Key*

HTTP Proxy

 HM Email Plugin

Host*

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Ops Manager Director

[Settings](#) [Status](#) [Credentials](#) vCenter Config Director Config Create Availability Zones Create Networks Assign AZs and Networks Security Resource Config

Create Availability Zones

Availability Zones

Clusters and resource pools to which you will deploy Pivotal products

[Add](#)

▼ AZ1

Name*

AZ1

Cluster*

Cluster

Resource Pool

[Save](#)

PCF Ops Manager

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Installation Dashboard

Ops Manager Director

Settings Status Credentials

vCenter Config

Director Config

Create Availability Zones

Create Networks

Assign AZs and Networks

Security

Resource Config

Create Networks

Warning: Pivotal recommends keeping the IP settings throughout the life of your installation. Ops Manager may prevent you from changing them in the future. Contact Pivotal support for help completing such a change.

Verification Settings

Enable ICMP checks

Networks

Add Network

PivotalCFNetwork

Name* PivotalCFNetwork A unique name for this network

Subnets

Add Subnet

vSphere Network Name* [REDACTED]

CIDR* [REDACTED]

Reserved IP Ranges [REDACTED]

DNS* [REDACTED]

Gateway* [REDACTED]

Availability Zones* AZ1

Save

This screenshot shows the 'Create Networks' step in the PCF Ops Manager Installation Dashboard. The sidebar on the left lists several configuration steps: vCenter Config, Director Config, Create Availability Zones, Create Networks (which is selected and highlighted in grey), Assign AZs and Networks, Security, and Resource Config. The main content area is titled 'Create Networks' and contains a warning about keeping IP settings consistent. It includes sections for 'Verification Settings' (with an 'Enable ICMP checks' checkbox), 'Networks' (with an 'Add Network' button), and a detailed 'PivotalCFNetwork' configuration. The 'PivotalCFNetwork' section requires a 'Name' (set to 'PivotalCFNetwork'), has a note about it being a unique name, and includes fields for 'vSphere Network Name', 'CIDR', 'Reserved IP Ranges', 'DNS', and 'Gateway'. At the bottom, there's a note about 'Availability Zones' and a 'Save' button.

 PCF Ops Manager admin ▾

[Installation Dashboard](#)

Ops Manager Director

Settings Status Credentials

- vCenter Config
- Director Config
- Create Availability Zones
- Create Networks
- Assign AZs and Networks
- Security
- Resource Config

Assign AZs and Networks

The Ops Manager Director is a single instance.

Choose the availability zone in which to place that instance. It is highly recommended that you backup this VM on a regular basis to preserve settings.

Singleton Availability Zone

AZ1

Network

PivotalCFNetwork

Save

 PCF Ops Manager admin ▾

[◀ Installation Dashboard](#)

Ops Manager Director

Settings Status Credentials

- vCenter Config
- Director Config
- Create Availability Zones
- Create Networks
- Assign AZs and Networks
- Security
- Resource Config

Security

Trusted Certificates

These certificates enable BOSH-deployed components to trust a custom root certificate.

Generate VM passwords or use single password for all VMs

Generate passwords
 Use default BOSH password

Save

PCF Ops Manager

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Installation Dashboard

Ops Manager Director

Settings Status Credentials

vCenter Config

Director Config

Create Availability Zones

Create Networks

Assign AZs and Networks

Security

Resource Config

JOB: Ops Manager Director

INSTANCES: Automatic: 1

PERSISTENT DISK TYPE: Automatic: 50 GB

VM TYPE: Automatic: medium.disk (cpu: 2, ram: 4 GB)

Save

The screenshot shows the 'Installation Dashboard' for the 'Ops Manager Director' job. On the left, there's a sidebar with several configuration items, each preceded by a checked checkbox. The items are: 'vCenter Config', 'Director Config', 'Create Availability Zones', 'Create Networks', 'Assign AZs and Networks', 'Security', and 'Resource Config'. The 'Resource Config' item is highlighted with a grey background. The main area is titled 'Resource Config' and contains four dropdown menus under the heading 'OPS MANAGER DIRECTOR'. The first dropdown is labeled 'JOB' and has 'Ops Manager Director' selected. The second dropdown is labeled 'INSTANCES' and has 'Automatic: 1' selected. The third dropdown is labeled 'PERSISTENT DISK TYPE' and has 'Automatic: 50 GB' selected. The fourth dropdown is labeled 'VM TYPE' and has 'Automatic: medium.disk (cpu: 2, ram: 4 GB)' selected. A large blue 'Save' button is centered below these dropdowns.

PCF Installation

Elastic Runtime Configuration/
Installation

PCF Ops Manager

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Available Products

Ops Manager Director
No upgrades available

Pivotal Elastic Runtime
No upgrades available

Spring Cloud Services
No upgrades available

RabbitMQ
No upgrades available

Redis
No upgrades available

Log Search
1.0.0 ▾

Metrics
1.0.8 ▾

Single Sign-On
1.1.1 ▾

MySQL for Pivotal Cloud Foundry
No upgrades available

Import a Product

Download PCF compatible products at Pivotal Network

Delete unused products

Installation Dashboard

Ops Manager Director for VMware vSphere® v1.7.8.0

Pivotal Elastic Runtime v1.7.9-build.1

RabbitMQ v1.6.2

Redis v1.5.15

Spring Cloud Services v1.0.10

MySQL for Pivotal Cloud Foundry v1.7.9

No updates

Apply changes

The screenshot shows the 'Installation Dashboard' of the PCF Ops Manager interface. On the left, a sidebar lists available products: Ops Manager Director, Pivotal Elastic Runtime, Spring Cloud Services, RabbitMQ, Redis, Log Search (version 1.0.0), Metrics (version 1.0.8), Single Sign-On (version 1.1.1), and MySQL for Pivotal Cloud Foundry. Below these is a section for 'Import a Product' with a link to download PCF compatible products from Pivotal Network. On the right, a grid displays seven software components with their versions: Ops Manager Director for VMware vSphere® (v1.7.8.0), Pivotal Elastic Runtime (v1.7.9-build.1), RabbitMQ (v1.6.2), Redis (v1.5.15), Spring Cloud Services (v1.0.10), and MySQL for Pivotal Cloud Foundry (v1.7.9). A blue button labeled 'Apply changes' is visible in the top right corner.

PCF Ops Manager

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Available Products

- Ops Manager Director
No upgrades available
- Pivotal Elastic Runtime
No upgrades available
- Spring Cloud Services
No upgrades available
- RabbitMQ
No upgrades available
- Redis
No upgrades available
- Log Search
1.0.0 ▾
- Metrics
1.0.8 ▾
- Single Sign-On
1.1.1 ▾
- MySQL for Pivotal Cloud Foundry
No upgrades available

Import a Product

Download PCF compatible products at
[Pivotal Network](#)

Delete unused products

Installation Dashboard

Ops Manager Director for
vmware vSphere®
v1.7.8.0

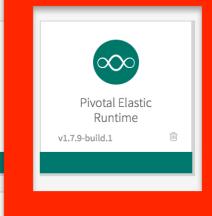
Pivotal Elastic Runtime
v1.7.9-build.1

RabbitMQ
v1.6.2

Redis
v1.5.15

No updates

Apply changes



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[◀ Installation Dashboard](#)

Pivotal Elastic Runtime

Settings Status Credentials Logs

Assign AZs and Networks

AZ and Network Assignments

Domains

Networking

Application Containers

Application Developer Controls

Application Security Groups

Authentication and Enterprise SSO

Databases

Internal MySQL

File Storage

System Logging

Custom Branding

Apps Manager

Place singleton jobs in

AZ1

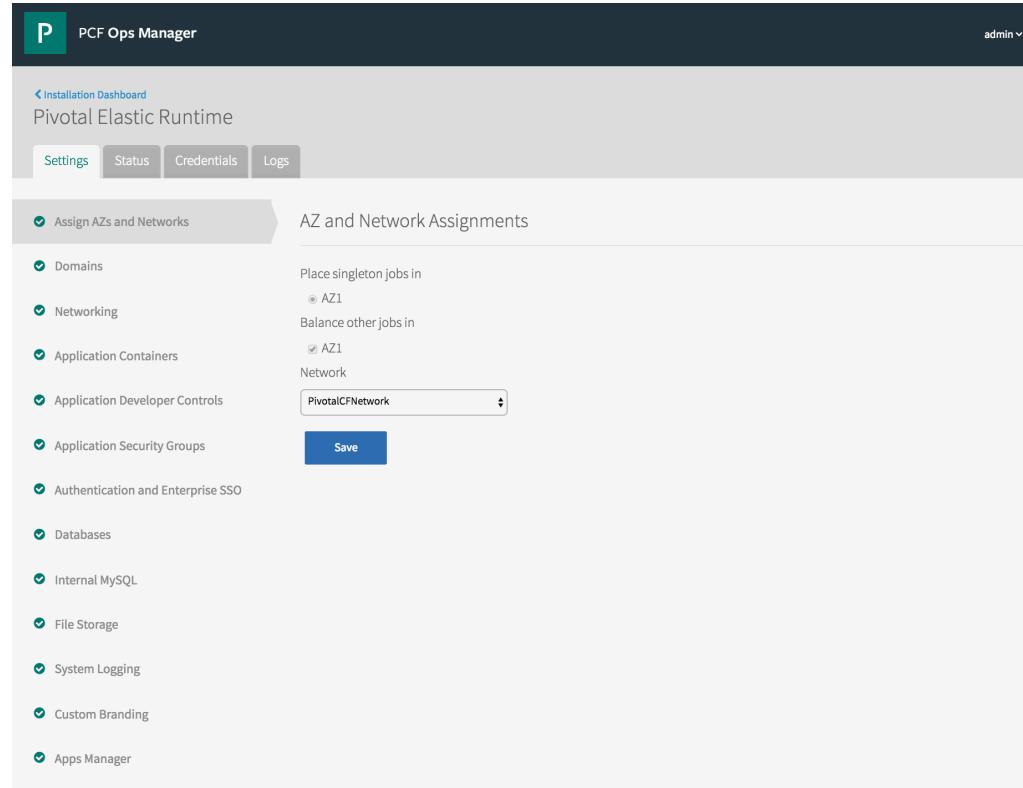
Balance other jobs in

AZ1

Network

PivotalICFNetwork

Save



 PCF Ops Manager admin ▾

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Pivotal Elastic Runtime

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Assign AZs and Networks

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Apps Manager

Elastic Runtime hosts applications at subdomains under its apps domain and assigns system components to subdomains under its system domain. You need to configure a wildcard DNS for both the apps domain and system domain. The two domains can be the same, although this is not recommended.

System Domain *

[REDACTED]

This domain is for system-level PCF components, such as Apps Manager, service brokers, etc. You must set up a wildcard DNS record for this domain that points to your entry point load balancer or HAProxy.

Apps Domain *

[REDACTED]

PCF Ops Manager

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Pivotal Elastic Runtime

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Assign AZs and Networks
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 System Logging
 Custom Branding
 Apps Manager
 Email Notifications
 Restore CCDB Encryption Key

Configure security and routing services for your platform. It is usually preferable to use your own load balancer instead of an HAProxy instance as your point-of-entry to the platform.

Router IPs
[]

If you are not using HAProxy, enter static IP address(es) for the Router(s), which must be within the subnet CIDR block that you defined in the Ops Manager network configuration. If you have a load balancer, configure it to point to these IPs. If deploying PCF to AWS with an ELB, do not enter IP addresses here. Instead, add the name of your ELB in the Resource Config section, in the ELB Name column for Router.

HAProxy IPs
[]

Configure the point-of-entry to this environment*

Select this option if you have an external load balancer, and it can forward encrypted traffic (SSL, HTTPS, etc.) to the Elastic Runtime Router(s). You may also select this option for a non-production environment where load balancing is not required, by configuring a single Router with TLS enabled as your point-of-entry to the Elastic Runtime platform.

Select this option if you have an external load balancer, but it will not forward any encrypted traffic to the Elastic Runtime Router(s). You may also select this option for a non-production environment where load balancing is not required, by configuring a single Router with TLS disabled as your point-of-entry to the Elastic Runtime platform.

Select this option if you want to use HAProxy as your first point-of-entry instead of your own load balancer. Note that HAProxy does not provide IP failover, so it is not a robust load balancer.

SSL Certificate and Private Key *
[]
Change

Email Notifications

Restore CCDB Encryption Key

Smoke Tests

Experimental Features

Disable HTTP traffic to HAProxy

Errands

Resource Config

Stemcell

Disable SSL certificate verification for this environment

Disable insecure cookies on the Router

Choose whether to enable route services. Route services enable you to proxy requests to your app over TLS to arbitrary URLs before hitting your app.*

Enable route services

Disable route services

Loggregator Port

Applications Subnet (Only change this if you need to avoid address collision with a third-party service on the same subnet.) *

Applications Network Maximum Transmission Unit (MTU) (in bytes) *

Router Timeout to Backends (in seconds) (min: 1) *

 PCF Ops Manager

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Pivotal Elastic Runtime

Settings Status Credentials Logs

Assign AZs and Networks

Enable microservice frameworks, private Docker registries, and other services that support your applications at a container level.

Domains

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Application Developer Controls

Application Security Groups

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Restore CCDB Encryption Key

Enable Custom Buildpacks

Allow SSH access to app containers

Private Docker Insecure Registry Whitelist

If you use private Docker image registries that are secured with self-signed certificates, enter them here as a comma-delimited list. List each registry as either an IP:Port tuple or a Hostname:Port tuple.

Docker Images Disk-Cleanup Scheduling on Cell VMs*

Never clean up Cell disk-space

Routinely clean up Cell disk-space

Clean up disk-space once threshold is reached

Save

 PCF Ops Manager

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Pivotal Elastic Runtime

Settings Status Credentials Logs

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Configure restrictions and default settings for applications pushed to Elastic Runtime.

Maximum File Upload Size (MB) (min: 1024, max: 2048) *

 Maximum size of an application upload

Default App Memory (MB) (min: 64, max: 2048) *

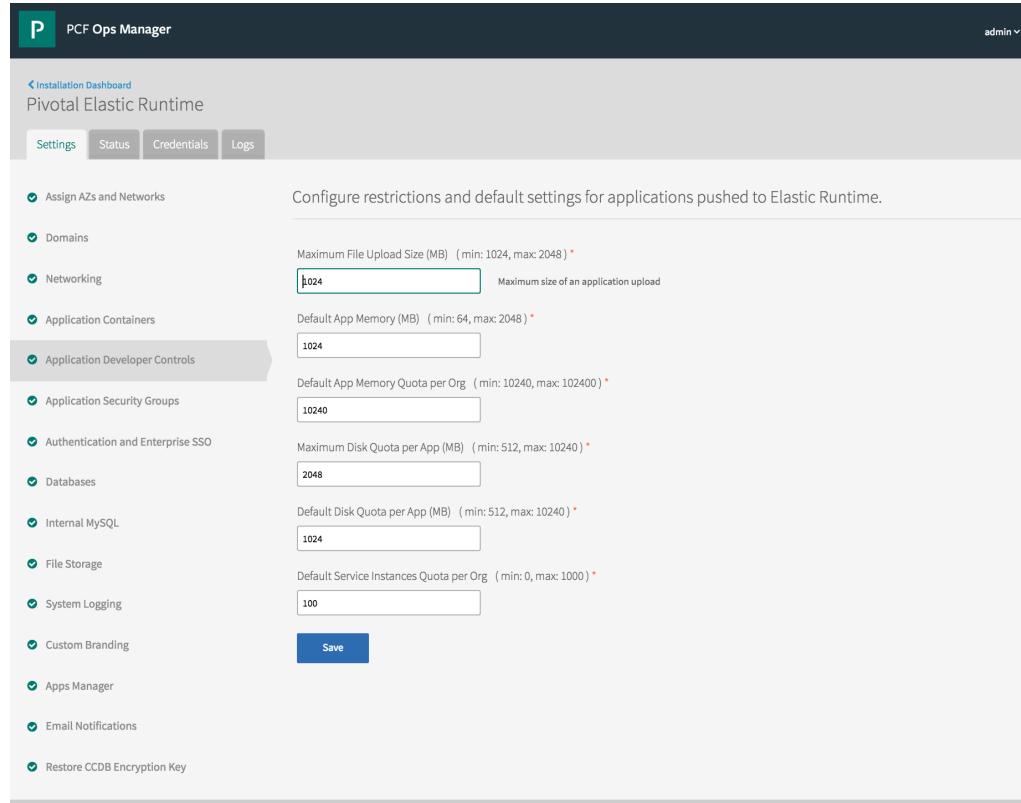
Default App Memory Quota per Org (min: 10240, max: 102400) *

Maximum Disk Quota per App (MB) (min: 512, max: 10240) *

Default Disk Quota per App (MB) (min: 512, max: 10240) *

Default Service Instances Quota per Org (min: 0, max: 1000) *

Save



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Pivotal Elastic Runtime

Settings Status Credentials Logs

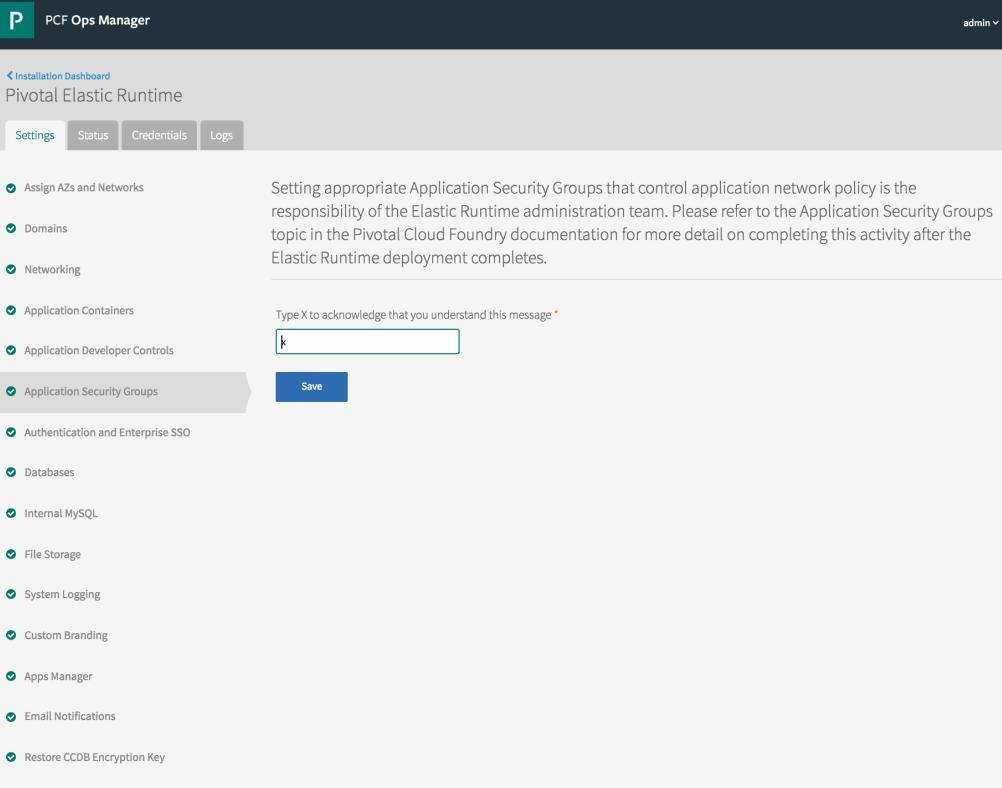
Assign AZs and Networks
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Setting appropriate Application Security Groups that control application network policy is the responsibility of the Elastic Runtime administration team. Please refer to the Application Security Groups topic in the Pivotal Cloud Foundry documentation for more detail on completing this activity after the Elastic Runtime deployment completes.

Type X to acknowledge that you understand this message *

X

Save



 PCF Ops Manager admin ▾

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Configure your user store access, which can be an internal user store (managed by Cloud Foundry's UAA) or an external user store (LDAP or SAML). You can also adjust the lifetimes of authentication tokens.

Configure your UAA user account store with either internal or external authentication mechanisms*

Internal UAA (provided by Elastic Runtime; configure your password policy below)

Minimum Password Length *
 Minimum number of characters for a valid password.

Minimum Uppercase Characters Required for Password *

Minimum Lowercase Characters Required for Password *

Minimum Numerical Digits Required for Password *

Minimum Special Characters Required for Password *

Number of Months Before Password Expires *

Maximum Password Entry Attempts Allowed *

Minimum Uppercase Characters Required for Password *

Minimum Lowercase Characters Required for Password *

Minimum Numerical Digits Required for Password *

Minimum Special Characters Required for Password *

Number of Months Before Password Expires *

Maximum Password Entry Attempts Allowed *

SAML Identity Provider
 LDAP Server

Apps Manager Access Token Lifetime (in seconds) *

Apps Manager Refresh Token Lifetime (in seconds) *

Cloud Foundry CLI Access Token Lifetime (in seconds) *

Cloud Foundry CLI Refresh Token Lifetime (in seconds) *

Save

 PCF Ops Manager admin ▾

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Pivotal Elastic Runtime

Settings Status Credentials Logs

Assign AZs and Networks

Place the databases used by Elastic Runtime components like Cloud Controller and UAA.

Domains

Networking

Application Containers

Application Developer Controls

Application Security Groups

Authentication and Enterprise SSO

Databases

Choose the location of your system databases*

Internal Databases - MySQL and Postgres (the Postgres DBs are not highly-available, but this selection is required if you want to keep your system data from a pre-1.6.0 Elastic Runtime that you upgraded)

Internal Databases - MySQL (preferred for complete high-availability)

External Databases (preferred if, for example, you use AWS RDS)

Save

- Internal MySQL
- File Storage
- System Logging
- Custom Branding
- Apps Manager
- Email Notifications
- Restore CCDB Encryption Key

 PCF Ops Manager admin ▾

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Pivotal Elastic Runtime

Settings Status Credentials Logs

Assign AZs and Networks

Only configure this section if you selected Internal Databases - MySQL or Internal Databases - MySQL and Postgres in the previous Databases section.

Domains

Networking

Application Containers

Application Developer Controls

Application Security Groups

Authentication and Enterprise SSO

Databases

internal MySQL

MySQL Proxy IPs

Enter the IP address(es) for the MySQL proxy instances configured on your external load balancer.

MySQL Service Hostname

Automated Backups Configuration*

Disable Automated MySQL Backups (With this option, set Resource Config > Backup Prepare Node > Instances to 0.)

Enable Automated MySQL Backups (With this option, set Resource Config > Backup Prepare Node > Instances to 1.)

Save

File Storage

System Logging

Custom Branding

Apps Manager

Email Notifications

Restore CCDB Encryption Key

PCF Ops Manager

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◀ Installation Dashboard

Pivotal Elastic Runtime

Settings Status Credentials Logs

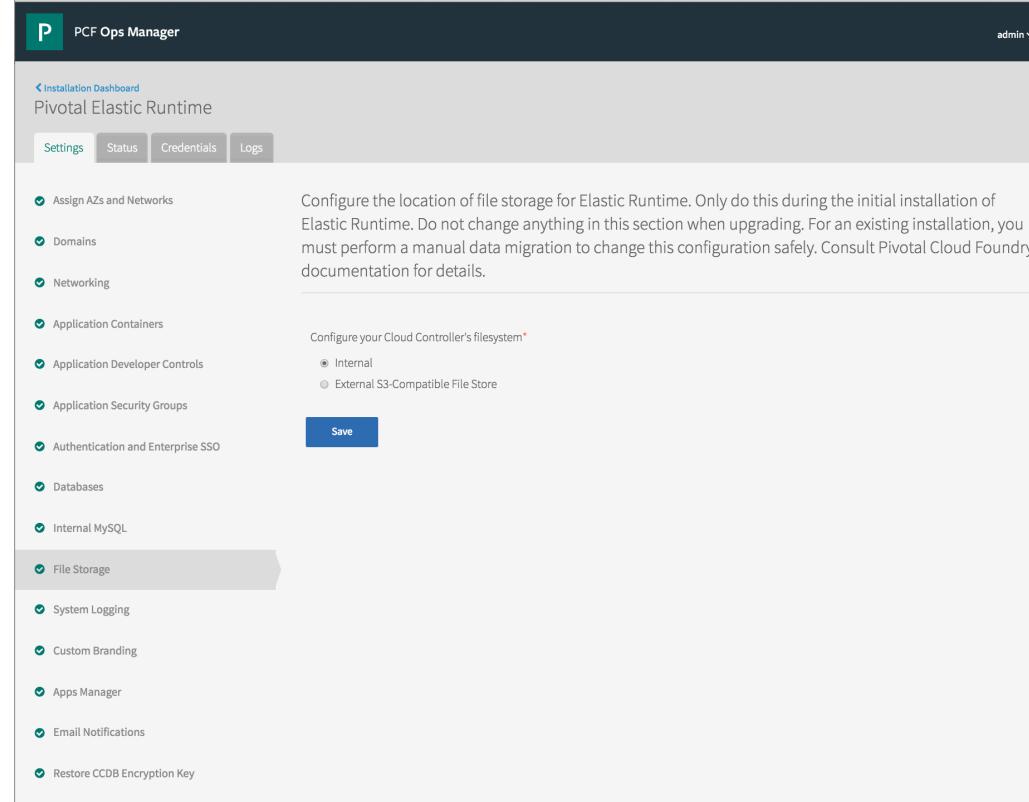
- Assign AZs and Networks
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- Authentication and Enterprise SSO
- Databases
- Internal MySQL
- File Storage**
- System Logging
- Custom Branding
- Apps Manager
- Email Notifications
- Restore CCDB Encryption Key

Configure the location of file storage for Elastic Runtime. Only do this during the initial installation of Elastic Runtime. Do not change anything in this section when upgrading. For an existing installation, you must perform a manual data migration to change this configuration safely. Consult Pivotal Cloud Foundry documentation for details.

Configure your Cloud Controller's filesystem*

Internal
 External S3-Compatible File Store

Save



 PCF Ops Manager admin ▾

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Assign AZs and Networks

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Configure system logging. Complete the External Syslog fields only if using an external syslogd server.

Enable Cloud Controller security event logging

External Syslog Aggregator Hostname

The aggregator must be reachable from the Elastic Runtime network, accept TCP, UDP or RELP connections, and use the RELP protocol (e.g. rsyslogd). You can also configure this with an IP address.

External Syslog Aggregator Port

External Syslog Network Protocol

Syslog Drain Buffer Size (# of messages) *

Save

PCF Ops Manager

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Pivotal Elastic Runtime

Settings Status Credentials Logs

Customize colors, images, and text for Apps Manager and the Cloud Foundry login portal.

Assign AZs and Networks

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Restore CCDB Encryption Key

Company Name Defaults to 'Pivotal'

Accent Color

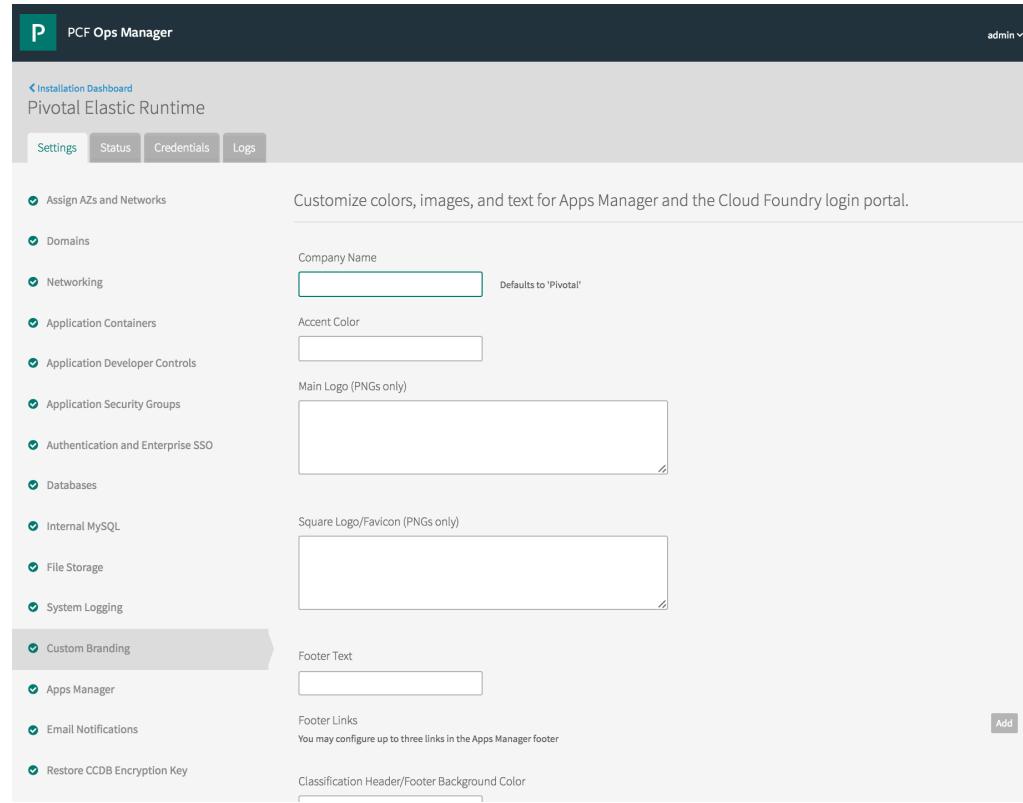
Main Logo (PNGs only)

Square Logo/Favicon (PNGs only)

Footer Text

Footer Links You may configure up to three links in the Apps Manager footer [Add](#)

Classification Header/Footer Background Color



☰ Databases

- ✓ Internal MySQL
- ✓ File Storage
- ✓ System Logging

☰ Custom Branding

- ✓ Apps Manager
- ✓ Email Notifications
- ✓ Restore CCDB Encryption Key
- ✓ Smoke Tests
- ✓ Experimental Features
- ✓ Errands
- ✓ Resource Config
- ✓ Stemcell

Square Logo/Favicon (PNGs only)

Footer Text

Footer Links
You may configure up to three links in the Apps Manager footer

Add

Classification Header/Footer Background Color

Classification Header/Footer Text Color

Classification Header Content

Classification Footer Content

Save

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Pivotal Elastic Runtime

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Apps Manager

Email Notifications

Restore CCDB Encryption Key

Configure Apps Manager

Enable Internal User Store

Enable Non Admin Role Management

Product Name Replace "Apps Manager" in the header with a custom product name (defaults to "Apps Manager" if blank)

Marketplace Name

Add

Customize Sidebar Links
You may configure up to 10 links in the Apps Manager sidebar

Marketplace

Docs

Tools

Save

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PCF Ops Manager

admin ✓

Installation Dashboard

Pivotal Elastic Runtime

Settings Status Credentials Logs

- Assign AZs and Networks
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- Application Security Groups
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- Apps Manager
- Email Notifications
- Restore CCDB Encryption Key

Configure Simple Mail Transfer Protocol for the Notifications application to send email notifications about your deployment. This application is deployed as an errand in Elastic Runtime. If you do not need this service, leave this section blank and disable the Notifications and Notifications UI errands.

From Email The email address from which emails are sent.

Address of SMTP Server

Port of SMTP Server

SMTP Server Credentials

Username

Password

SMTP Enable Automatic STARTTLS

SMTP Authentication Mechanism*

SMTP CRAMMD5 secret

Save

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◀ Installation Dashboard
Pivotal Elastic Runtime

Settings Status Credentials Logs

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Internal MySQL
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System Logging
Custom Branding
Apps Manager
Email Notifications
Restore CCDB Encryption Key

You must enter your original database encryption key here once you have deployed Elastic Runtime for the first time. Anytime thereafter your encryption key will remain the same, if you specify the same key here. This is important for backup and restore of data as well as upgrades.

Cloud Controller DB Encryption Key

Save

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Pivotal Elastic Runtime

Settings Status Credentials Logs

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- Custom Branding
- Apps Manager
- Email Notifications
- Restore CCDB Encryption Key
- Smoke Tests
- Experimental Features

Specify a Cloud Foundry organization and space where smoke tests can run if in the future you delete your Elastic Runtime deployment domains.

Choose whether to create a new org and space on demand for smoke tests*

Temporary org and space (This org and space are deleted after smoke tests finish.)
 Specified org and space (The org and space must have a domain available for routing.)

Save

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Pivotal Elastic Runtime

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Assign AZs and Networks

Domains

Networking

Application Containers

Application Developer Controls

Application Security Groups

Authentication and Enterprise SSO

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System Logging

Custom Branding

Apps Manager

Email Notifications

Restore CCDB Encryption Key

Smoke Tests

Experimental Features

Diego Cells are virtual machines that host applications. Specify how much memory or disk you want to set as the cells available capacity. You can overcommit these resources with values that exceed the Diego Cell VM sizes configured in the Resource Config section.

Cell Memory Capacity (MB) (min: 1)

Cell Disk Capacity (MB) (min: 1)

[Save](#)

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PIVOTAL ELASTIC RUNTIME

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Errands

Errands

Errands are scripts that run at designated points during an installation.

Post-Deploy Errands

Run Smoke Tests Runs Smoke Tests against your Elastic Runtime installation

Push Apps Manager Pushes the Pivotal Apps Manager application to your Elastic Runtime installation

Notifications Notifications release for PCF

Notifications-UI Notifications UI Component for PCF

Deploy CF Autoscaling App Deploys the CF Autoscaling App

Register Autoscaling Service Broker Register Autoscaling Service Broker

There are no pre-delete errands for this product.

Save

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PCF Ops Manager

admin ▾

◀ Installation Dashboard

Pivotal Elastic Runtime

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Resource Config

JOB	INSTANCES	PERSISTENT DISK TYPE	VM TYPE
Consul	Automatic: 1	Automatic: 1 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
NATS	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
etcd	Automatic: 1	Automatic: 1 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Diego BBS	Automatic: 1	Automatic: 1 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
NFS Server	Automatic: 1	Automatic: 100 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Router	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
MySQL Proxy	Automatic: 1	None	Automatic: small (cpu: 1, ram: 2 GB, disk: 4 G)
MySQL Server	Automatic: 1	Automatic: 100 GB	Automatic: large.disk (cpu: 2, ram: 8 GB, disk: 4 G)
Backup Prepare Node	Automatic: 0	None	Automatic: 2xlarge.disk (cpu: 8, ram: 32 GB, disk: 16 G)
Cloud Controller Database (Postgres)	Automatic: 0	Automatic: 2 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
UAA Database (Postgres)	Automatic: 0	Automatic: 10 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Apps Manager Database (Postgres)	Automatic: 0	Automatic: 1 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Cloud Controller	Automatic: 1	None	Automatic: medium.disk (cpu: 2, ram: 4 GB, disk: 2 G)
HAProxy	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Clock Global	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Cloud Controller Worker	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Collector	Automatic: 0	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
UAA	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
Diego Brain	Automatic: 1	Automatic: 1 GB	Automatic: small (cpu: 1, ram: 2 GB, disk: 4 G)
Diego Cell	Automatic: 3	None	Automatic: large.disk (cpu: 4, ram: 16 GB, disk: 16 G)
Doppler Server	Automatic: 1	None	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)

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<input checked="" type="checkbox"/> File Storage	Automatic: 0	Automatic: 1 GB	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 G)
<input checked="" type="checkbox"/> System Logging	Cloud Controller	Automatic: 1	Automatic: medium.disk (cpu: 2, ram: 4 GB, c)
<input checked="" type="checkbox"/> Custom Branding	HAProxy	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
<input checked="" type="checkbox"/> Apps Manager	Clock Global	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
<input checked="" type="checkbox"/> Email Notifications	Cloud Controller Worker	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
<input checked="" type="checkbox"/> Restore CCDB Encryption Key	Collector	Automatic: 0	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
<input checked="" type="checkbox"/> Smoke Tests	UAA	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
<input checked="" type="checkbox"/> Experimental Features	Diego Brain	Automatic: 1	Automatic: small (cpu: 1, ram: 2 GB, disk: 4 G)
<input checked="" type="checkbox"/> Errands	Diego Cell	Automatic: 3	Automatic: xlarge.disk (cpu: 4, ram: 16 GB, d)
<input checked="" type="checkbox"/> Resource Config	Doppler Server	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
<input checked="" type="checkbox"/> Stemcell	Loggregator/Trafficcontroller	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Push Apps Manager	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Run Smoke Tests	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Notifications	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Run Notifications Tests	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Notifications-UI	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Run Notifications-UI tests	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Deploy CF Autoscaling App	Automatic: 1	Automatic: nano (cpu: 1, ram: 512 MB, disk: 1 C)
	Register Autoscaling Service Broker	Automatic: 1	Automatic: nano (cpu: 1, ram: 512 MB, disk: 1 C)
	Destroy autoscaling service broker	Automatic: 1	Automatic: nano (cpu: 1, ram: 512 MB, disk: 1 C)
	Run Autoscaling Tests	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Run CF Acceptance Tests	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Run CF Acceptance Tests without internet	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Run Release Engineering Acceptance Tests	Automatic: 1	Automatic: micro (cpu: 1, ram: 1 GB, disk: 2 C)
	Bootstrap	Automatic: 1	Automatic: small (cpu: 1, ram: 2 GB, disk: 4 G)
	Compilation	Automatic: 1	Automatic: medium.disk (cpu: 2, ram: 4 GB, c)

Save

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- Stemcell

Stemcell

A stemcell is a template from which Ops Manager creates the VMs needed for a wide variety of components and products.

cf requires BOSH stemcell version 3232 ubuntu-trusty

✓ [Using Pivotal-CFbos-stemcell-3232.12-vsphere-esxi-ubuntu-trusty-go_agent.tgz](#)

[Import Stemcell](#)

PCF Installation

Status, Log Analysis, Credentials

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Jobs on Availability Zone "AZ1"

JOB	INDEX	IPS	CID	LOAD AVG15	CPU	MEMORY	SWAP	SYSTEM DISK	EPHEM. DISK	PERS. DISK	LOGS
Consul	0	[REDACTED]	vm-90724955-415f-45f0-9323-1f83faaf685	0.05	0.7%	9%	0%	44%	11%	0%	
NATS	0	[REDACTED]	vm-da52b33a-2755-40c4-a71e-736971daf5c4	0.05	0.2%	8%	0%	44%	4%	N/A	
etcd	0	[REDACTED]	vm-f5b6e25b-c537-4ed6-b08c-134c0117e29f	0.05	0.5%	10%	0%	44%	7%	18%	
Diego BBS	0	[REDACTED]	vm-1c3cf6bc-3ab4-479f-a262-b6f7bebe584d	0.05	1.3%	13%	0%	44%	24%	21%	
NFS Server	0	[REDACTED]	vm-7e0f4512-cca2-4900-80f3-035f696b353f	0.05	0.1%	9%	0%	44%	2%	3%	
Router	0	[REDACTED]	vm-00fb8b23-41e4-47ba-9673-0fec646303b9	0.05	0.3%	9%	0%	44%	6%	N/A	
MySQL Proxy	0	[REDACTED]	vm-96730433-b085-432c-b496-59938df14773	0.05	0.2%	5%	0%	44%	16%	N/A	
MySQL Server	0	[REDACTED]	vm-ed05b4cc-79f9-4cfb-b200-e63c8c752ffd	0.05	0.3%	8%	0%	44%	2%	3%	
Cloud Controller	0	[REDACTED]	vm-a694b0b4-a2bb-4466-846c-399acf0bb103	0.06	1.4%	15%	0%	44%	8%	44%	
HAProxy	0	[REDACTED]	vm-e1fc978d-b00b-4380-a46e-e8b5cbd323a	0.05	0.3%	10%	0%	44%	12%	44%	
Clock Global	0	[REDACTED]	vm-d3fd2dda-8416-4c22-9ca8-d05c4e154ddf	0.05	0.5%	23%	0%	44%	37%	N/A	
Cloud Controller Worker	0	[REDACTED]	vm-e680885c-a436-4732-8828-1c8fda0c0ffe	0.05	1.4%	25%	0%	44%	45%	44%	
UAA	0	[REDACTED]	vm-8a6ca44d-c0d7-4d96-8e4c-ff18a28f7f59	0.06	1.0%	43%	1%	44%	67%	44%	
Diego Brain	0	[REDACTED]	vm-7de58add-f028-449f-9b52-914088202924	0.12	1.5%	8%	0%	44%	20%	0%	
	0	[REDACTED]	vm-c76547ec-494c-43c1-a2db-5805049b7625	0.05	0.1%	7%	0%	45%	7%	45%	
Diego Cell	1	[REDACTED]	vm-e66cb14a-3b03-4234-9310-6438c87a87ee	0.05	0.3%	15%	0%	45%	8%	45%	
	2	[REDACTED]	vm-cdfcb99-f63a-4546-a31a-6f835d1acfd	0.06	0.4%	14%	0%	45%	5%	45%	
Doppler Server	0	[REDACTED]	vm-9fa8000a-3597-4d23-9f04-191de02e058	0.05	1.3%	9%	0%	44%	6%	N/A	
Loggregator-Trafficcontroller	0	[REDACTED]	vm-6fb99984-f406-415f-959e-224044995b16	0.05	0.2%	8%	0%	44%	8%	N/A	



Available Products

Ops Manager Director

No upgrades available

Pivotal Elastic Runtime

No upgrades available

Spring Cloud Services

No upgrades available

RabbitMQ

No upgrades available

Redis

No upgrades available

Log Search

1.0.0▼

Metrics

1.0.8▼

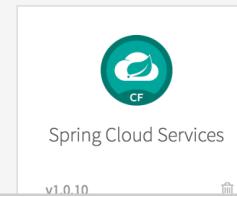
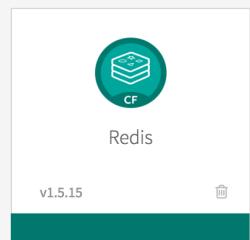
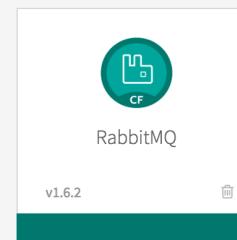
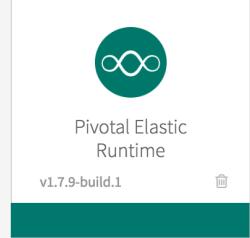
Single Sign-On

1.1.1▼

MySQL for Pivotal Cloud Foundry

No upgrades available

Installation Dashboard



No updates

Apply changes

Log out

admin ▾

Settings

My Account

Change Log

PCF Ops Manager admin ▾

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Change Log

Show 25 entries

Timestamp User Result Logs

Timestamp	User	Result	Logs
Wed Jul 06 2016 18:41:28 GMT-0400 (EDT)	admin	SUCCEEDED	Logs

Showing 1 to 1 of 1 entries

Previous 1 Next

[◀ Change Log](#)

Installation Log for 07/06 19:57 UTC - 07/06 22:41 UTC

[Show plain text](#)

```
{"type": "step_started", "id": "bosh_product.deploying"}  
===== 2016-07-06 19:57:01 UTC Running "bosh-init deploy /var/tempest/workspaces/default/deployments/bosh.yml"  
Deployment manifest: '/var/tempest/workspaces/default/deployments/bosh.yml'  
Deployment state: '/var/tempest/workspaces/default/deployments/bosh-state.json'
```

```
Started validating  
  Validating release 'bosh'... Finished (00:00:07)  
  Validating release 'bosh-vsphere-cpi'... Finished (00:00:00)  
  Validating release 'uaa'... Finished (00:00:04)  
  Validating cpi release... Finished (00:00:00)  
  Validating deployment manifest... Finished (00:00:00)  
  Validating stemcell... Finished (00:00:04)  
Finished validating (00:00:17)
```

```
Started installing CPI  
  Compiling package 'vsphere_cpi_mkisofs/b3ebe039dae6a312784ece4da34d66053d1dfbba'... Finished (00:02:41)  
  Compiling package 'vsphere_cpi_ruby/3ce375f2863799664bff235e2c778a3131f1e981'... Finished (00:02:08)  
  Compiling package 'vsphere_cpi/25b503db8f1cc3b416fa9859cd750fea9974970f'... Finished (00:00:54)  
  Installing packages... Finished (00:00:00)  
  Rendering job templates... Finished (00:00:02)  
  Installing job 'vsphere_cpi'... Finished (00:00:00)  
Finished installing CPI (00:05:47)
```

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AZ and Network Assignments

Place singleton jobs in

-
- us-east-1a
-
-
- us-east-1c

Balance other jobs in

-
- us-east-1a
-
-
- us-east-1c

Network

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Jobs on Availability Zone "AZ1"

JOB	INDEX	IPS	CID	LOAD AVG15	CPU	MEMORY	SWAP	SYSTEM DISK	EPHEM. DISK	PERS. DISK	LOGS
Consul	0	[REDACTED]	vm-90724955-415f-45f0-9323-1f83faaaaf685	0.05	0.5%	9%	0%	44%	11%	0%	
NATS	0	[REDACTED]	vm-da52b33a-2755-40c4-a71e-736971daf5c4	0.05	0.1%	8%	0%	44%	4%	N/A	
etcd	0	[REDACTED]	vm-f5b6e25b-c537-4ed6-b08c-134c0117e29f	0.05	0.4%	11%	0%	44%	7%	18%	
Diego BBS	0	[REDACTED]	vm-1c3cf6bc-3ab4-479f-a262-b6f7bebe584d	0.10	1.6%	13%	0%	44%	28%	21%	
NFS Server	0	[REDACTED]	vm-7e0f4512-cca2-4900-80f3-035f696b353f	0.05	0.1%	9%	0%	44%	2%	3%	
Router	0	[REDACTED]	vm-00fb8b23-41e4-47ba-9673-0fec646303b9	0.05	0.4%	9%	0%	44%	6%	N/A	

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Pivotal Elastic Runtime

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NAME

CREDENTIALS

Smtp Credentials

[Link to Credential](#)

Consul Encrypt Key

[Link to Credential](#)

Consul Agent Cert

[Link to Credential](#)

Consul Server Cert

[Link to Credential](#)

Etcd Peer Cert

[Link to Credential](#)

Etcd Client Cert

[Link to Credential](#)

Etcd Server Cert

[Link to Credential](#)

Bbs Client Cert

[Link to Credential](#)

Bbs Server Cert

[Link to Credential](#)

JOB

NAME

CREDENTIALS

Consul

VM Credentials

[Link to Credential](#)

NATS

VM Credentials

[Link to Credential](#)

Credentials

[Link to Credential](#)

etcd

VM Credentials

[Link to Credential](#)

Diego BBS

VM Credentials

[Link to Credential](#)

Bbs Encryption Passphrase

[Link to Credential](#)

NFS Server

VM Credentials

[Link to Credential](#)

Router

VM Credentials

[Link to Credential](#)