

Cloud Foundry: Infrastructure Options

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Infrastructure Options for Cloud Foundry



Cloud Foundry is infrastructure-agnostic; it can be deployed on:

an laaS

a virtualization platform

a local machine







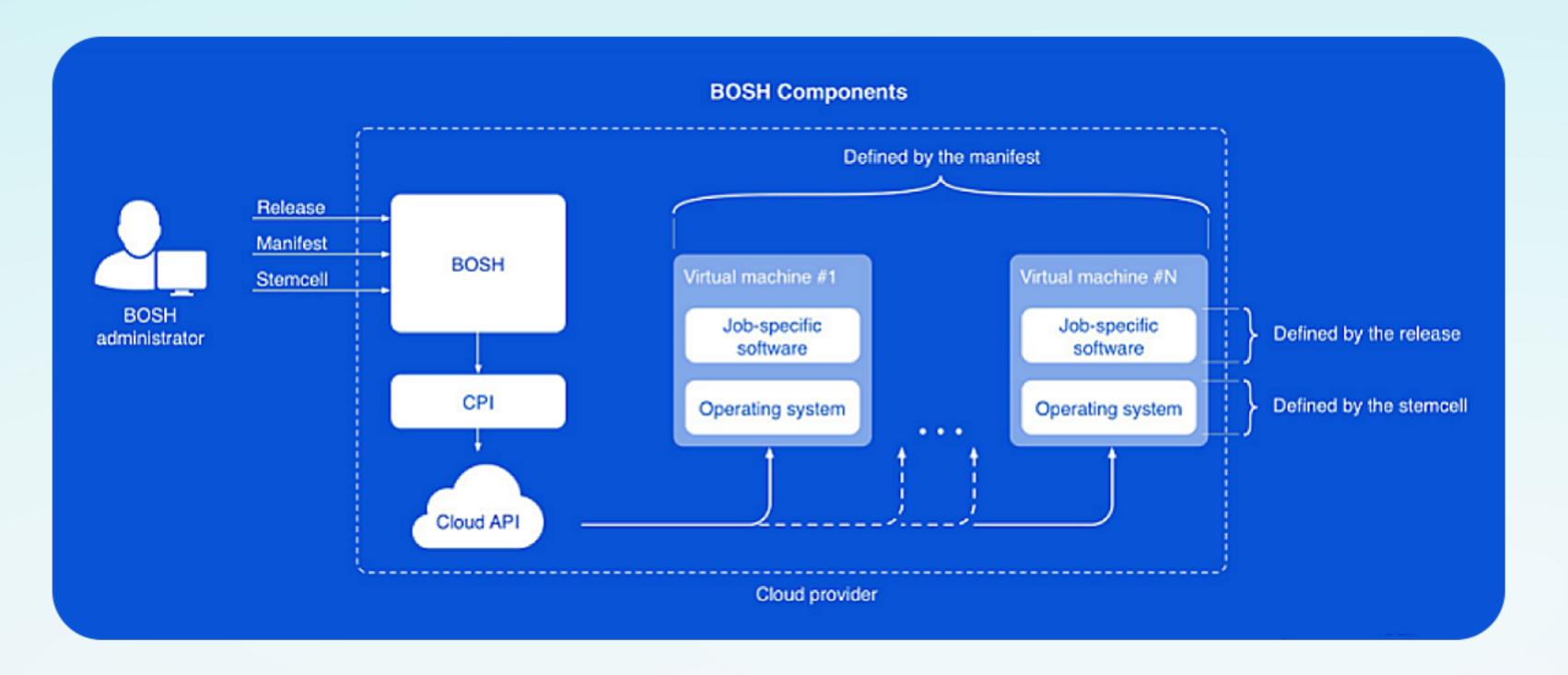


Deployment and Orchestration



BOSH: a tool chain for Cloud Foundry deployment and management

BOSH Lite: a local Cloud Foundry deployment



Communication via BOSH CPIs



BOSH interacts with an infrastructure layer through CPIs.

BOSH CPIs

Amazon Web Services vCloud

CloudStack vSphere + Custom CPIs

Microsoft Azure* Warden/Garden

OpenStack

Work in progress: Google Compute Engine, SoftLayer, and more.

^{*} A Microsoft-native CPI for Azure has just arrived.

BOSH CPIs at GitHub



Amazon Web Services https://github.com/cloudfoundry-incubator/bosh-aws-cpi-release

CloudStack https://github.com/cloudfoundry-community/bosh-cloudstack-cpi-release

Microsoft Azure https://github.com/cloudfoundry-incubator/bosh-azure-cpi-release

OpenStack https://github.com/cloudfoundry-incubator/bosh-openstack-cpi-release

vCloud https://github.com/cloudfoundry-incubator/bosh-vcloud-cpi-release

vSphere https://github.com/cloudfoundry-incubator/bosh-vsphere-cpi-release

Warden/Garden https://github.com/cppforlife/bosh-warden-cpi-release

Examples of Hardware Requirements



Example 1. Installing Cloud Foundry on vSphere

	CPU	RAM	DISK	NIC
Minimum hardware requirements	2 physical cores	48 GiB	500 GB	1
Recommended hardware configuration for a CF POC	8 physical cores	128 GiB	1TB	2

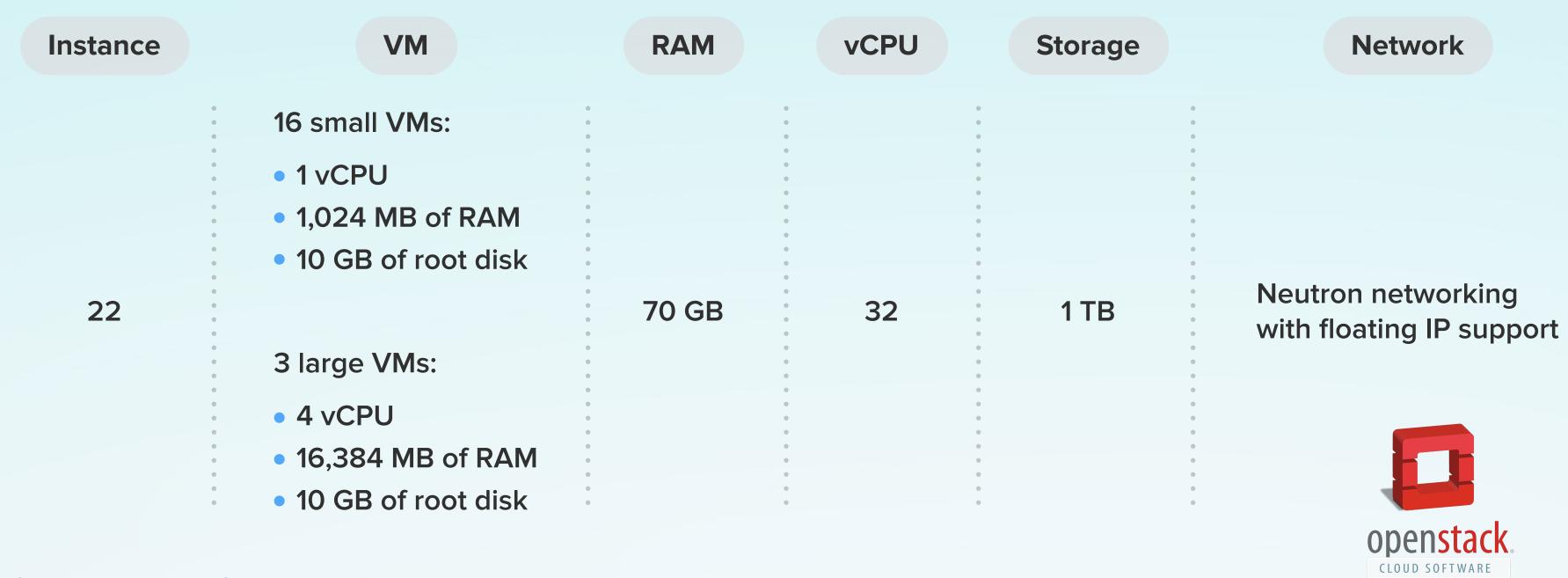
Source: CF Docs



Examples of Hardware Requirements



Example 2. Installing Pivotal CF on OpenStack



Source: Pivotal CF Docs

Evaluation Criteria



Things to consider when choosing a cloud provider:

- SLA
- Risk management
- Location
- Pricing
- Customer reference
- Benchmarks



Want More? Download This Guide!



Architect's Guide to Implementing Cloud Foundry

- Infrastructure offerings for CF
- Choosing an laaS
- Hardware requirements for a CF deployment



http://paas.ly/1Q6fXvP

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Related Information:

How to Add BOSH Support to a Custom Cloud

In Case You Need Assistance...



Altoros deploys and integrates solutions offered by the Cloud Foundry ecosystem.



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We're behind some of the world's largest Cloud Foundry deployments!

Altoros Fact Sheet





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Thank You!





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