Cloud Foundry Overview

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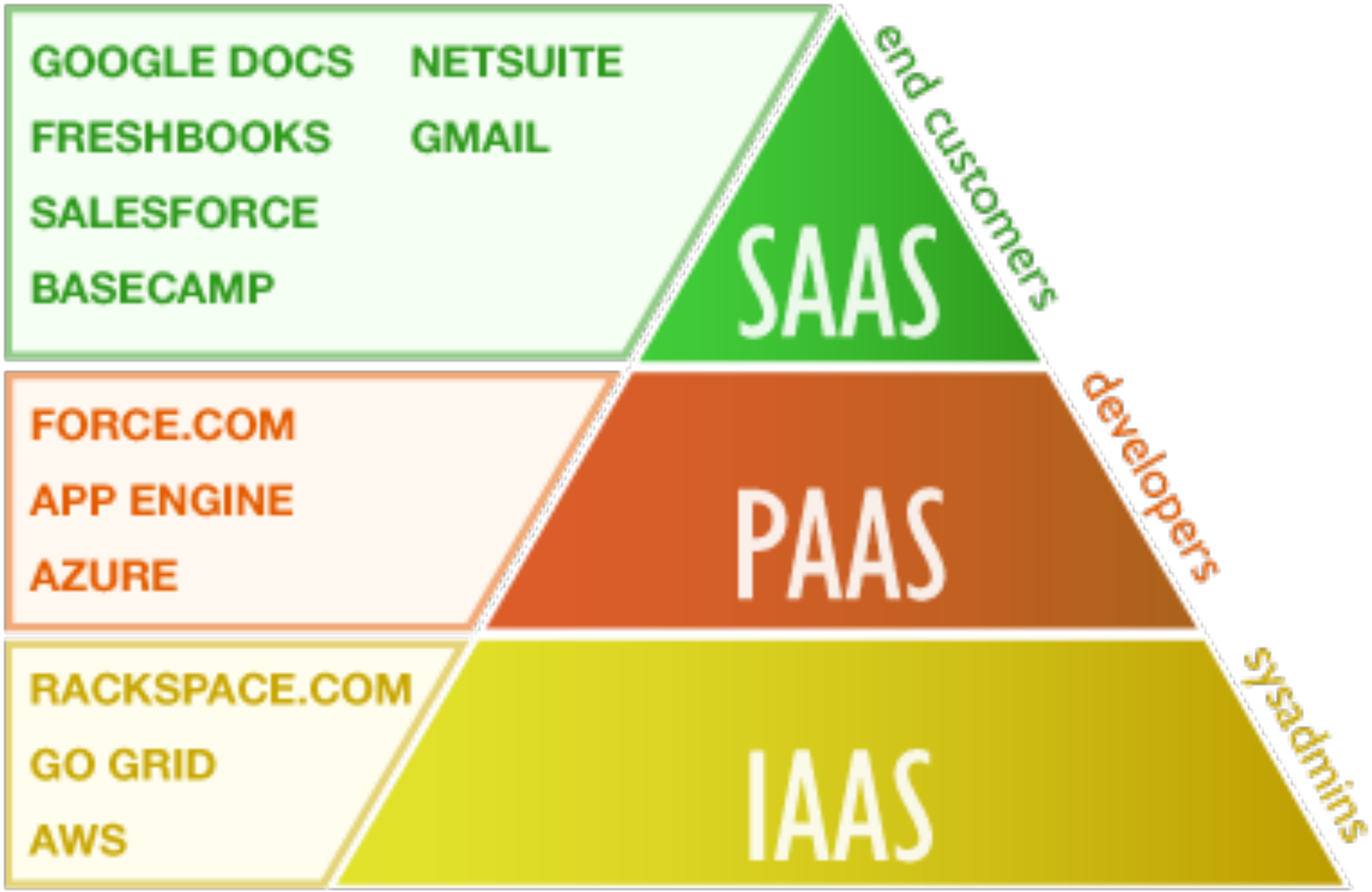
Cloud computing



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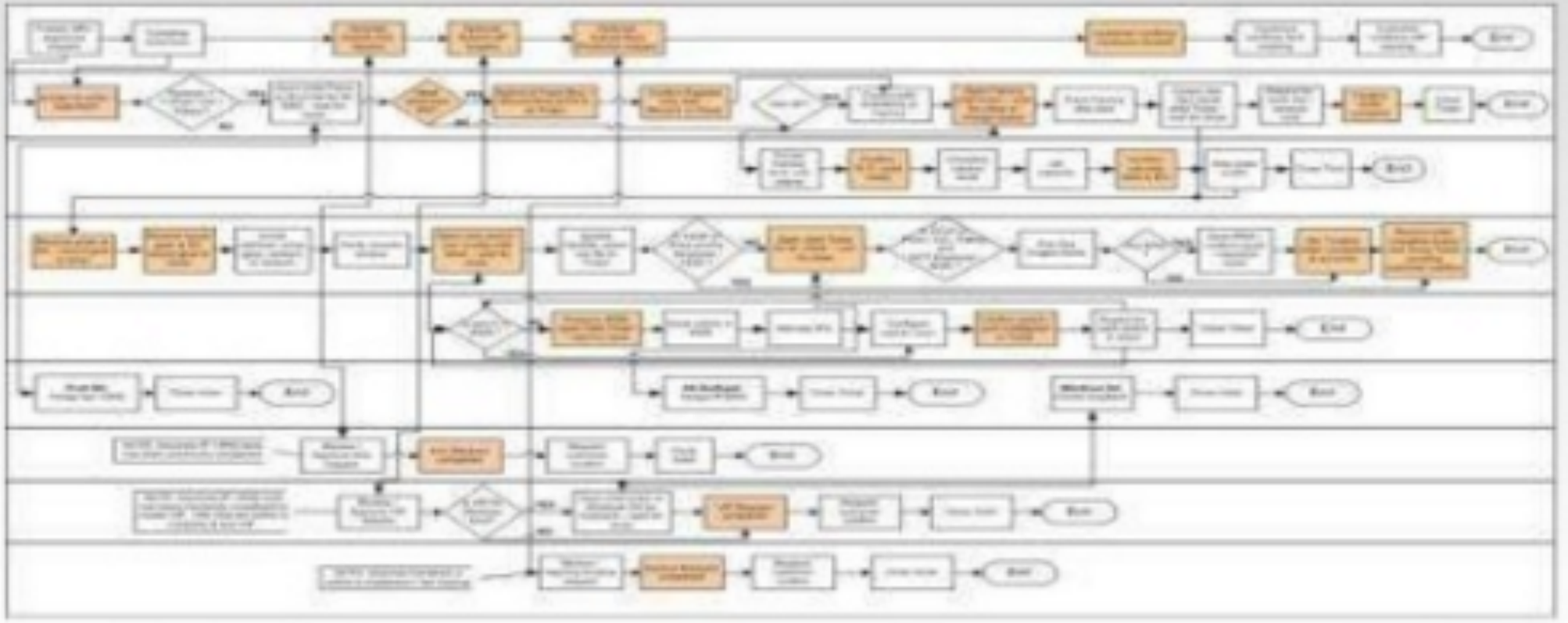
The Reality in Enterprises…Months and Weeks



… and do it all over again from Dev → Test → Prod on any infrastructure

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The Key Benefits of PaaS for Developers

Simplifying business processes

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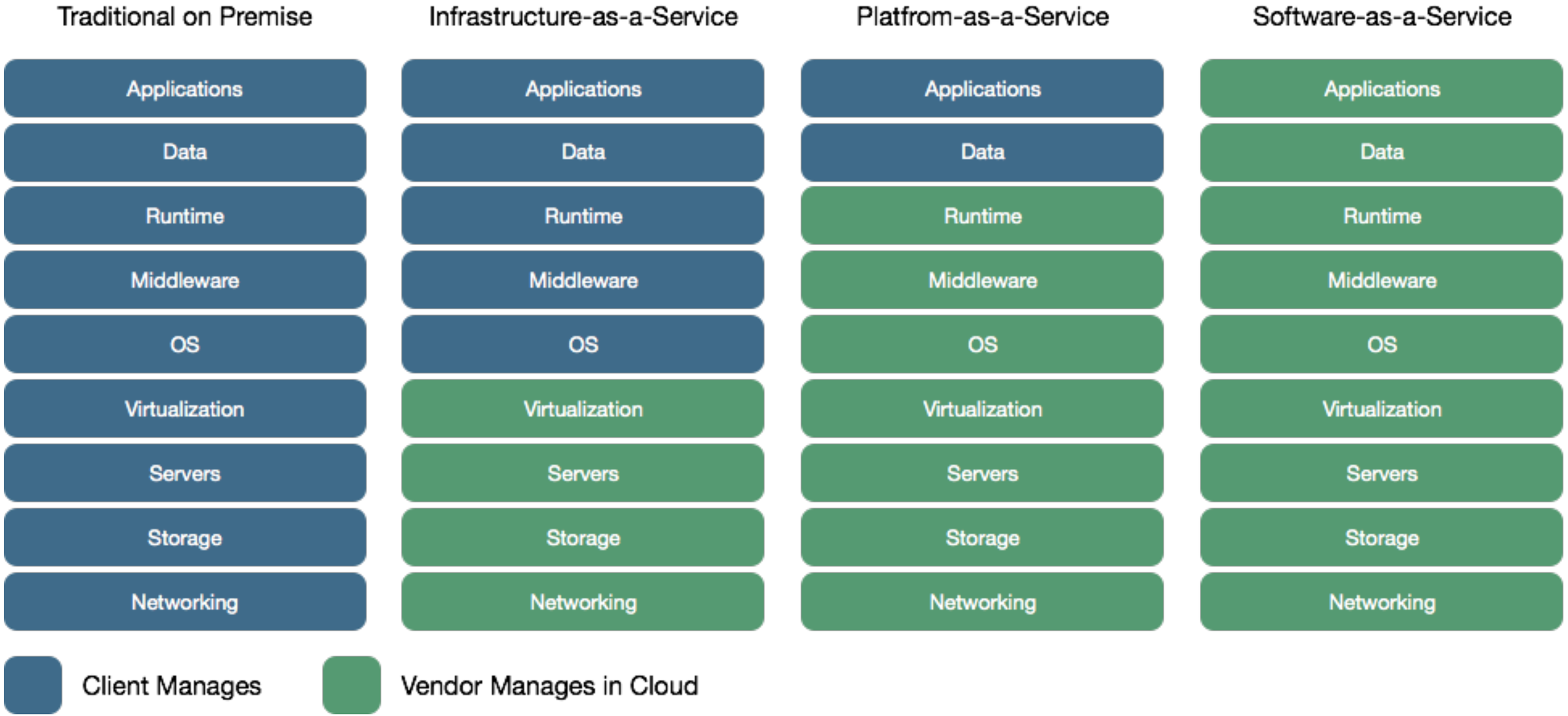
Cloud Delivery Model



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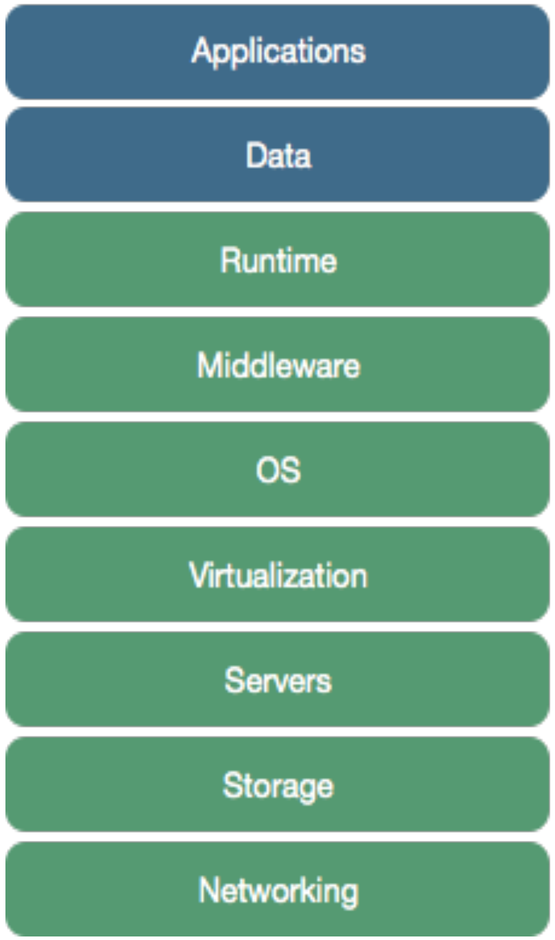
Platform-as-a-Service



heroku

Google Cloud Platform

Elastic Beanstalk

OPENSHIFT

swisscom

Pivotal Web Services

HP Helion

IBM Bluemix

CenturyLink Cloud Services

SAP HANA Cloud Platform

CLOUD FOUNDRY

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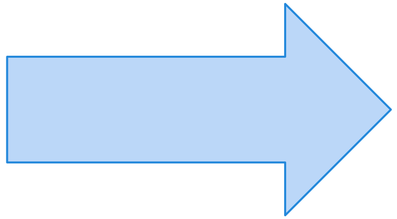
What Is Cloud Foundry?



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Features

- ❖ Simplified application build & deploy cycles
- ❖ Powerful tools for operations and monitoring
- ❖ Highly extensible
- ❖ Platform independent
- ❖ Fast & stable continuous development
- ❖ One of the best open source communities

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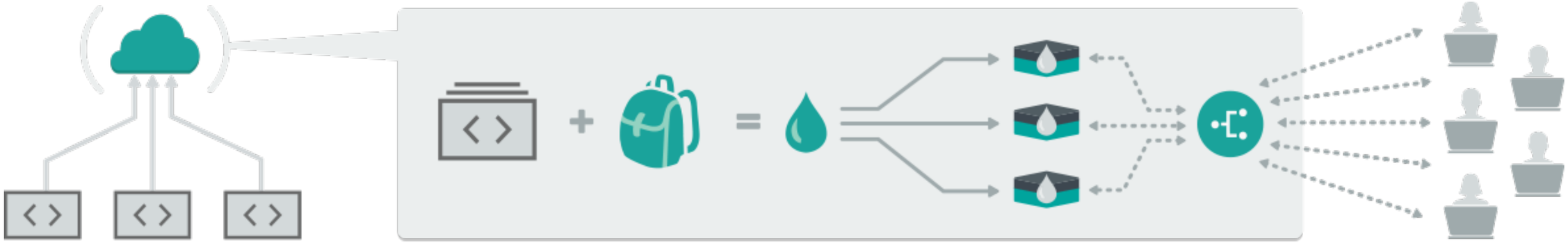
Simple



Upload

cf push uploads your files to the platform which transforms them a running application.

Stage

Behind the scenes, your files go through staging scripts called **buildpacks** to create a **ready-to-run droplet.**

Distribute

Diego runs the droplets in containers, calls a start command and notifies that your app instances are ready to receive traffic.

Run

Your app receives an entry in a **dynamic routing** tier, which load balances traffic across all your app instances.

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Ideal For… Developers

- ❖ Forget about infrastructure
- ❖ Fast and secure deployment methods
- ❖ Same workflow of deployment and implementation for testing and production
- ❖ Support for a wide range of stacks from the base installation (Ruby, nodejs, Java, Golang, Python, PHP)
- ❖ Dynamic binding of services
- ❖ Highly-available deployments
- ❖ Built-in scalability
- ❖ Allows them to focus on code

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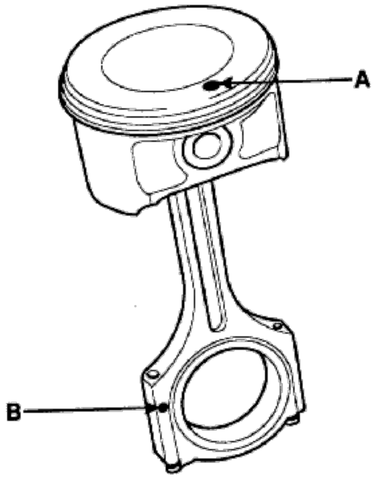
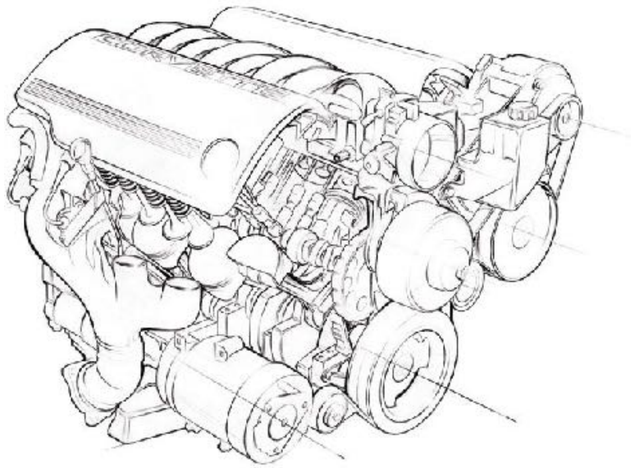
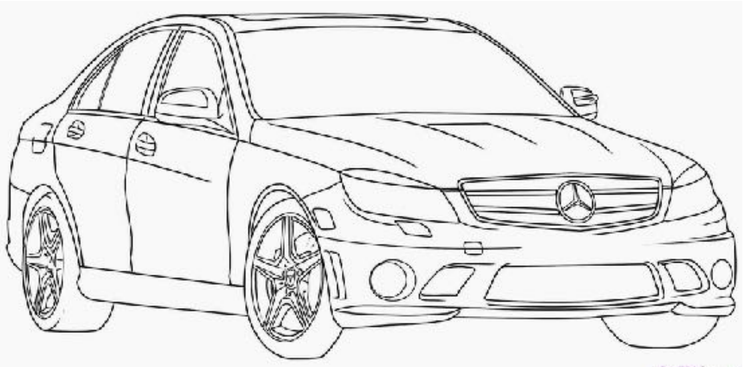
Ideal For… DevOps

- Stable, predictable, and self-healing
- IaaS-independent (almost)
- Highly-available in almost all components
- Fast fixes for security issues
- All components provided by the same community (cf-release, bosh, stemcells)
- Great support from community (especially from on Slack)

Container	Orchestration	Platform
Docker Rocket Garden (CF)	Kubernetes Swarm Fleet Nomad Diego - CC (CF)	OpenShift Google App Engine Deis Cloud Foundry







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What is the Cloud Foundry Foundation?

Platinum Members

EMC² · Hewlett Packard Enterprise · IBM · intel · Pivotal · SAP · vmware

Gold Members

accenture High performance. Delivered. · BNY MELLON · Capgemini · CenturyLink · CISCO · ERICSSON · GE · Hortonworks · HUAWEI · NTT · sas · swisscom · Telstra · verizon

Silver Members

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