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Application Deployment with Puppet

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Wien, 24. Januar 2018

Leading platform. Datacenter standard.

Experience	Founded in 2005
Scale	More than 10 million nodes managed
Ecosystem	Deep partnerships with datacenter titans
Customers	1,200+ enterprise customers, 75 of the Fortune 100
Community	4,900+ community-contributed modules
Users	37,000+ organizations using Puppet
Backing	vmware KPCB cisco true ventures RADAR PARTNERS Google ventures

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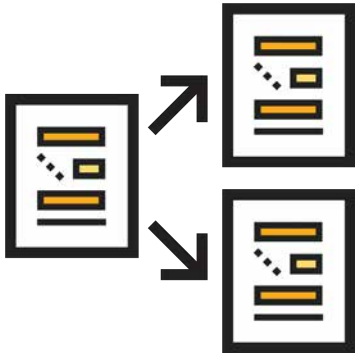
Puppet Enterprise is an automatic way to:

know what you have



control it and enforce consistency

secure it and keep it compliant

modernize it

Using a common language

Across everything, no matter where it runs

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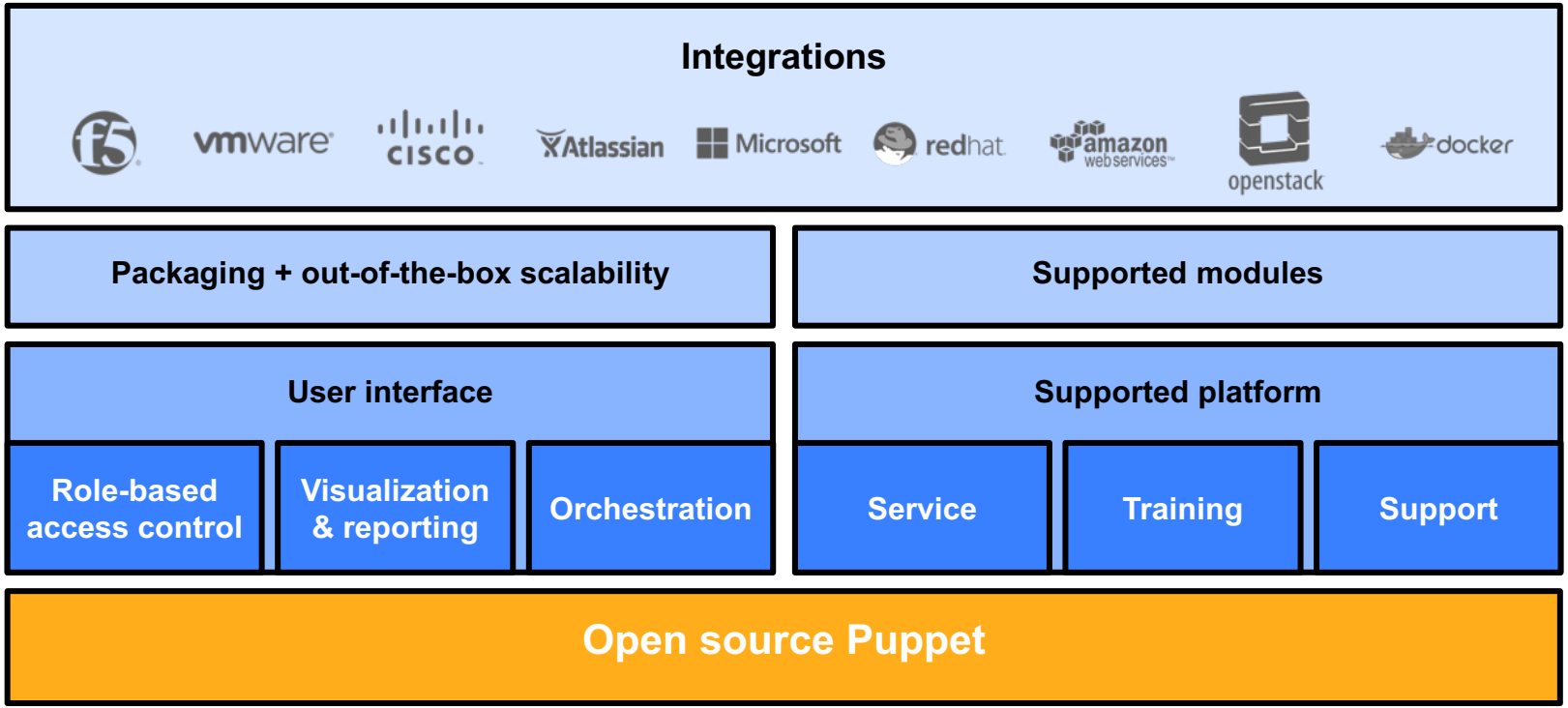
Technical Overview: Puppet Enterprise



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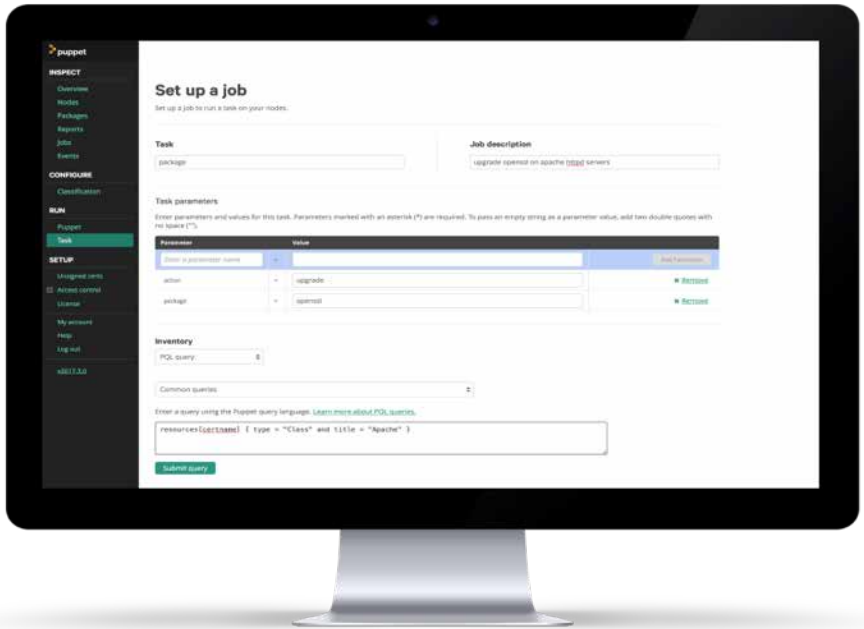
What else is in the Portfolio?

Puppet Enterprise Task Management

Powerful task ad hoc execution and visibility for larger infrastructures and teams



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Discovery as an on ramp to modern automation

Discovery with Puppet

Quickly identify things that aren't being automatically managed, but should be.

Discover Packages

Discover Cloud Resources

Discover Containers

Once you know what you have, automate it with Puppet

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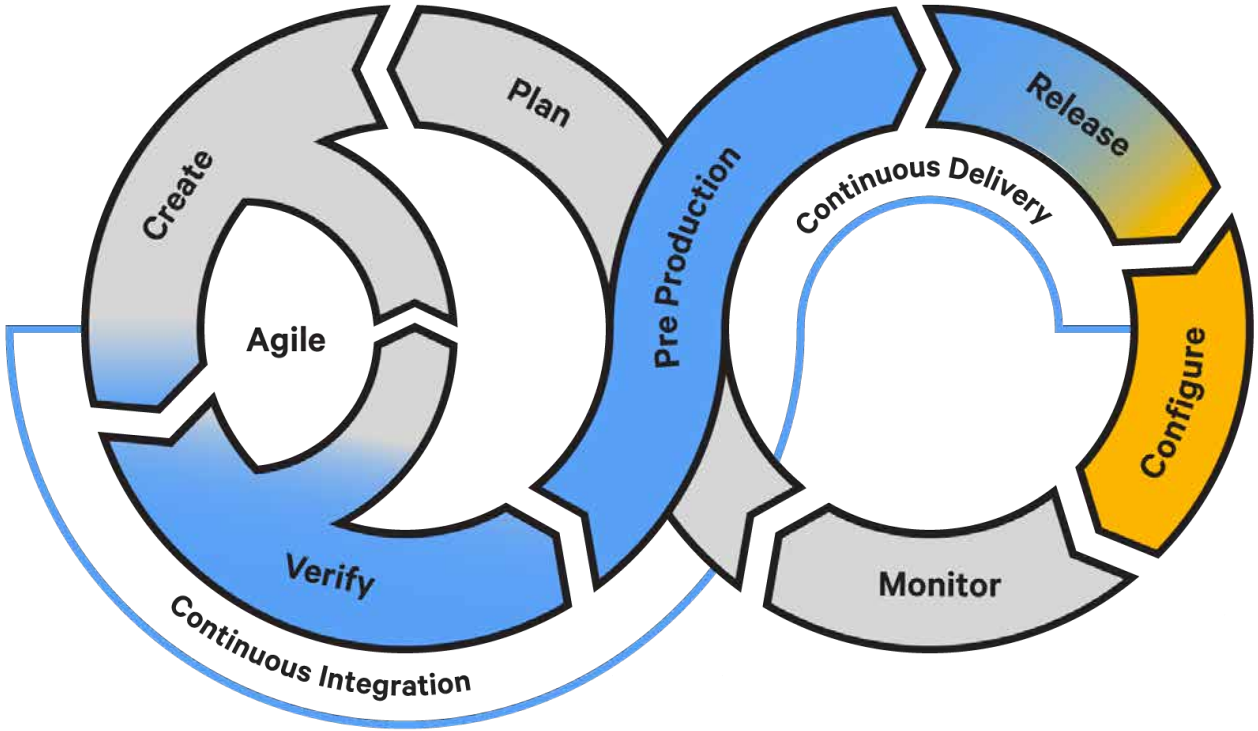
Puppet Pipelines

Orchestrating and automating the entire software delivery lifecycle



Puppet portfolio

Puppet + Distelli portfolio

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Puppet Pipelines

Puppet Pipelines for Applications

Puppet Pipelines for Containers

Puppet Pipelines for Containers

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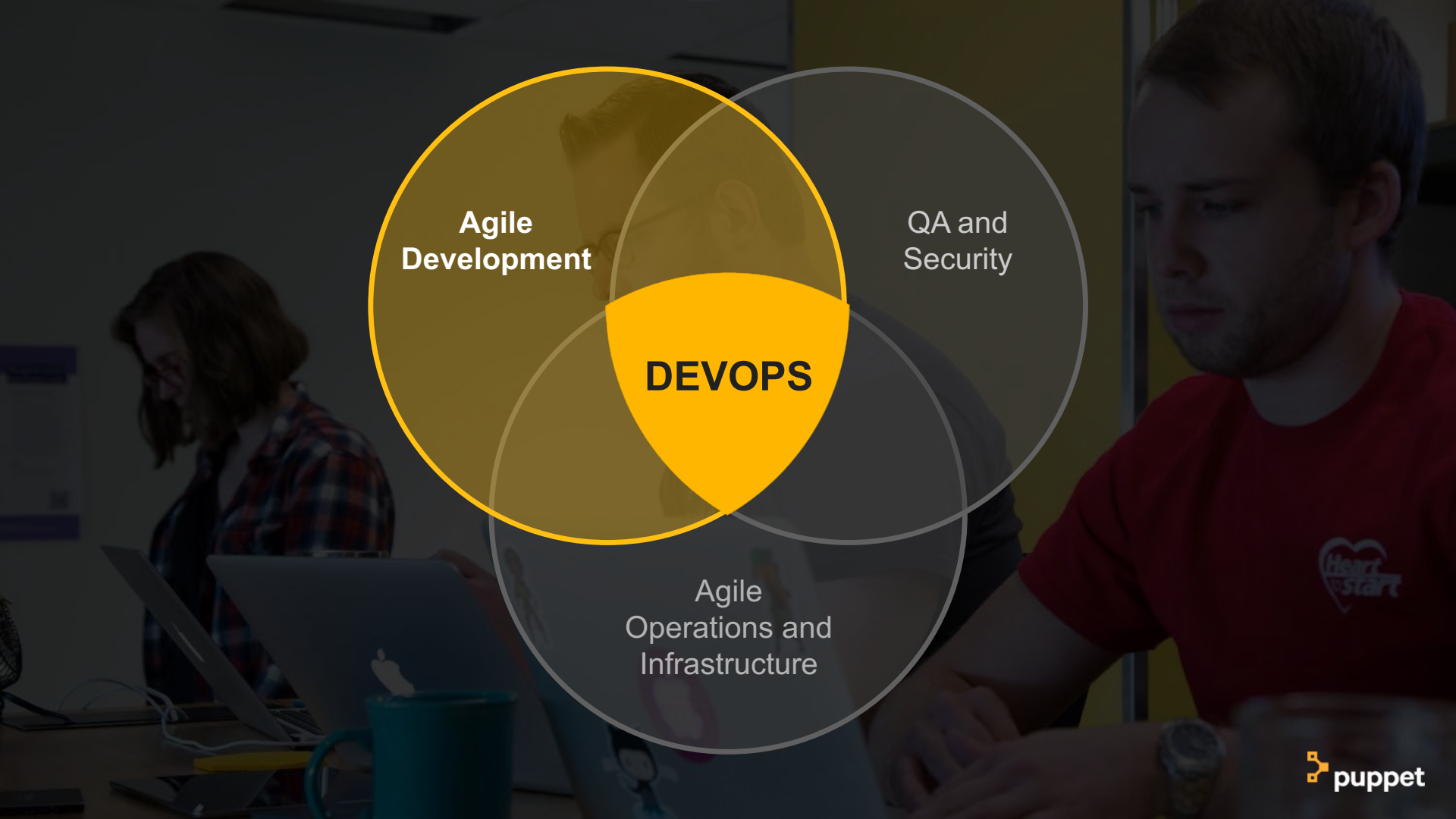
Build a DevOps Ecosystem with Puppet Enterprise

Deliver faster with a proven DevOps platform


Agile
Development
QA and
Security
DEVOPS
Agile
Operations and
Infrastructure

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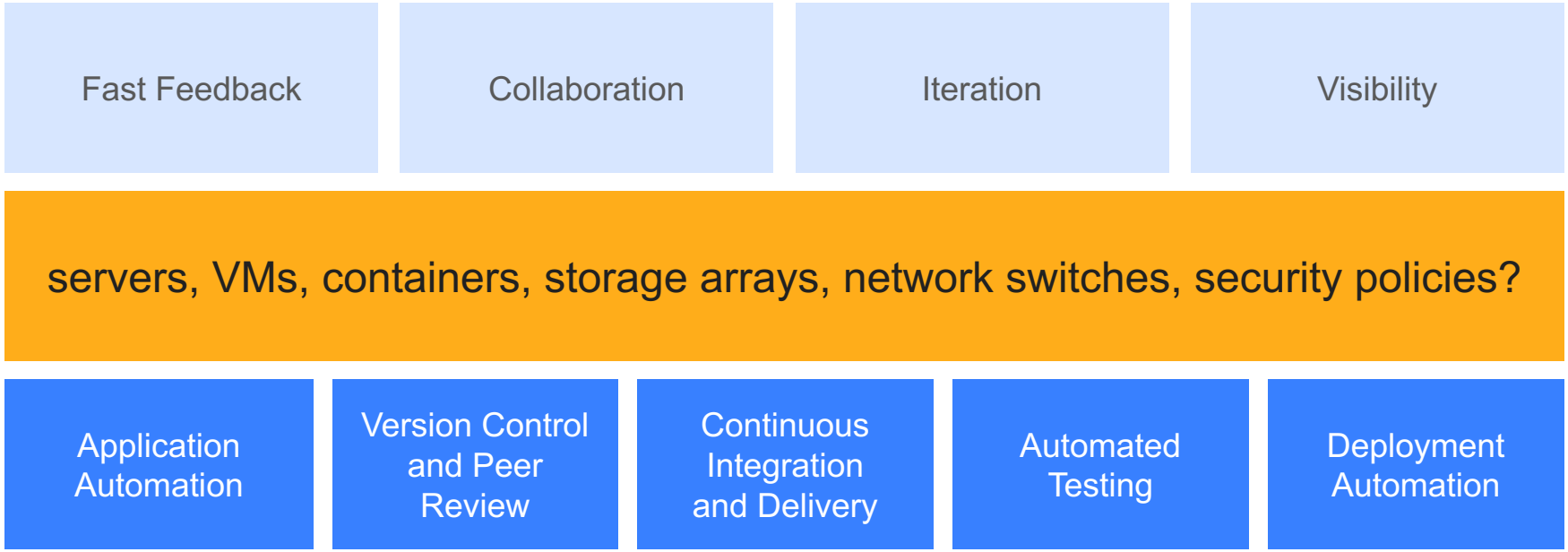
Agile practices



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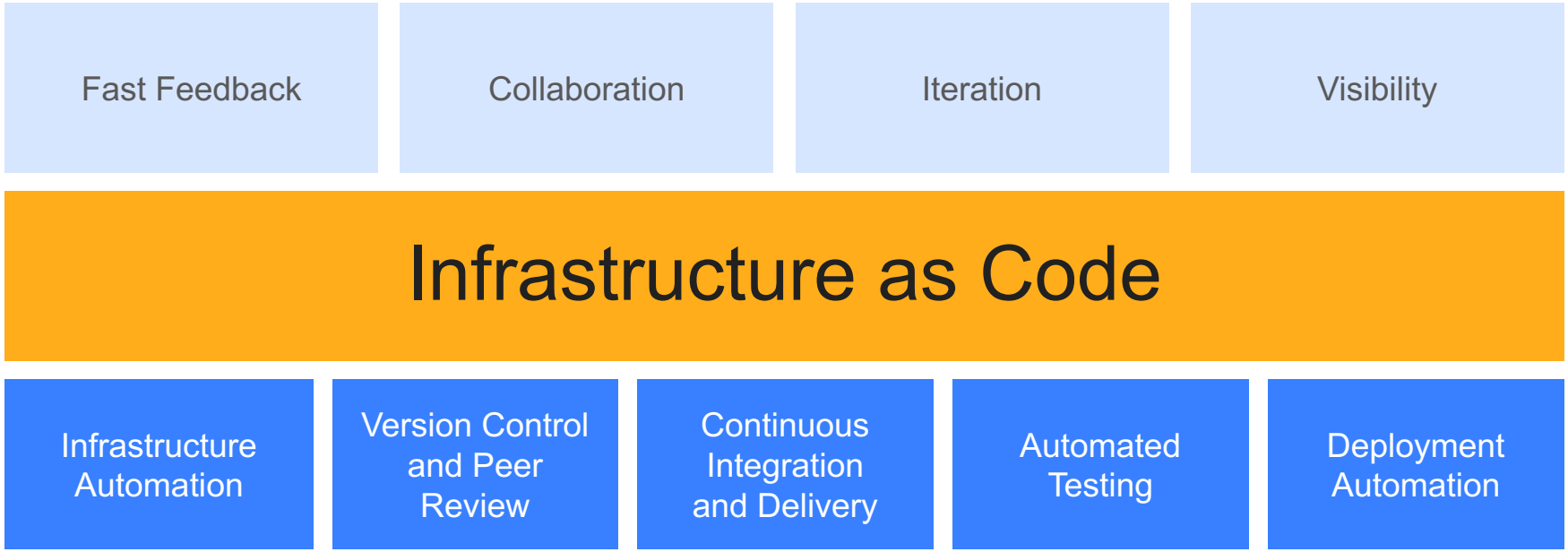
Fundamental for a complete DevOps practice



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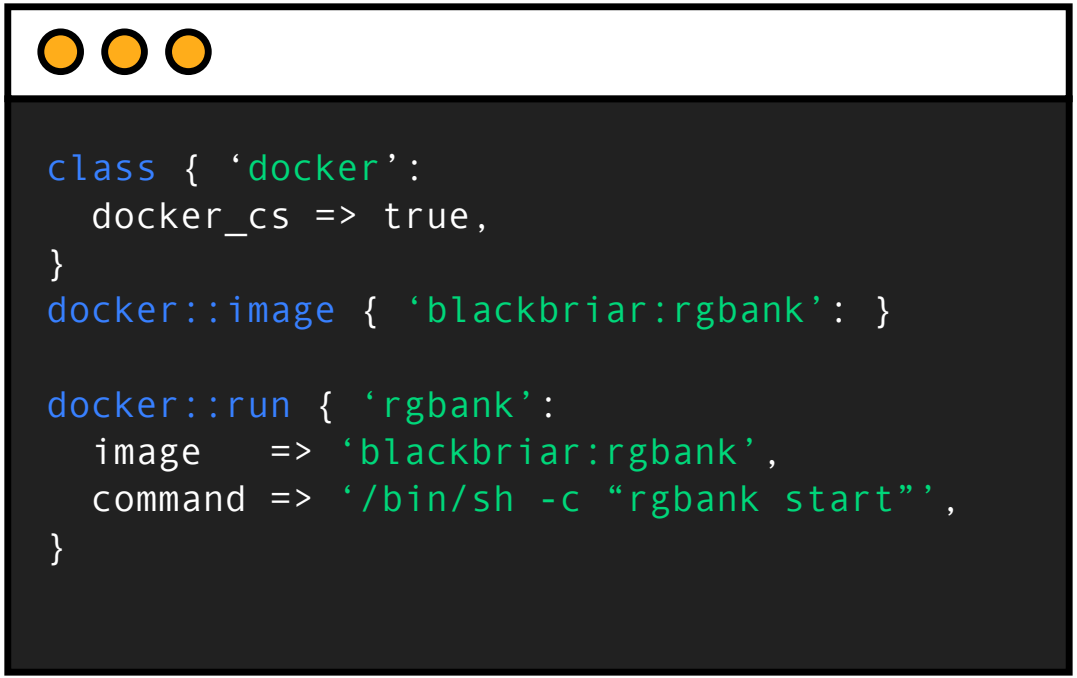
IaC platform: Puppet gives teams a common, model-driven language



```
class { 'docker':
  docker_cs => true,
}
docker::image { 'blackbriar:rgbank': }

docker::run { 'rgbank':
  image   => 'blackbriar:rgbank',
  command => '/bin/sh -c "rgbank start"',
}
```

IaC = Infrastructure as Code

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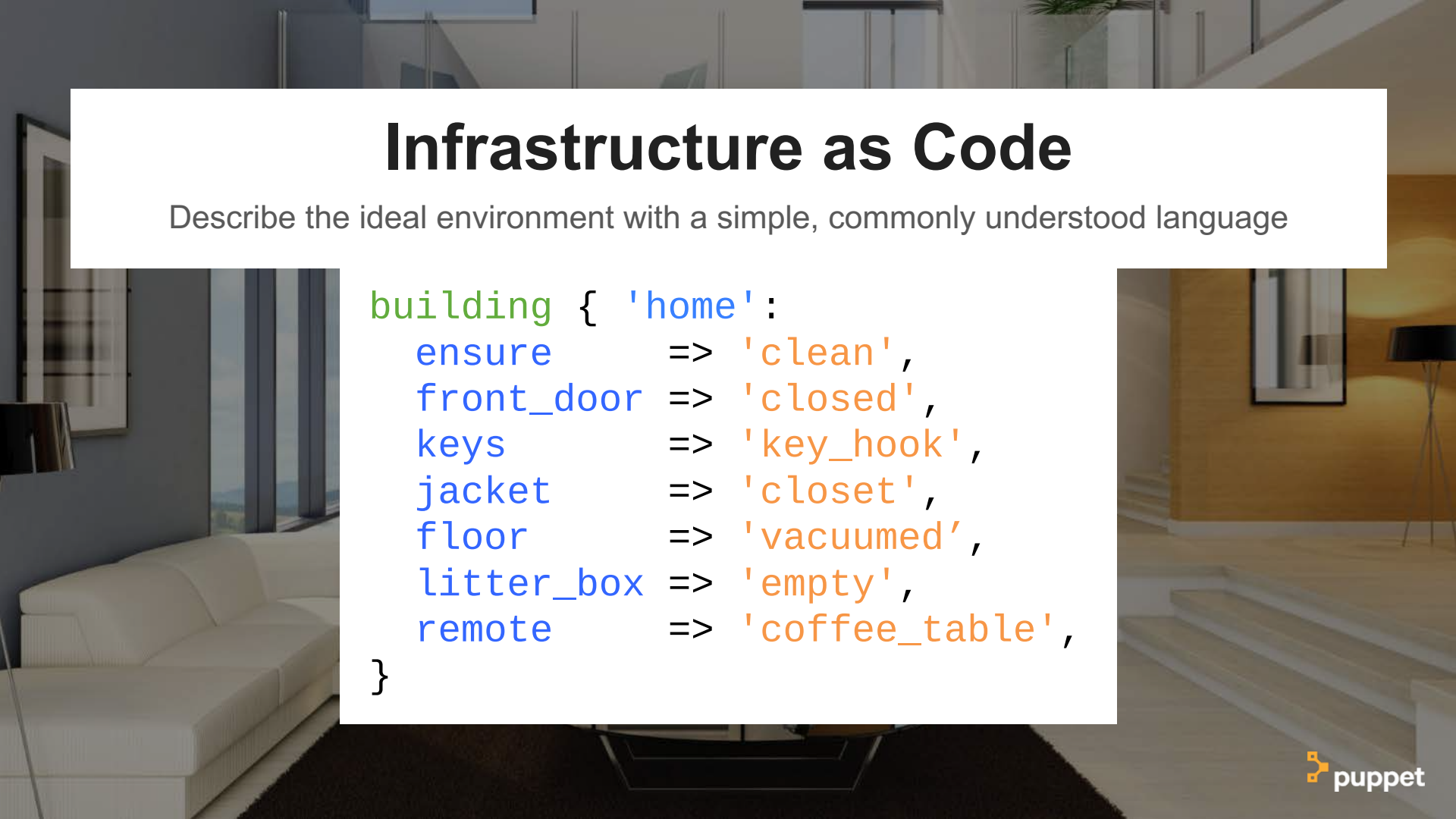
Infrastructure as Code

Describe the ideal environment with a simple, commonly understood language

```
building { 'home':
  ensure      => 'clean',
  front_door  => 'closed',
  keys        => 'key_hook',
  jacket      => 'closet',
  floor       => 'vacuumed’,
  litter_box  => 'empty',
  remote      => 'coffee_table',
}
```



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2017
State of DevOps Report
Presented by:
puppet + DORA
DEVOPS RESEARCH & ASSESSMENT
Sponsored by:
Hewlett Packard Enterprise
splunk>
amazon web services
Atlassian
Electric Cloud
Deloitte.
WAVEFRONT by vmware

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Cloud & Containers

Puppet + Cloud Technology Partners

Consistently provision, configure and manage

Automate the entire lifecycle

Automatically create GCE instances

Launch and run core Puppet Enterprise services

Consistently deploy and configure components*

Provision and enforce fully configured VMs

* 42% of Openstack deployments are managed with Puppet. source

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“Who needs configuration management? We use containers!”

Given a container:

- How was it built?
- How do you run it?
- What is inside it right now?
- When do you rebuild it?

You can either reinvent CM for containers, or apply decades of innovation in CM to solve these problems now.

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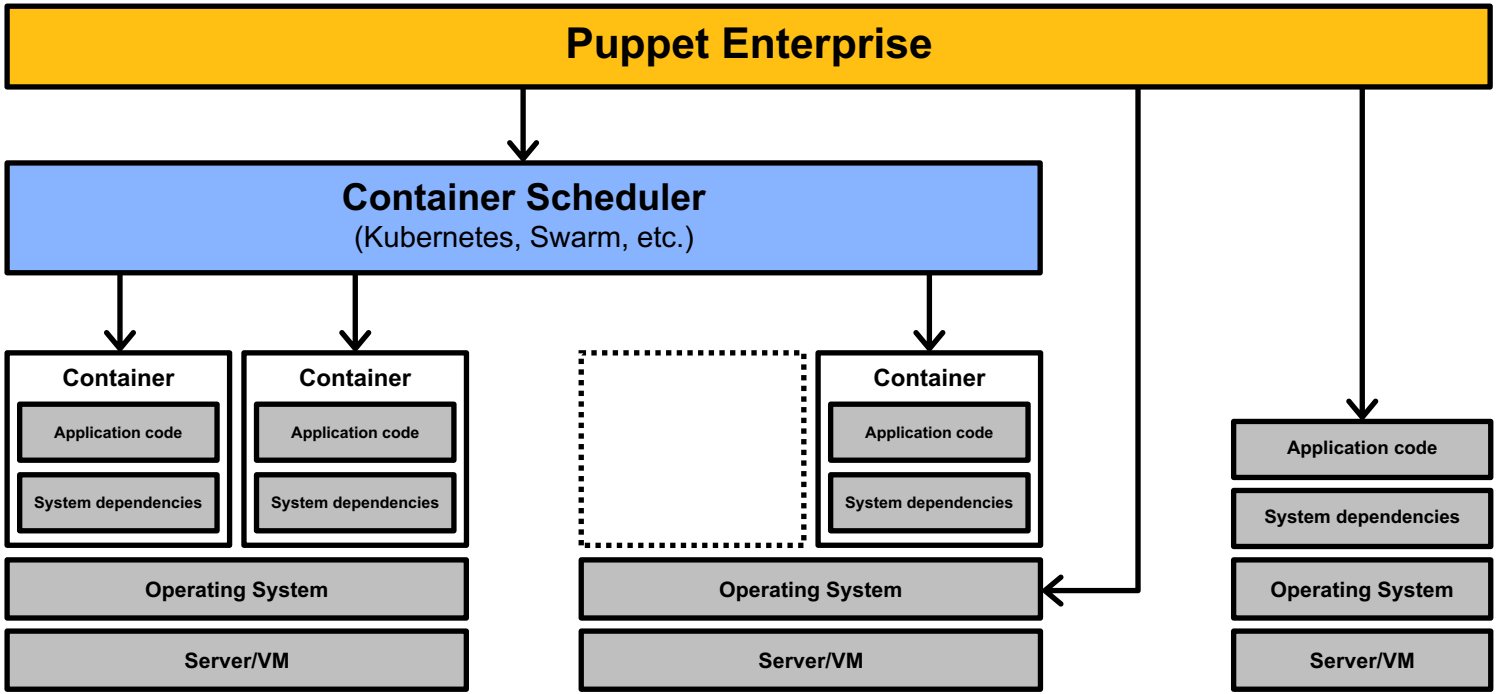
Where Puppet Enterprise Fits



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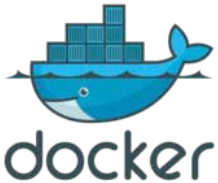
Puppet + Container Tools



Install and configure engine and tools, and automate container build process

Manage pods, replication controllers, services and more

Install manager and frameworks, drive usage across datacenter

Install and manage Consul and automate services

Collect, query, and report on container application metadata

Install and automatically manage rkt, etcd, Flannel and CoreOS