Puppet Enterprise
The shortest path to better software.

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Shout-outs

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#puppetize
Let’s do a poll

Who is new to Puppet?
How many developers are here?
How many sysadmins?
Do you manage:

Linux? Windows? Heterogeneous environment?
Every company is a software company.
It feels like a breaking point.
Change is necessary.
We help great companies become great software companies deliver fantastic experiences to their users provide better software, faster and do it simply, at scale and securely
The common thread

DevOps
Cloud Adoption
Security & Compliance
Application Deployment
DevOps

Move faster without sacrificing stability or security
How do we see DevOps?

Loose and evolving collection of practices

Infrastructure-as-code

Cross-team automation tools

• Automated testing
• Continuous integration
• Continuous delivery

Shared operational pain
2016 DEVOps SURVEY

TAKE THE SURVEY

DevOps delivers results

Survey results from more than 5,000 respondents across 6 continents:

- Increase in code deployment frequency: 30x
- Fewer failures: 60x
- Higher business growth: 50%
Puppet = a proven DevOps platform

Lay the foundation

Deliver faster

Increase productivity
Cloud Adoption

Adopt, unify and manage cloud environments
How do we see cloud adoption?

Cloud adoption drives business

53%

Of organizations believe cloud will help them improve their revenue
Automation in the cloud

Native tools don’t work

Manual approaches / scripts are problematic

Misconfiguration creates risk

= Risk
Puppet = unify physical, virtual, cloud

enforcement & remediation • code consistency • code visibility • security & audit

Puppet Forge

Self-service portal
vmware
serviceNow
CUSTOM

Puppet Master

Orchestrates

Inventory

Configure

Report

Puppet agent

SaaS

PaaS

IaaS

Puppet agent

bare metal
storage
network

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Security & Compliance

Reduce risk, prove compliance
How do we see security & compliance?

Puppet enforces everything here

Where Puppet fits into security & compliance
Puppet = reduce risk, prove compliance

Define, then deploy your desired state, including security and compliance policies

Puppet continually enforces your policies, and automatically remediates drift

Get full traceability, auditing and reporting to quickly and easily prove compliance
Application Deployment

Get applications out the door faster
How do we see application deployment?

Start with core infrastructure and work up:

**Core infrastructure**
- Operating system
- NTP
- DNS
- SSH
- Firewall
- Users
- Groups

**Application infrastructure**
- SQL server
- Tomcat
- WebSphere
- IIS
- MySQL

**Provisioning**
- Bare metal
- Virtual environments
- Cloud
- Containers

**Application orchestration**
- Custom apps
- COTS
- Share services

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Example application

Use Puppet language to model your application

- Services
- Relationships
- Dependencies
- Instances
  - Dev, Staging, Production, etc.

**HTTP**
- App API
- WebSphere
- F5 LB

**Database**
- MS SQL
- Log stash
- SSH

Current Balance

$2015.03

View Transaction History

Online Bill Pay

Account Management
Example application

Puppet Enterprise determines order and deploys your application.
Puppet Enterprise evolution

Looking into the future…
Puppet Enterprise evolution

Puppet Enterprise 3.3
- Web-based installer
- Support for VCS Repo, Windows ACL, Windows PowerShell

Puppet Enterprise 3.7
- Next-gen Puppet Server
- Puppet Server Reporting
- Node Manager
- Role-based access control
- Activity logging

Puppet Enterprise 3.8
- Next-gen Node Manager
- Code Manager
- Razor
- Puppet catalog preview

Puppet Enterprise 2015.2
- New Web UI
- Interactive Node Graph
- Inventory Filtering
- New Unified Agent
- Language updates
- Support for VMware vSphere & Citrix NetScaler

Puppet Enterprise 2015.3
- Application Orchestration
- Support for Microsoft Azure
- File Sync Service
- Token Authentication

Puppet Enterprise 2016.1
- Infrastructure & Application Orchestration
- Dependency Graph
- Code Management enhancements
- Token Revocation
- Splunk & Atlassian HipChat integrations

Jul 2014

Nov 2014

Apr 2015

Jul 2015

Dec 2015

Apr 2016
Gain situational awareness

- Visualize environments & application dependencies
- Automated testing
- New reporting tools
Drive change with confidence

- Orchestrate how and when changes are made
- Automated, repeatable workflows
- Version infrastructure code
From core infrastructure through applications

- Environment graph
- Pre-built modules
Across the lifecycle

- Automated provisioning
- Streamlined node classification workflows
Across all devices, through the stack

Your bridge to the future

CoreOS

docker

kubernetes
Now what?

It’s our resources and community that makes Puppet great
Training

learn.puppet.com
Check out the docs

docs.puppet.com
Make Puppet better

puppet.com/ptp
Get involved

puppet.com/community
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