JOURNEY TO WIDESPREAD AUTOMATION - DRIVING DIGITAL TRANSFORMATION WITH PUPPET AND VMWARE VREALIZE

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Automate how you discover, manage and deliver applications and the infrastructure they run on.
Deliver better software, faster.
Deliver Better Software, Faster

DevOps

Automation
MORE FREQUENT DEPL OYS
5.4% REDUCTION IN IT OPERATIONAL EXPENSE
2.5X
3.1X FASTER DEPLOY SPEED
76% LESS TIME FIXING SECURITY & COMPLIANCE ISSUES

10x  10x  10x  10x  10x

physical | virtual | cloud | containers | “next”
Hard to know what you have
Puppet Discovery

Know what’s running.
- Servers
- VMs
- Containers
- Network devices

No matter where it runs.
- Cloud of choice
- Datacenters

Take action.
- Install Puppet Enterprise agent
- Execute a task
Resource discovery

- Containerized applications
- Traditional applications
- Application services
- Cloud infrastructure
- Traditional infrastructure

Know Where to Start
2

Hard to scale broadly and deeply
Puppet Enterprise

Vendor neutral.
- Any container in any cloud
- Any bare metal or VM server
- Common network devices
- Any operating system

Model-driven and task-oriented.
- Desired-state configuration management
- Simple and orchestrated tasks

Enterprise-grade.
- Team features: RBAC, code mgmt
- Simple: installation / upgrade, console
- Scalability: 100k nodes and beyond
- Workflows: direct change, convergence
- Reporting & Compliance
Create delivery pipelines in minutes.
- Connect, build and test control repos
- Connect, build and test module repos

Control changes across environments.
- Prescriptive deployment policies that automatically create, merge and delete branches
- Rolling deployments, one-click rollbacks
- Set approvals/gates at any stage
- Granular access control and audit trails

Visualize everything.
- Track module dependencies
- View changes across environments
Start Broadly

- Containerized applications
- Traditional applications
- Application services
- Cloud infrastructure
- Traditional infrastructure

Resource discovery
Traditional infrastructure

Cloud infrastructure

Application services

Containerized applications

Resource discovery

Start Deeply

100%
Resource discovery

Traditional infrastructure

Cloud infrastructure

Application services

Traditional applications

Containerized applications

Scale Broad and Deep

100%
3

Dev and Ops still siloed
Deploy any app to any target.
- Containerized or traditional apps
- On-premises or cloud of choice

Batteries included, but swappable.
- Full delivery pipeline functionality
- Integrate with your choice of:
  - Continuous integration tool
  - Source control system
  - ChatOps tool

Full control and visibility.
- Those with permission build, test and promote from dev to test
- Those with permission initiate deploy
- Real-time dashboard
1. Know what you have
2. Scale broadly and deeply
3. Automate application release
Deploy applications faster with Puppet and vRealize Automation (vRA)
Use Cases

Compliance

Automation strategy, save time to GTM

Increase collaboration between teams
What vRealize Automation delivers:

- **Agility** through IT automation
- **Personalization** through governance policies
- **Efficiency** through cost containment
- **Choice** through flexibility
Multi-vendor multi-cloud infrastructure

vRealize Automation

Self-service

Policy-based Governance with Automated Delivery

Infrastructure Services
Application Services
Custom Services

Physical
Virtual
Cloud

Linux
Windows
vmware vSphere
Citrix XenServer
Microsoft Hyper-V
KVM
redhat

vCloud Air
Puppet

Cisco
Dell EMC
HP
vRealize Automation integration with Puppet Multi-Tier with Approval policy
Puppet Enterprise + vRA

**Legacy Challenge**

Day 1  Potential for template sprawl.
Day 1  Error-prone provisioning scripts. Fragile and ad hoc.
Day 2+  Manually update/change VMs once they’re provisioned.
Day 2+  Manually remediating security and compliance issues.

**PE + vRA Solution**

- Simple baseline VM templates.
- Standard and reusable Puppet code from a supported library of content (Forge).
- Automatically update provisioned VMs based on new desired state.
- Ensure VMs are continually security-hardened and compliant.
Puppet Enterprise and vRealize Automation Integration

- Puppet Configuration Language
- vRealize Automation
- Policy-based Governance with Automated Delivery
  - Infrastructure Services
  - Application Services
  - Custom Services
- Self-service
- Drift Remediation
- Configuration
- Ecosystem
  - VMware Cloud Management Marketplace
  - Community
    - Puppet Forge
- Heterogeneous Infrastructure
- Infrastructure Services
- Application Services
- Custom Services

Our approach

We are here

Overview And Demo
- Demonstrate how organizations use & benefit from Puppet
  - ~ 1 – 2 hours

Discovery & Technical Validation
- Know what you have. Conduct technical validation.
  - ~ 16 – 40 hours

Business Justification
- Know where to start. Define key use cases & business value
  - ~ 6 – 12 hours

Business Case Presentation
- Present business case to key stakeholders
  - ~ 1 – 2 hours
Coming up…

Insight workshop – 15th Oct

Discover what it takes to build a strong foundation in Automation & DevOps.

Attend to win:

Five Foundational Practices

- Monitoring and alerting are configurable by the team operating the service
- Deployment patterns for building applications or services are reused
- Testing patterns for building applications or services are reused
- Teams contribute improvements to tooling provided by other teams
- Configurations are managed by a configuration management tool
Proven steps to success:
1. Discover What You Have Continuously
2. Scale Broadly & Deeply,
3. Automate Delivery

Improve agility and reduce the cost of change by eliminating manual processes.

Continuously monitor critical workloads to enforce compliance and security designs.

Provide an automation platform for today and tomorrow that is scalable, secure and auditable