

The logo consists of a red rectangular box with a white border. Inside the box, the words "RED HAT" are written in a smaller, white, sans-serif font above the word "SUMMIT", which is in a larger, bold, white, sans-serif font.

RED HAT
SUMMIT

AUTOMATING RED HAT VIRTUALIZATION WITH CLOUDFORMS AND ANSIBLE

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May 2018

AGENDA

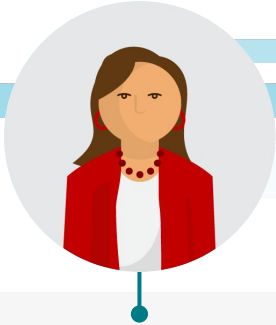
Click to add subtitle

- Introduction and background
- User stories
- Demo's
- Q&A



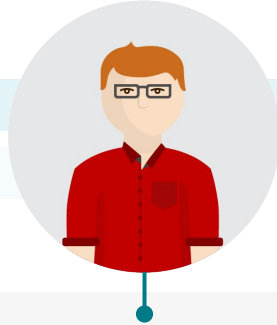
INTRODUCTION and BACKGROUND

NEED TO ADDRESS GREATER CHALLENGES



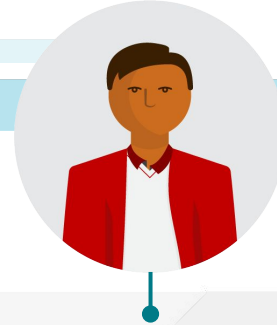
LINE OF BUSINESS

Challenged to deliver services faster, at scale, and more efficiently



DEVELOPERS

Need to develop applications faster with greater productivity



I.T. OPERATIONS

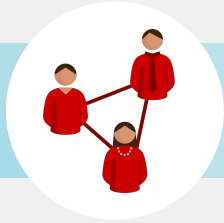
Must provide infrastructure on-demand that scales as needed

NEED TO PROVIDE GREATER VALUE



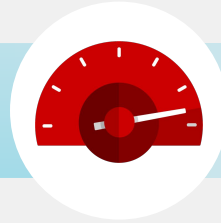
REGAIN CONTROL

- Cost
- Compliance
- Resources



CONNECT EXISTING INVESTMENTS

- Path to the cloud
- Interoperability



ACCELERATE SERVICE DELIVERY

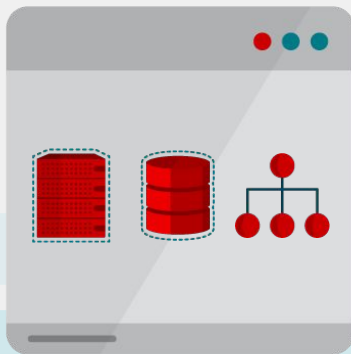
- Stop the need for “shadow IT”
- Push-button configuration



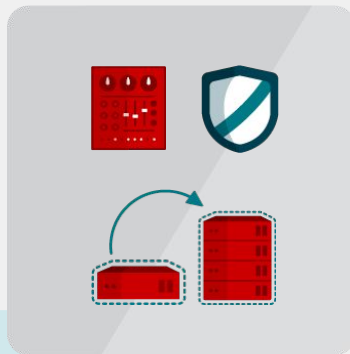
WITHOUT VENDOR LOCK-IN

- What you need when you need it
- No licenses, no CapEx, no contract fine print

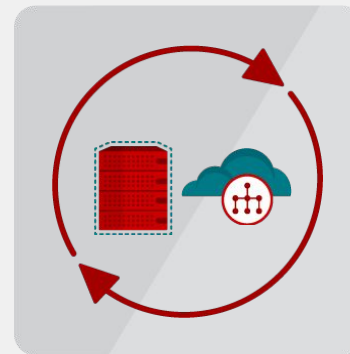
RED HAT VIRTUALIZATION



Centralized Management of virtualized compute, network, and storage resources using the Open Source KVM Hypervisor



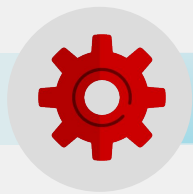
Automated workload management, scalability, and security features for virtualized applications



Engineered to optimize current IT and integrate with future technologies using a RESTful API.

EASY TO OPERATIONALIZE, EASY TO AUTOMATE, EASY ON THE BUDGET, NO VENDOR LOCK-IN

RED HAT CLOUDFORMS



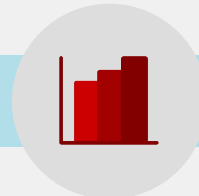
Operational efficiency



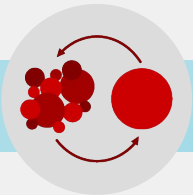
Service health



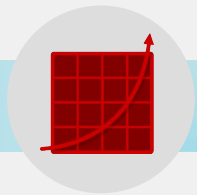
Security & compliance



Financial management



Lifecycle management



Resource optimization

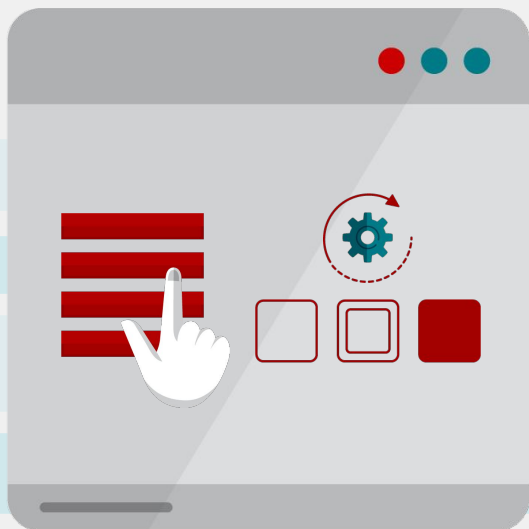


Root-cause analysis



Capacity management

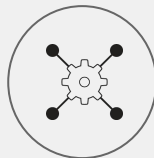
RED HAT ANSIBLE



AUTOMATION MANAGEMENT

▶ Red Hat Virtualization Ansible:

- Ansible roles called from UI
- Ansible based services and policies
- Automation steps can be codified in Ansible playbooks or natively in CloudForms.



Integration to external IT systems allows CloudForms to automate and orchestrate all process steps.

USER STORIES & DEMO'S

LET US TELL A STORY - WITH DEMO'S!

All our hero wants to do is do his job...

Simply and securely

Let's fix this with simple automation:

- Deploy CloudForms
- Create Templates
- Deploy Applications
- Upgrade Clusters
- Automate Security & Compliance



AUTOMATE CLOUDFORMS DEPLOYMENT

FIRST DEMO - Deploying CloudForms on top of Red Hat Virtualization

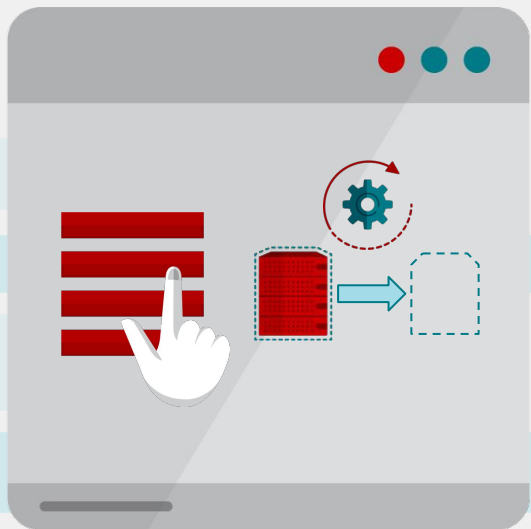


CENTRALIZED REPORTING

- ▶ **Automate** the deployment of the CloudForms appliance on RHV
- ▶ **All** initialization, configuration, and provisioning activities needed for the appliance are handled by Ansible roles

AUTOMATE TEMPLATE CREATION

Repeatable VM deployments from thin templates



STREAMLINE OPERATIONS

- ▶ Ansible performs the “heavy lifting” - download, create, and cleanup
- ▶ Template built on Red Hat Enterprise Linux “cloud image” - already a “purpose built” image

AUTOMATE WORKLOAD DEPLOYMENT

THIRD DEMO - Repeatable VM deployments from service catalog

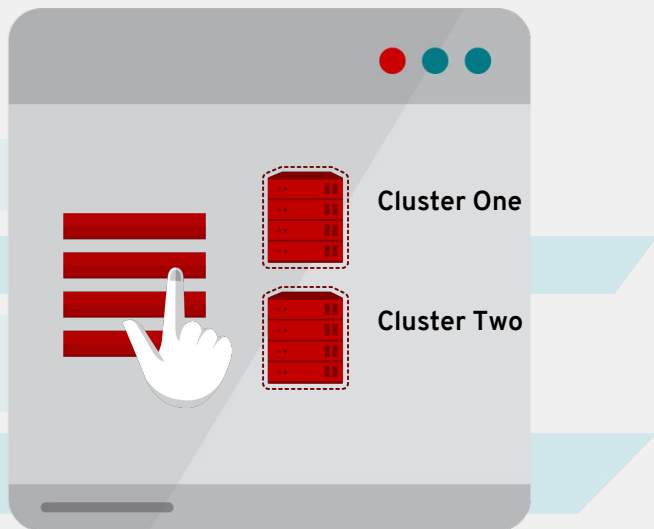


SERVICE DELIVERY CATALOG

- ▶ **Configure** auto-approvals and authorization or route for approval as needed.
- ▶ **Allow** multiple services to be requested at one time via Shopping cart functionality.
- ▶ **Manage** the entire lifecycle of the service - design, provisioning, day 2, compliance/security, financial management, and retirement.

AUTOMATE CLUSTER UPGRADES

FOURTH DEMO - Upgrades without disruption to users or administrators

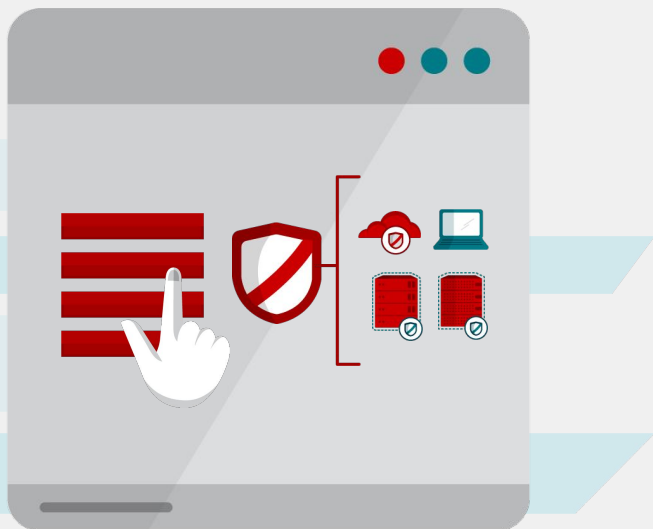


STREAMLINE OPERATIONS

- ▶ “Rolling” upgrades to avoid downtime and disruption
- ▶ CloudForms manages to process, Ansible handles the “heavy lifting”

AUTOMATE COMPLIANCE & SECURITY

FIFTH DEMO - Provide standards without disruption



POLICY AND ACTION

- ▶ **Implement** corporate and federally mandated standards and policies.
- ▶ **Create** policies that can be created and acted upon automatically in a manner that enables users and developers but without being in the way.
- ▶ **Apply** policies based on Smart State data without being disruptive.
- ▶ **Scan** systems with Smart State Analysis to provide policy engine with detailed information.

Q & A | MORE INFORMATION

MORE INFORMATION

Red Hat Virtualization

<https://RedHat.com/RHV>

Red Hat CloudForms

<https://RedHat.com/CloudForms>

Red Hat Ansible

<https://RedHat.com/Ansible>

Product documentation

<https://docs.redhat.com>



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Enterprise virtualization



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Orchestration and automation

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