Infrastructure as Code

I Get By With a Little Help From my Friends

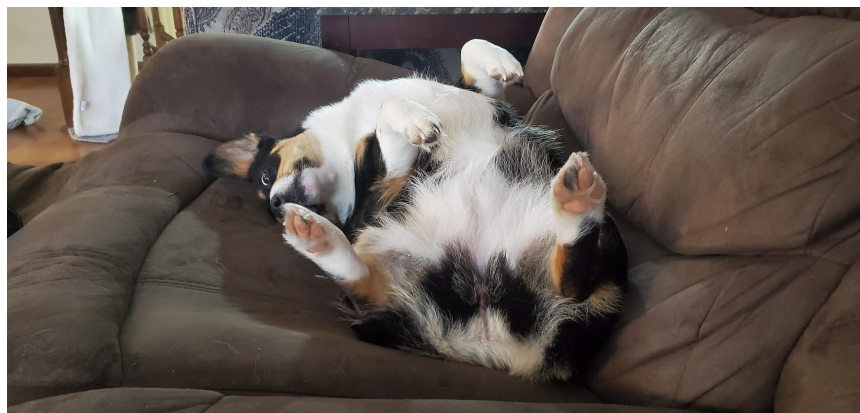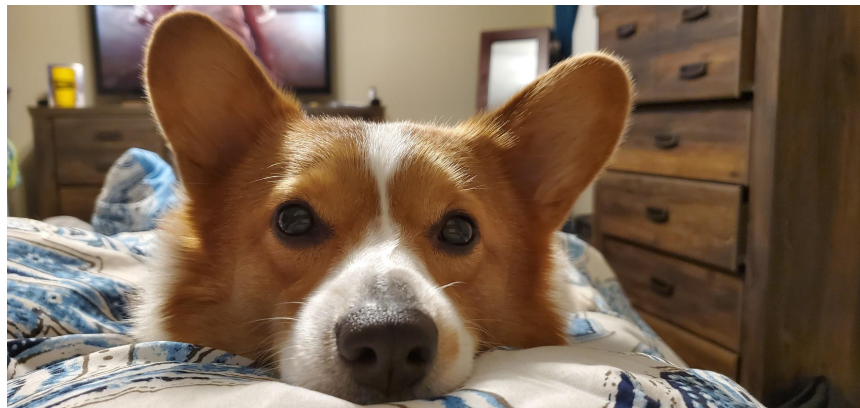Josh Swanson

Platform Specialist Solution Architect

joshswanson@redhat.com

Red Hat

Josh Swanson

joshswanson@redhat.com

Agenda:

- Setting the Stage
    - Ansible Automation Platform
    - Infrastructure as Code
- Telling the Story
    - "Red Hat Enterprises"

Setting the Stage

Why the Ansible Automation Platform?

Red Hat
Ansible Automation Platform
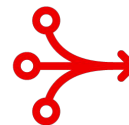
Why the Ansible Automation Platform?

POWERFUL

Orchestrate complex processes at enterprise scale.

AGENTLESS

Integrate easily with nearly any technology across hybrid environments.

SIMPLE

Simplify automation creation and management across multiple domains.

Red Hat

Why use an automation platform?

Red Hat
Ansible Automation Platform

Red Hat

Red Hat
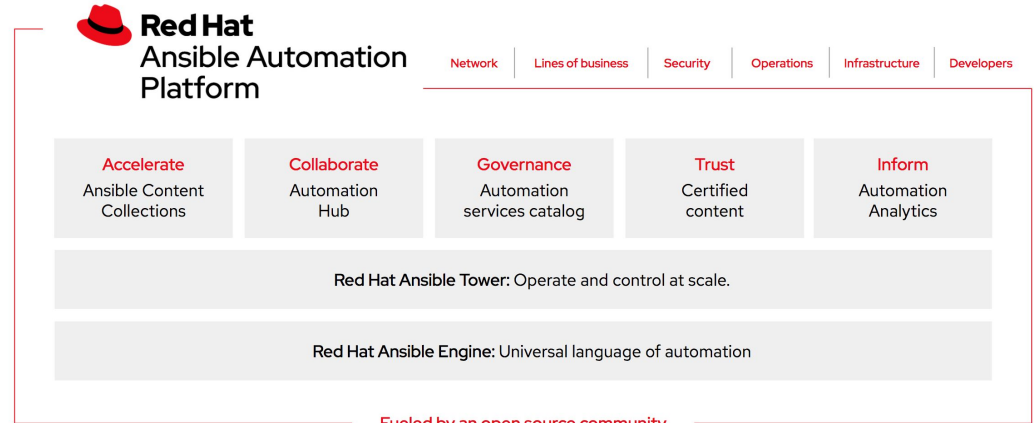Ansible Automation
Platform

Creators

Operators

Consumers

Fueled by an open source community

What Is Ansible Automation Platform?

Ansible Automation Platform

is Red Hat's enterprise automation platform to automate the provisioning and configuration of modern enterprise IT environments, from compute resources, like VMs and containers, to networks, all the way to the application layer.

Red Hat
Ansible Automation Platform

| Network | Lines of business | Security | Operations | Infrastructure | Developers |

| **Accelerate** Ansible Content Collections | **Collaborate** Automation Hub | **Governance** Automation services catalog | **Trust** Certified content | **Inform** Automation Analytics |

Red Hat Ansible Tower: Operate and control at scale.

Red Hat Ansible Engine: Universal language of automation

Fueled by an open source community

Domain Experts   Content Creators   Operators   Users

Automate the deployment and management of your entire IT footprint

Do this...

| Orchestrate | Manage configurations | Deploy applications | Provision | Deliver continuously | Secure and comply |

On these...

Firewalls

Load balancers

Applications
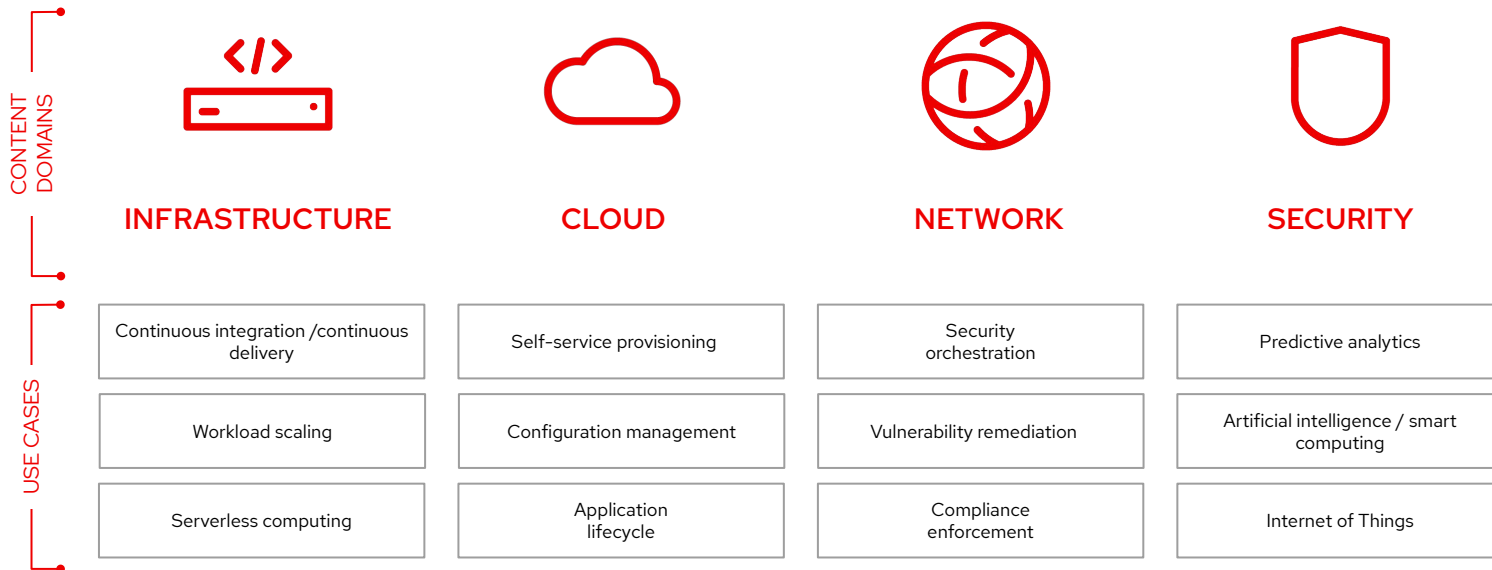
Containers

Clouds

Servers

Infrastructure

Storage

Network devices

And more ...

Red Hat

Automate Everything You Need
Many use cases across multiple domains

CONTENT DOMAINS

USE CASES

INFRASTRUCTURE	CLOUD	NETWORK	SECURITY
Continuous integration /continuous delivery	Self-service provisioning	Security orchestration	Predictive analytics
Workload scaling	Configuration management	Vulnerability remediation	Artificial intelligence / smart computing
Serverless computing	Application lifecycle	Compliance enforcement	Internet of Things

Red Hat

Certified Partner Automation Content
Many use cases across multiple domains

| INFRASTRUCTURE | CLOUD | NETWORK | SECURITY |

Ansible automates the technologies you use

Cloud

AWS
Azure
Digital Ocean
Google
OpenStack
Rackspace
+more

Red Hat Products
RHEL
Satellite
Insights
+more

Virt & Container

Docker
Kubernetes
OpenStack
OpenShift
VMware
+more

Storage
Infinidat
Netapp
Pure Storage
+more

Windows

ACLs
Files
Packages
IIS
Registry
Shares
Services
Configs
Users
Domains
Updates
+more

Network

Arista
Aruba
Bigswitch
Cisco
Ericsson
F5
FRR
Juniper
Meraki
OpenvSwitch
Ruckus
VyOS
+more

Security

Checkpoint
Cisco
CyberArk
F5
Fortinet
Juniper
IBM
Palo Alto
Snort
+more

Monitoring

Dynatrace
Datadog
LogicMonitor
New Relic
Sensu
+more

Devops
Jira
GitHub
Vagrant
Jenkins
Slack
+more

Red Hat

Setting the Stage:
Red Hat Enterprises

Red Hat Enterprises Resource Request
Initiating the Process

Lines of Business
"We need a new SAP HANA database for development and testing. This will directly support business critical functions. Please expedite if possible, we need this by close of business tomorrow."

Josh Swanson
SAP BASIS Administrator

Red Hat Enterprises Resource Request

Reviewing the Last Time this Process was Run

Josh Swanson
SAP BASIS Administrator

- 5 total teams involved:
  - Storage
  - Network
  - Virtualization
  - RHEL Admin/Ops
  - Security
- 8 tickets to those teams in ServiceNow
  - Average closure time of 2 business days
  - Total time: 16 days
- Another 4 days for my portion
  - Bit of re-work needed
  - Have to be careful: re-requesting resources would take another ~16 business days
- The business wants this done by tomorrow EOD...

Red Hat Enterprises Key Stakeholders

It takes a village to raise a server

Network

Mike McRill
The Null Route, Gigaessi, Breaker of Bonds, Father of Packets and the Rightful King of the Seven Clouds

Operating System

Jon McDonald
Red Hat Enterprise Linux Architect

Security

Dean Peterson
The Greatest Security Architect of All Time

Storage

Laine Minor
Storage Architect

Virtualization

Ryan Nix
VMware Architect

SAP BASIS

Josh Swanson
SAP BASIS Administrator

Red Hat Enterprises Provisioning Workflow
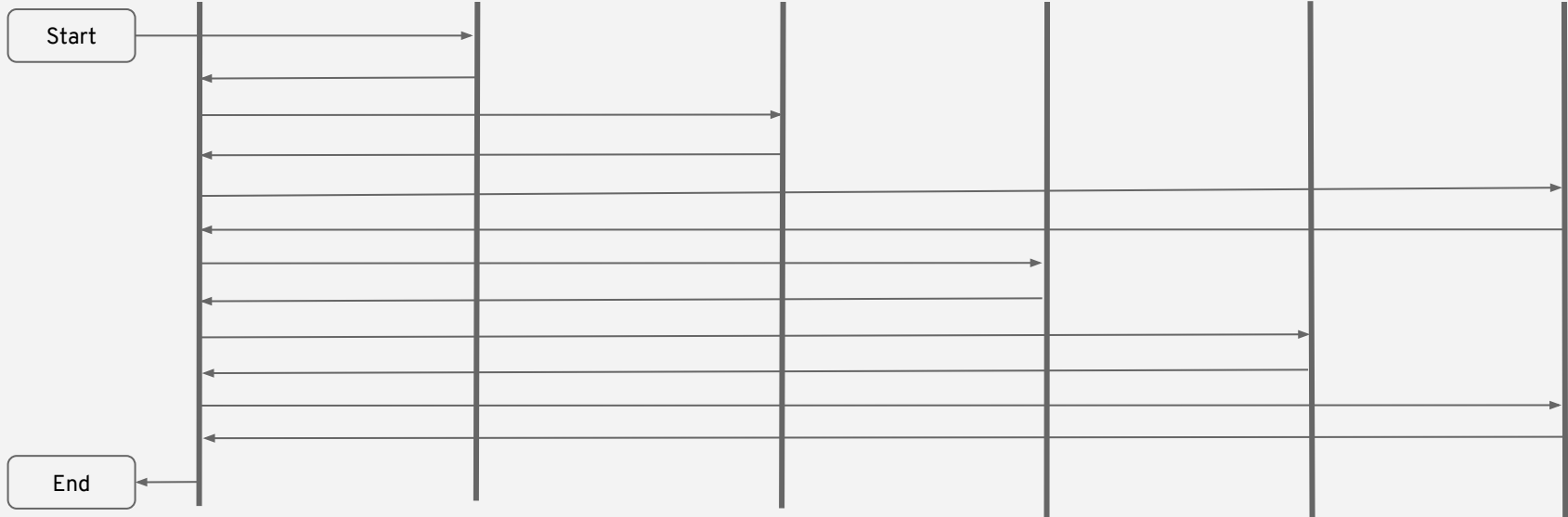
It takes a village to raise a server

Red Hat Enterprises Key Stakeholders

On the Phone

Network

Mike McRill

The Null Route, Gigaessi, Breaker of Bonds, Father of Packets and the Rightful King of the Seven Clouds

SAP BASIS

Josh Swanson

SAP BASIS Administrator

Red Hat Enterprises Provisioning Workflow

Revised Workflow With The Ansible Automation Platform
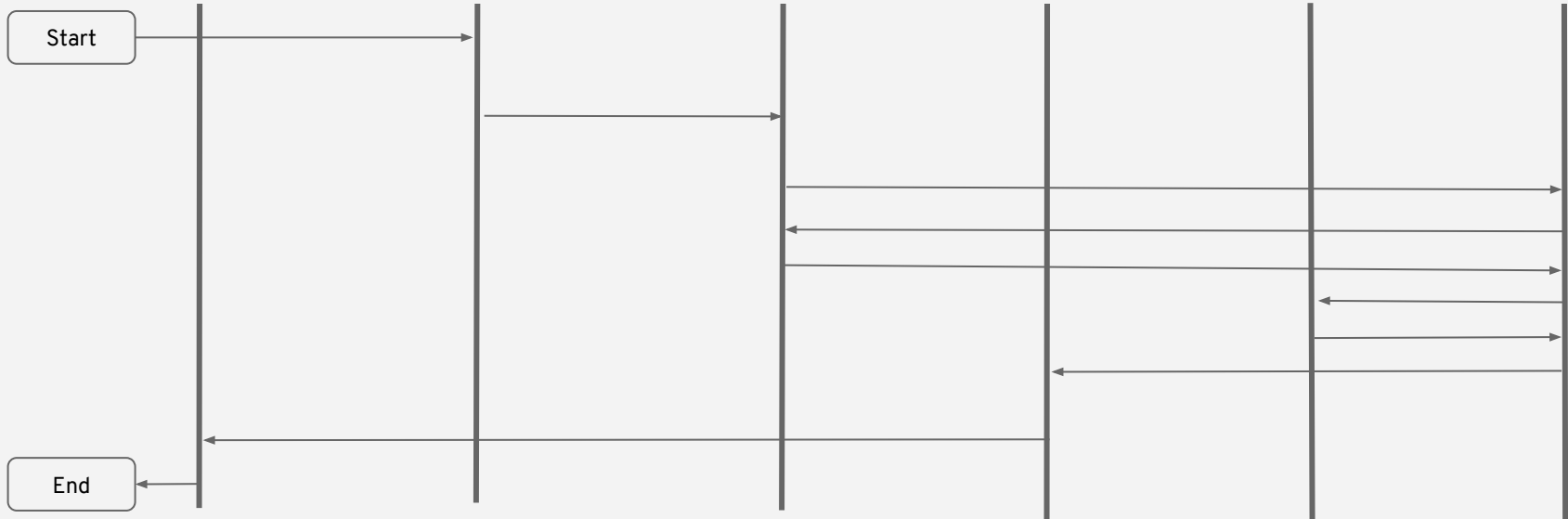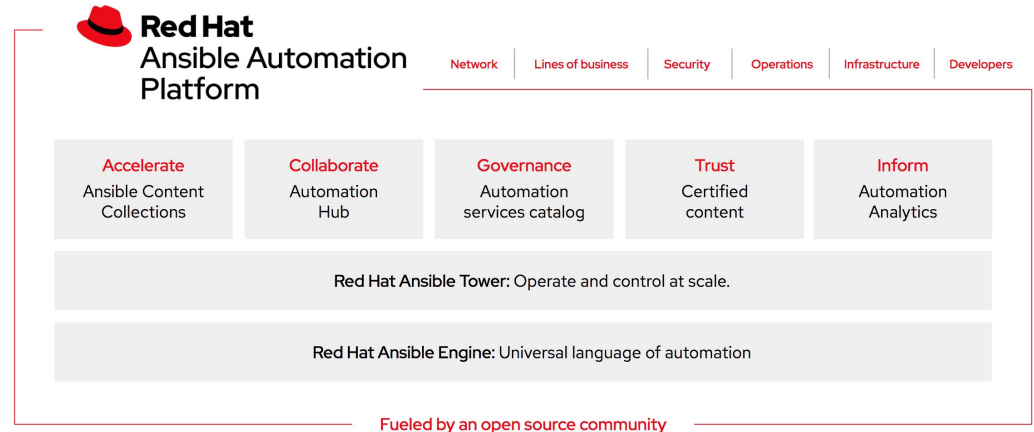
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Thank you!

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