OPERATIONS AND ATOs: AS EASY AS ORDERING PIZZA

Technology Should Be That Simple

Ted Brunell
Principal Solution Architect
Chief Architect, DoD Programs
May 9, 2018
MY BIOGRAPHY

- 6.5 years at Red Hat
- United States Marine Corps (‘88-’08)
- Oakland Raiders Football
- My favorite food is PIZZA!
MY BIOGRAPHY

- 6.5 years at Red Hat
- United States Marine Corps (‘88-'08)
- Oakland Raiders Football
- My favorite food is pizza!

...and this talk is just before lunch is served.
SIX WAYS TO MAKE OPERATIONS MORE LIKE ORDERING PIZZA

- Deploy API-driven infrastructure
- Plan for capacity utilization
- Implement a self-service portal
- Enforce policy and governance
- Speed processes with automation
- Maintain configuration accuracy
API-DRIVEN INFRASTRUCTURE

DEVELOPER TOOLS
- Red Hat JBoss Developer Studio
- Red Hat OpenShift Container Local

APPLICATIONS AND BUSINESS PROCESSES
- Red Hat JBoss BPM Suite
- Red Hat JBoss BRMS
- Red Hat JBoss FUSE
- Red Hat JBoss A-MQ

MIDDLEWARE AND APPLICATION SERVICES
- Red Hat JBoss Data Grid
- Red Hat JBoss Data Virtualization
- Red Hat JBoss Application Platform

CONTAINER PLATFORMS
- Red Hat OpenShift Container Platform

INFRASTRUCTURE SOFTWARE
- Red Hat Enterprise Linux
- Red Hat Enterprise Linux Atomic Host
- Red Hat Storage
- Red Hat OpenStack Platform
- Red Hat Virtualization

PHYSICAL AND CLOUD INFRASTRUCTURE

SECURITY & MANAGEMENT
- Red Hat Registry
- Red Hat Insights

ANSIBLE by Red Hat
- Red Hat Satellite
- Red Hat CloudForms

#redhat #rhsummit
PLAN FOR CAPACITY
SELF-SERVICE PORTAL

- Order and deploy workloads
- Include governance
- Maintain control
- Convenient for operations and the user
SPEED UP PROCESSES WITH AUTOMATION

- Reduce human errors
- Ensures quality through standardization
- Smooth = Faster production
- Increases delivery speed
- Flexibility to work with multiple systems
MAINTAIN CONFIGURATION ACCURACY
SECURITY AND CONTINUOUS COMPLIANCE

Simple ideas to keep in mind.

- Compliance is not optional
- Actively monitor security controls to ensure effectiveness
- Compliance methods should be repeatable and non-specialized
- Implement a cost-effective and flexible solution
CONFIGURATION DRIFT
Avoid “create your own” configurations

- Occurs when configuration accuracy is lost
- Has the potential to create or expose vulnerabilities
- Establish a baseline and test against it
- Results in loss of:
  - Customer trust
  - Revenue
  - Positive public image
CONTINUOUS COMPLIANCE

The key to gaining and maintaining an ATO

- Configuration Management systems
- Automation capabilities
- Security Content Automation Protocol (SCAP)
- Lifecycle and Patch Management
THANK YOU

plus.google.com/+RedHat
linkedin.com/company/red-hat
facebook.com/redhatinc
twitter.com/RedHat
youtube.com/user/RedHatVideos