

Touchless Patching with Satellite and Ansible

Automated Content Management and System Patching

Brad Krumme Solutions Architect



A Slightly Different Kind of Demonstration

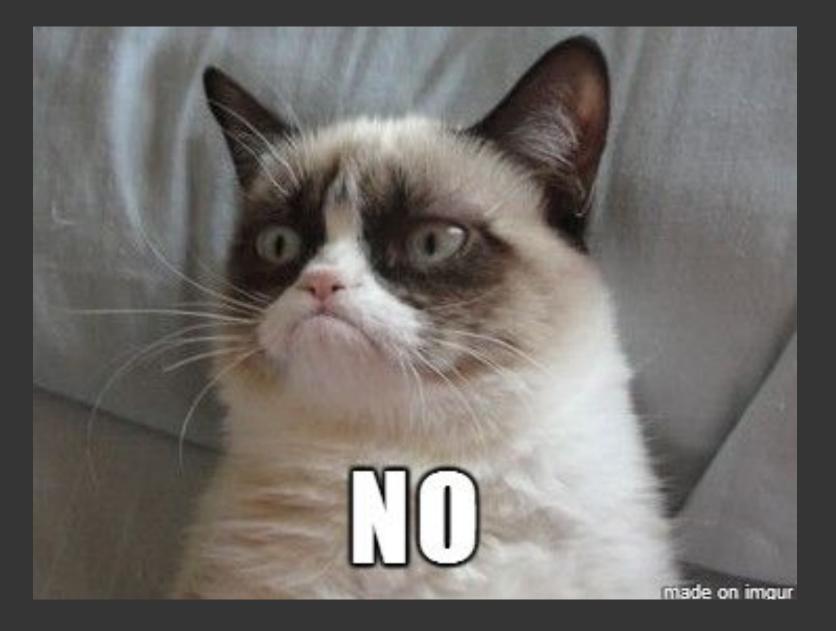




Patch Management Without Automation...

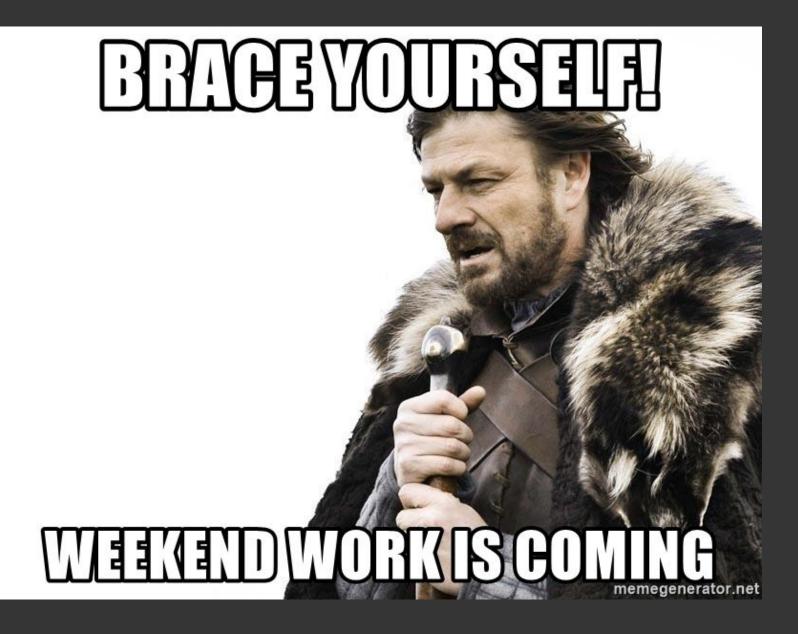


What the business says when operations wants to patch systems...





What this means for operations teams...



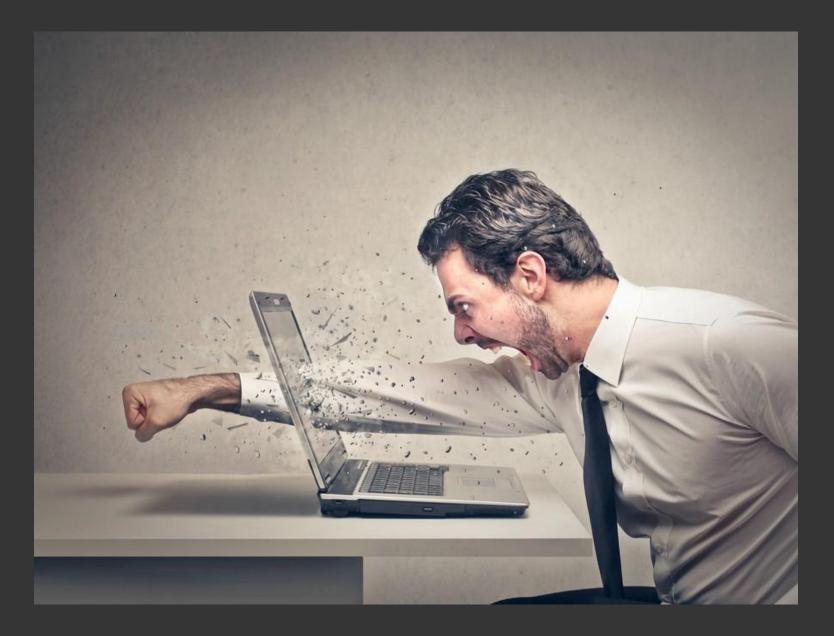


What happens when something doesn't work right...





How operations teams feel about this...





How operations looks to the business...





Patch Management **With** Automation...



What the business says when operations wants to patch systems...





What this means for operations teams...





What happens when something doesn't work right...





How operations looks to the business...





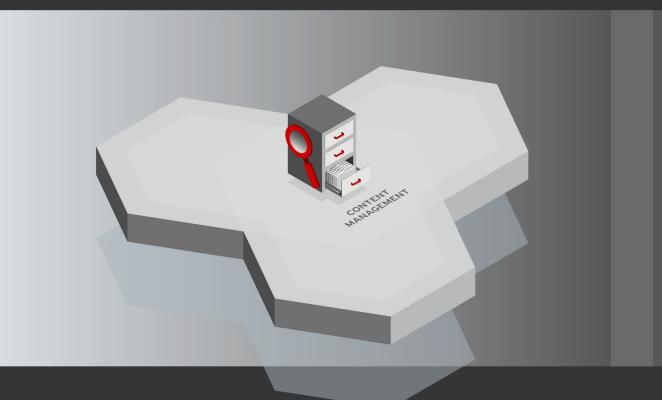
How We Make Patch Management Touchless







Content Management



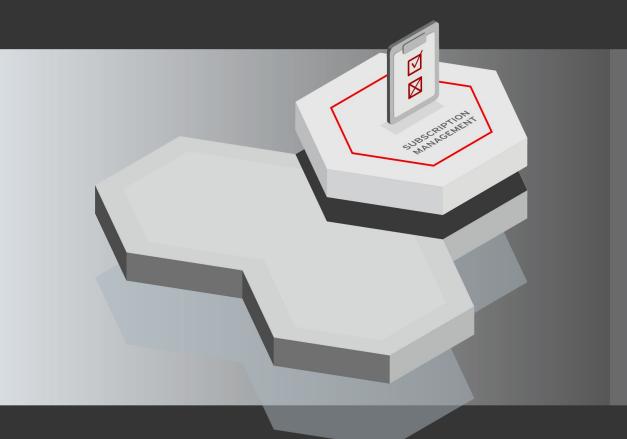
Content Repository any type of content made available to any host

Curation of content prior to distribution

Distribution of content as close as possible to the end point.



Subscription Management



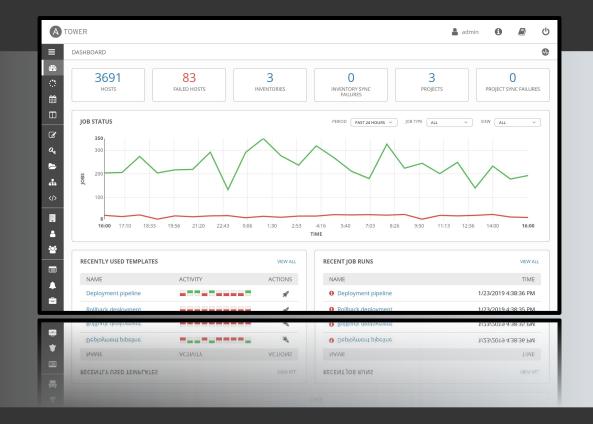
Centrally manage subscription usage

Maintain accurate inventory and utilization information

Report on subscription consumption



Red Hat Ansible Automation Platform



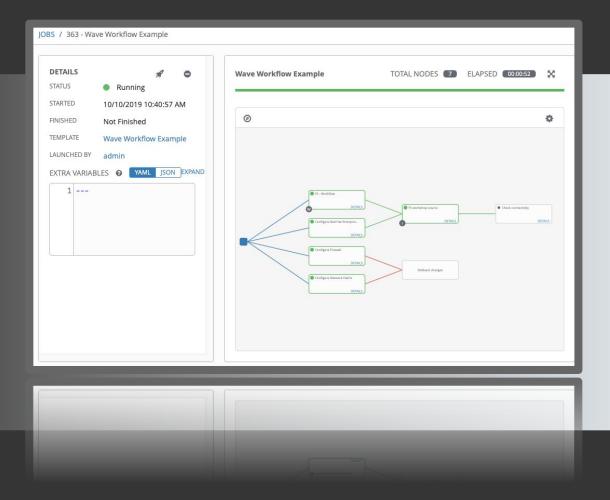


Workflows

Create powerful, holistic automation workflows in Ansible Tower

Orchestration is achieved by linking Job Templates

Approvals built into the Workflows





Schedules

Execute Job Templates and Workflows at a specified time

Repeat scheduled Jobs with flexible timing

Activate and Deactivate schedules when requirements change

A TOWER				🛔 admin	A 0	0		ტ
=	SCHEDULES							
views	SCHEDULED JOBS 13							
jobs	SEARCH	Q KEY						
🛗 Schedules		Q KET						
My View	NAME 🗢	TYPE A	NEXT RUN 🗢				ACTIONS	
RESOURCES	Satellite - Promote DemoOrg Content Views to Testing	Playbook Run	3/25/2021 10:00:00 AM			de la	Ê	
🕼 Templates	Satellite - Promote DemoOrg Content Views to Production	Playbook Run	3/25/2021 12:00:00 PM			ø	Ê	
Credentials	Satellite - Sync DemoOrg Products	Playbook Run	3/20/2021 12:00:00 AM			de la	Û	
Projects	Satellite - Promote DemoOrg Content Views to Development	Playbook Run	3/25/2021 8:00:00 AM			de la	Ê	
A Inventories	Satellite - Clean Up DemoOrg Unused Content Views	Playbook Run	3/20/2021 12:00:00 PM			ø	Ê	
Inventory Scripts ACCESS	Satellite - Publish DemoOrg Content Views	Playbook Run	3/21/2021 12:00:00 AM			ø	Ê	
. Organizations	Cleanup Expired OAuth 2 Tokens	Management Job					Ē	
🚨 Users	Cleanup Expired Sessions	Management Job				ø	Û	
🐸 Teams	Cleanup Activity Schedule	Management Job	3/23/2021 2:27:22 PM			ø	Û	
ADMINISTRATION	Cleanup Job Schedule	Management Job	3/21/2021 2:27:22 PM			ø	Ê	
Credential Types	Patching - Apply All Updates to DemoOrg Production Hosts and Reboot	Workflow Job	3/25/2021 12:30:00 PM				Ê	
Management Jobs	Patching - Apply All Updates to DemoOrg Dev Hosts and Reboot	Workflow Job	3/25/2021 9:00:00 AM			ø	Ê	
Instance Groups	Patching - Apply All Updates to DemoOrg Testing Hosts and Reboot	Workflow Job	3/25/2021 11:00:00 AM			ø	Ê	
Applications Settings							ITEMS 1	- 13
	_	_	_	_				
🔞 Applications								



Notifications

Multiple Notification Plugins allow you to choose where notifications will be sent

Assign Templates to your most critical Jobs and Workflows

Send a notification based on Start, Success, or Failure

exerced tranil * NAME Beneral tranil * TWE Email Choose alype Pagerduty Pagerduty Pagerduty Pagerduty Email Commonsition Same Customate Messades Customate Messades Customate Messades Construction Statich Customate Aligned Statich <t< th=""><th></th></t<>	
<pre>* NAME DESCRIPTION * ORGANIZATION General Email * TYPE Email Grafana IRC PASSWOID * HOST Stroppmall.com * HOST Stroppmall.com * HOST Stroppmall.com * Stro</pre>	
General Email Q Default * TYPE Email * HOST Brail * HOST Setting and com Brail * HOST Setting and com Brail * HOST Setting and com Brail * HOST * HOST	201
s mal Choose a spe Email Choose Email Ema	er 1
s mal Choose a spe Email Choose Email Ema	
s choose a type frail Crafana frie SHOW frail Crafana frie SHOW fr	
Grafana **Kosi *	
se Grafana IRC Mattermost. Pagerduly Theory C Mattermost. Pagerduly Theory C Mattermost. Pagerduly Theory C Sao CustoMize MessAges. CustoMize M	
ser los sorpe ser los sorpe ser los sorpe Non	om
Scrpt Nuttermot bradkrumme@gnal.com 587	
Pageduty on Intercent So Intercent State Intercent State Intercent Intercent <td></td>	
Types	
Types	
Typer arc loss arc loss broups arc loss broups brou	
Trives Tops Tops Tops Tops Tops Tops Tops Top	
Type a concel rs conc	
nr jobs Ourps SEARCH O, KEY NAME * TYPE ©	
NOTIFICATION TEMPLATES NOTIFICATION TEMPLATES 13 SEARCH Q. KEY NAME * TYPE \$	CANCEL
NOTIFICATION TEMPLATES Q KEY SEARCH Q KEY NAME * TYPE *	
SEARCH Q KEY NAME ↑ TYPE ↓	
	۸ ۵ ها
	۵ ۵ ک ۷ ت ۲ ت
	۸ ۵ ها
	A 2
INTURICATION TEMPLATES NOTIFICATION TEMPLATES SEARCH NAME TYPE	ult

The Plumbing Under The Covers (showing the Satellite & Ansible Tower setup)



Extra Resources

Brad's Satellite Management Repository: <u>https://github.com/bpkrumme/satellite_management</u>

Satellite Inventory Plugin: <u>https://docs.ansible.com/ansible-tower/latest/html/userguide/inventories.html#ug-source-satellite</u>

Ansible Tower Scheduling: https://docs.ansible.com/ansible-tower/latest/html/userguide/scheduling.html

Ansible Tower Notifications: https://docs.ansible.com/ansible-tower/latest/html/userguide/notifications.html

Ansible Tower Workflows: https://docs.ansible.com/ansible-tower/latest/html/userguide/workflows.html



24



Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

in linkedin.com/company/red-hat

f facebook.com/redhatinc

youtube.com/user/RedHatVideos

_

♥ twitter.com/RedHat

