



Red Hat

Ansible Automation
Platform

ANSIBLE AUTOMATES

Automation Analytics

Bill Nottingham

Senior Principal Product Manager

Anna Nofle

Product Marketing Manager



What we're talking about today:

What is Automation Analytics?

What can it do?

How do I enable it?

What is the Ansible Automation Platform?

- Supported Ansible Engine
- Supported Ansible Tower
- Network Automation content
- Security Automation content (new)
- **Collections** - supported through Tower -- **NEW**
- **Automation Hub** (new on cloud.redhat.com) -- **NEW**
- **Automation Analytics** (new on cloud.redhat.com) -- **NEW**

(More when new services will be released in 2020)

The background features a light gray grid of small dots. On the left and right sides, there are large, faint, concentric circles in shades of gray, creating a subtle circular pattern.

What is Automation Analytics?

Automation Analytics

What is it?

- SaaS (Software as a Service) on cloud.redhat.com
- Analytics for all Ansible Tower clusters for an enterprise
- Includes:
 - Visual Dashboard
 - Health Notifications
 - Organization Statistics



Automation Analytics

Included with your Red Hat Ansible Automation Platform subscription

Discover

Reveal most used Ansible Playbooks and modules from a intuitive dashboard

Inform

Stay informed with relevant health notifications for your Ansible Automation

Engage

Visualize how organizations consume and use automation across an enterprise

Provides valuable data to help an organization measure success for their Automation

Why did we do it?

- Customers running Ansible in multiple environments needed to look across multiple Tower environments
- Answer questions like: If I've given automation access to people, are they actually using it?
- *In the future:* Provides opportunities for chargeback
- *In the future:* help show ROI of automation. Who's using it, what are they doing, how much time are they saving?

The background features a light gray dot grid pattern. On the left side, there are several overlapping, semi-transparent concentric circles in shades of gray. On the right side, there are also several overlapping, semi-transparent concentric circles in shades of gray, mirroring the design on the left.

What can it do?

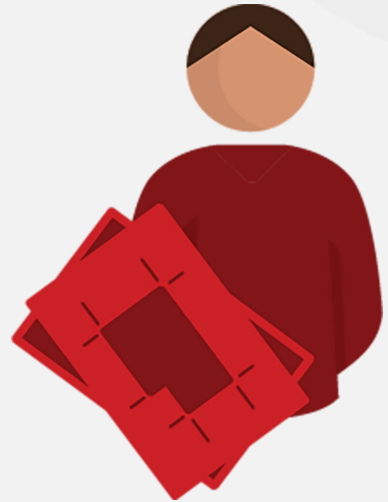
Automation Analytics

Enabling an Automation Center of Excellence

View information about automation health, usage and performance across your enterprise.

Gain information about automation in your enterprise:

- Which organizations are using the most automation?
- Utilization rates
- Enterprise-wide success and failure rates for automation

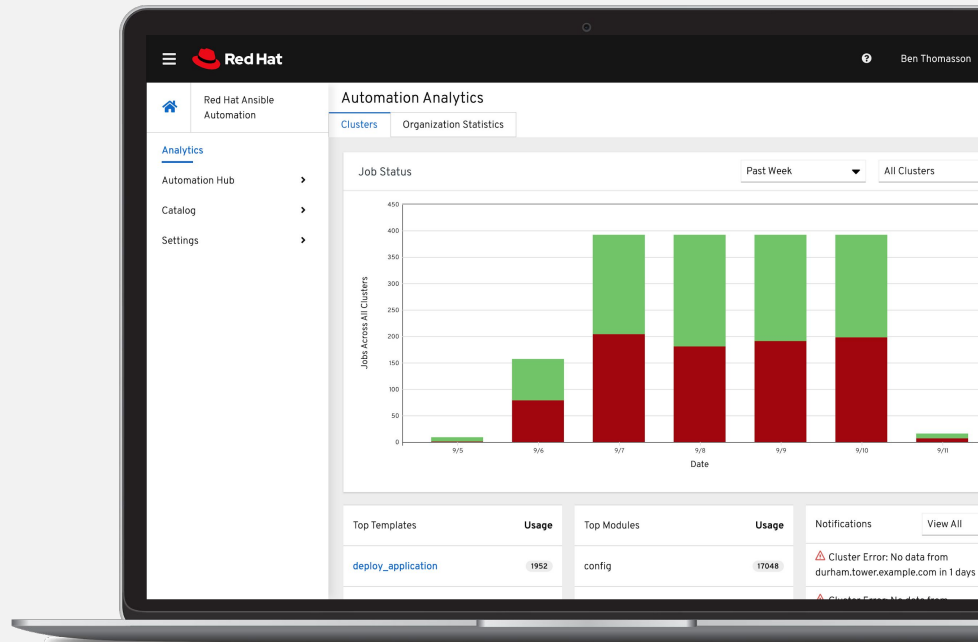


Analytics Dashboard

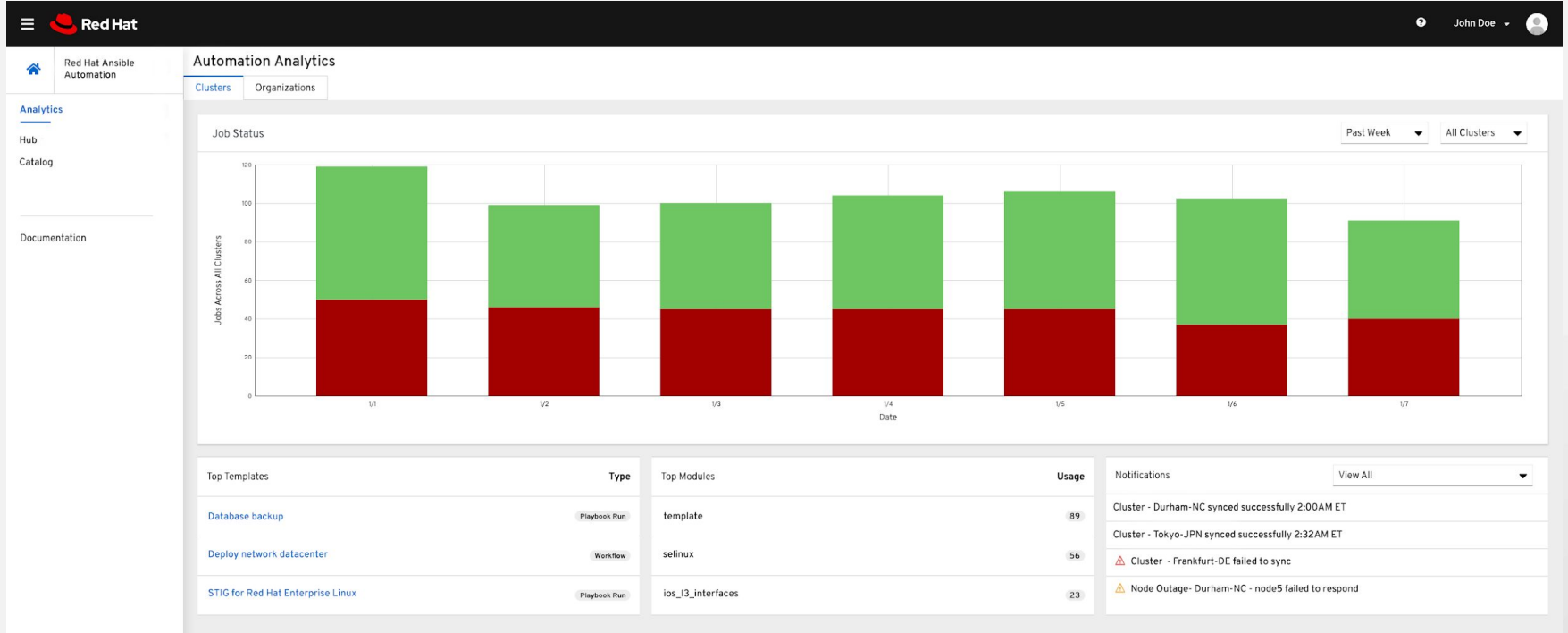
Analytics Dashboard

Information across all clusters
for an enterprise:

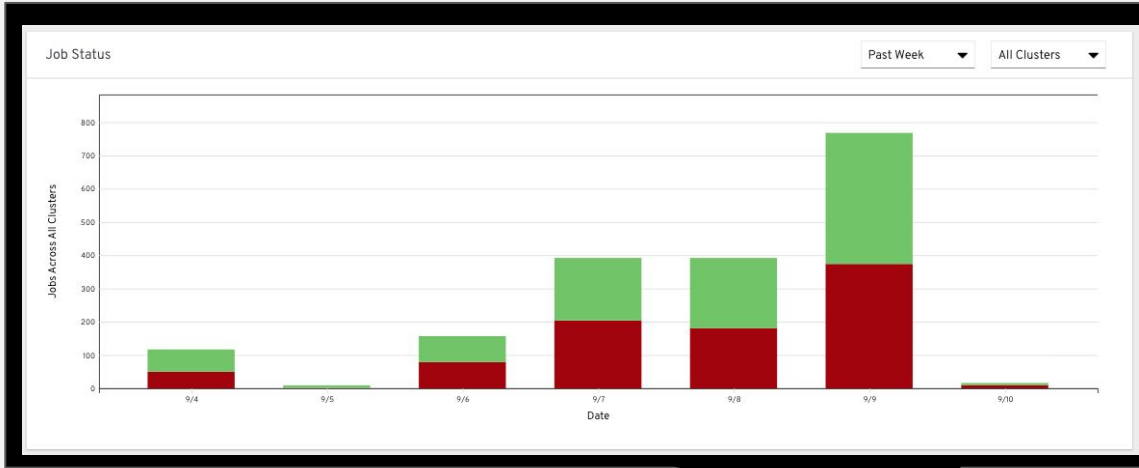
- Job Status graph
- Top Job Templates
- Top Modules
- Notifications



Analytics Dashboard



Job Status over time



The screenshot shows the Red Hat Automation Analytics interface. The main chart is a stacked bar chart titled 'Job Status' showing 'Jobs Across All Clusters' over dates from 9/4 to 9/10. The chart shows a significant peak on 9/9. Below the chart is a table of top templates.

Top Templates	Type	Top Modules	Usage	Notifications
Database backup	Platform:Ans	template	185	Cluster - Durham-NC synced successfully 2:05AM ET
Deploy network datacenter	Workflow	arkiva	156	Cluster - Tokyo-JPN synced successfully 2:32AM ET
STIG for Red Hat Enterprise Linux	Platform:Ans	ins_3_interfaces	123	Cluster - Frankfurt-DE failed to sync Node Outage: Durham-NC - nodes failed to respond

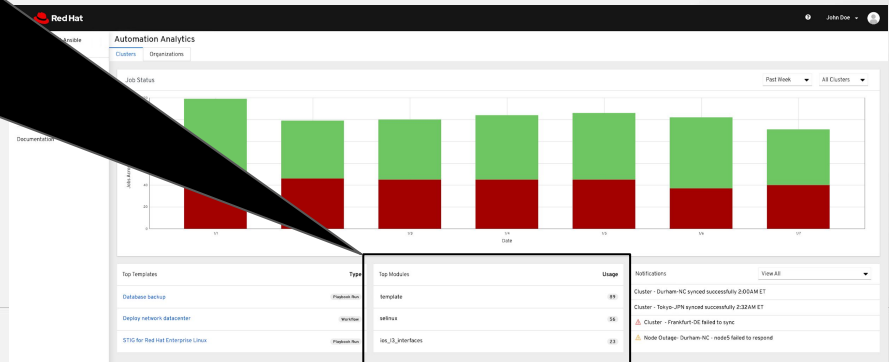
Top Job Templates

Top Templates	Usage
deploy_application	1948
verify_database	422
verify_network	422
verify_cloud_deployment	422
deploy_acl	94



Top Modules

Top Modules	Usage
config	16968
ios_config	13954
ec2_group	12848
na_ontap_net_vlan	602
file	497



Health Notifications


Health Notifications


- Cluster is down
- Node (within cluster) is down
- Last time data was updated
- Near license count

Notifications View All

Cluster - Durham-NC synced successfully 2:00AM ET

Cluster - Tokyo-JPN synced successfully 2:32AM ET

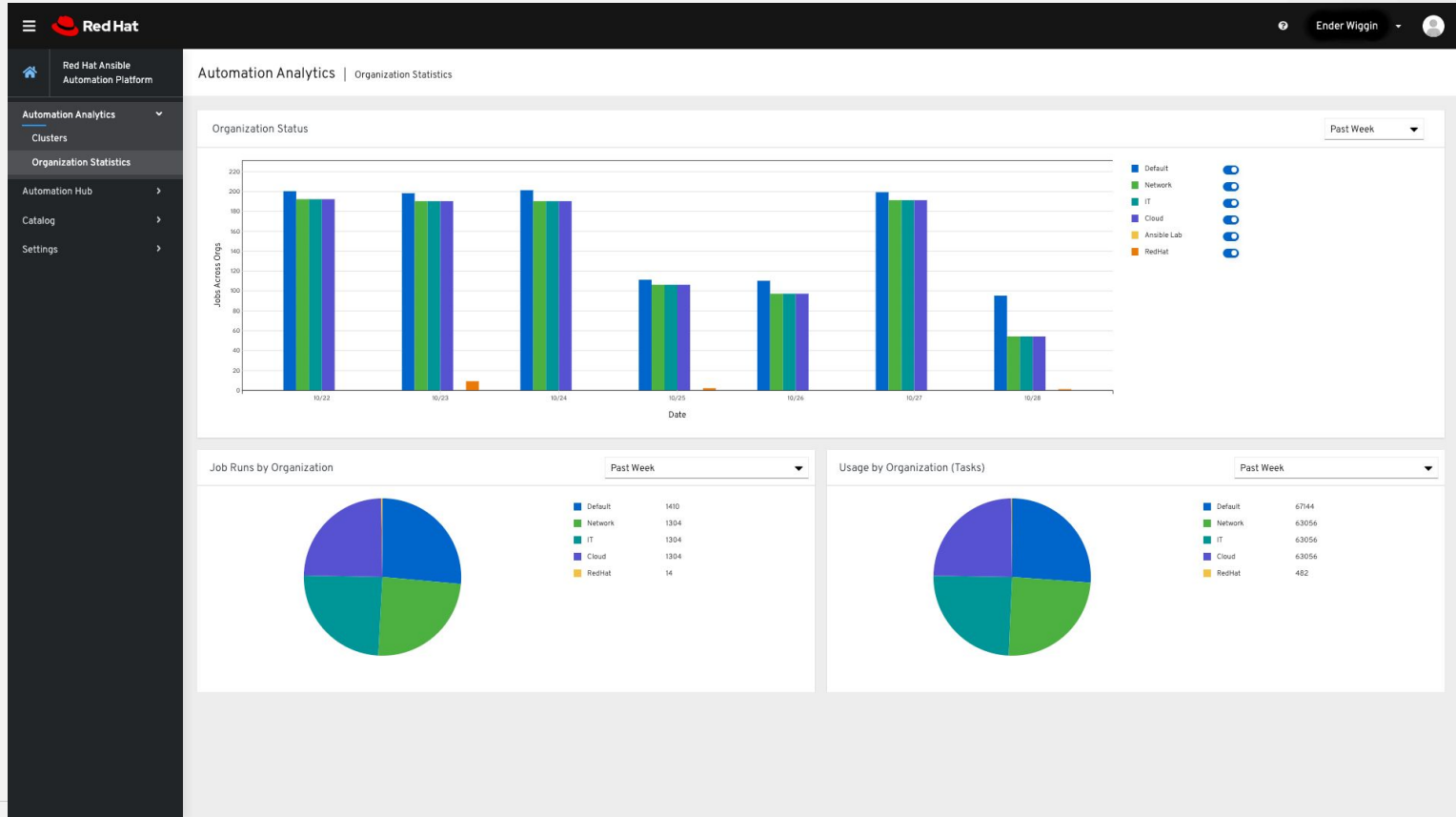
 Cluster - Frankfurt-DE failed to sync

 Node Outage- Durham-NC - node5 failed to respond

The background features a light gray grid of small dots. On the left side, there are several overlapping, semi-transparent concentric circles in shades of gray, creating a ripple effect. On the right side, there are also overlapping, semi-transparent concentric circles, similar to the ones on the left but positioned further to the right.

Organizational Statistics

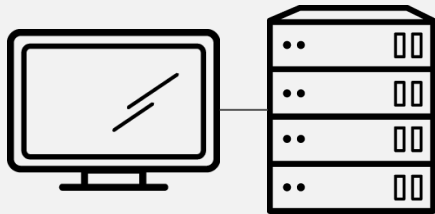
Organizational Statistics



Dashboard Comparison

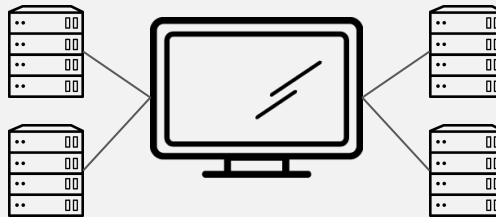
Ansible Tower

- Recent Job Templates
- No Module data
- One Cluster



Automation Analytics

- Top Job Templates
- Top Modules
- All Clusters
- Filter by Cluster



Hey, this reminds me of Red Hat Insights!

Red Hat Insights:

Included with your Red Hat Enterprise Linux subscription

Calls on the Red Hat CEE database of previously filed Help tickets

Proactively find issues in your RHEL systems, suggests solutions

Automation Analytics:

Included with your Ansible Automation Platform subscription

View-only mode of your automation estate

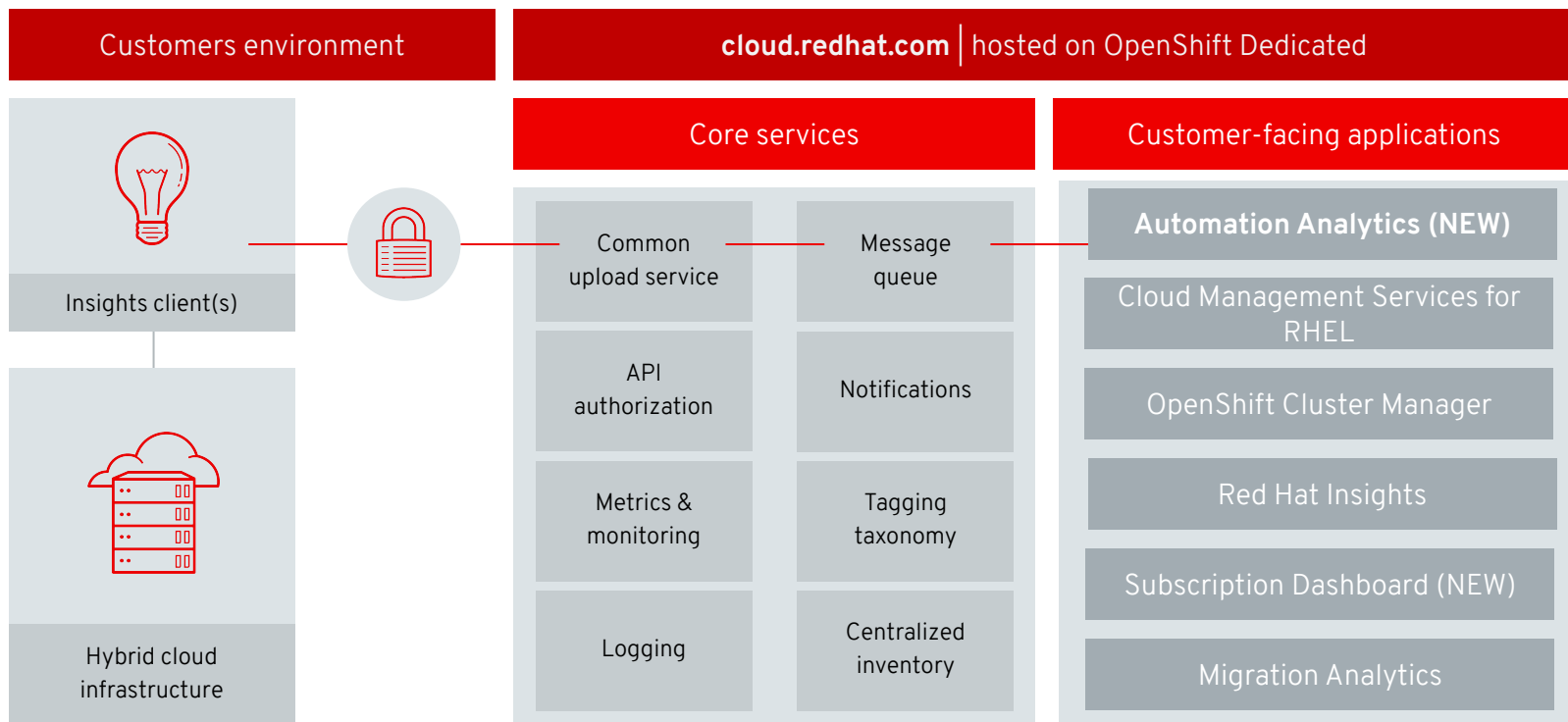
Optimize the automation services you're already providing, not looking at other companies' services

What's the same:

Powered by the cloud.redhat.com dashboard

Notifications appear in a similar fashion

Automation Analytics Architecture



Four things you should know about data collection in Automation Analytics



Customers control what data is sent

Content sent is not yet configurable, but customers can perform a collection that is not sent to Red Hat to review your data that would be sent in advance

All Information is encrypted!

Encryption happens from the time collected on the client server to transmission to the Automation Analytics service. Each customer's data is encrypted with a different key.

No customer identifying information is collected.

We don't collect task details, user information, or any secrets

How long do we keep your data?

In order to provide a long-term comparison/ history of your automation, Red Hat keeps a processed form of the data you send us for up to a year

The background features a light gray grid of small dots. On the left side, there are several overlapping, semi-transparent concentric circles of varying shades of gray, creating a ripple effect. On the right side, there are also several overlapping, semi-transparent concentric circles, similar to the ones on the left, but they are partially cut off by the edge of the frame.

How do I enable it?

New platform features accessible through cloud.redhat.com

The screenshot displays the Red Hat cloud management dashboard. At the top, the Red Hat logo is on the left, and the user name 'Ben Thomasson' is on the right. Below the header, the main heading reads 'Manage, automate, and optimize your IT'. The dashboard features six service tiles arranged in a 2x3 grid:

- Red Hat Insights:** Identify and remediate configuration issues in your Red Hat® environments. Includes a 'Rules' link and an 'Open' button with a right arrow.
- Cloud Management Services for Red Hat Enterprise Linux:** Monitor and manage issues for your Red Hat Enterprise Systems. Includes links for 'Vulnerability', 'Compliance', and 'System Comparison', and an 'Open' button with a right arrow.
- Red Hat OpenShift Cluster Manager:** Install, register, and manage Red Hat OpenShift® 4 clusters. Includes a 'Cluster Manager' link and an 'Open' button with a right arrow.
- Hybrid Cloud Management Services:** Govern, automate, and manage multi-cloud environments. Includes a 'Tech preview' icon and an 'Open' button with a right arrow.
- Red Hat Ansible Automation:** Extend your automation with analytics, policy and governance, and content management. Includes 'Automation Analytics' and 'Automation Hub' links, and an 'Open' button with a right arrow.
- Migration Services:** Get recommendations on migrating your applications and infrastructure to Red Hat. Includes a 'Migration Analytics' link and an 'Open' button with a right arrow.

At the bottom of the dashboard, the Red Hat logo is on the left, and the footer contains the text 'Copyright © 2019 Red Hat, Inc.' followed by links for 'Privacy Policy', 'Terms of Use', and 'All Policies and Guidelines'.

Automation Analytics

How do I enable it?

Opt-In under Setting-> System for each Ansible Tower cluster

The screenshot shows the Ansible Tower web interface. The left sidebar contains navigation menus for VIEWS, RESOURCES, ACCESS, and ADMINISTRATION. The main content area is titled 'SYSTEM' and contains various configuration options. A red box highlights the 'Automation Analytics Upload URL' field, which is currently set to 'https://cloud.redhat.com'. Other visible settings include 'Base URL of the Tower Host', 'Enable Administrator Alerts', 'All Users Visible to Organization Admins', 'Organization Admins Can Manage Users and Teams', 'Idle Time Force Log Out', 'Maximum Number of Simultaneous Logged In Sessions', 'Enable HTTP Basic Auth', 'Allow External Users to Create OAuth2 Tokens', 'Access Token Expiration', 'Authorization Code Expiration', 'Remote Host Headers', 'Custom Virtual Environment Paths', 'Gather Data for Automation Insights', 'Red Hat Customer Username', and 'Red Hat Customer Password'. The 'Gather Data for Automation Insights' checkbox is also checked. At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

Automation Analytics

When can I get it?

- Available 11/14/2019 to all Red Hat Ansible Automation customers (active subscription holders)
- Must have active subscription for Red Hat Ansible Automation
- Opt-In under Setting-> System for each Ansible Tower cluster





FAQ

Does automation analytics cost extra? Is this an add-on?

No, free and unlimited use of Automation Analytics is included in your Red Hat Ansible Automation subscription.

How do I turn this feature off if I don't want it?

Automation Analytics is not enabled by default. Customers must opt-in to enable their Ansible Tower cluster to send data to cloud.redhat.com

Will automation analytics work with AWX?

No, AWX is the upstream open source project for Ansible Tower. AWX does not work with cloud.redhat.com

What's Red Hat going to do with my data? Where will they keep it?

Meta-data from your Tower clusters are uploaded to cloud.redhat.com, processed, encrypted, and stored securely and separately for each enterprise.

The background features a light gray dot grid pattern. On the left side, there are several overlapping, semi-transparent concentric circles in shades of gray. On the right side, there are also several overlapping, semi-transparent concentric circles in shades of gray, mirroring the design on the left.

Questions?

ANSIBLE AUTOMATES

THANK YOU



[youtube.com/AnsibleAutomation](https://www.youtube.com/AnsibleAutomation)



[facebook.com/ansibleautomation](https://www.facebook.com/ansibleautomation)



[linkedin.com/company/Red-Hat](https://www.linkedin.com/company/Red-Hat)



twitter.com/ansible