



DEPLOY APPS, MANAGE SYSTEMS, CRUSH COMPLEXITY

Using Ansible

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The AWX Project -- AWX for short -- is an open source community project, sponsored by Red Hat, that enables users to better control their Ansible project use in IT environments. AWX is the cutting-edge upstream project from which the "Ansible Tower by Red Hat" product is ultimately derived.





WHAT IS ANSIBLE?

It's a **simple automation language** that can perfectly describe an IT application infrastructure in Ansible Playbooks.

It's an **automation engine** that runs Ansible Playbooks.

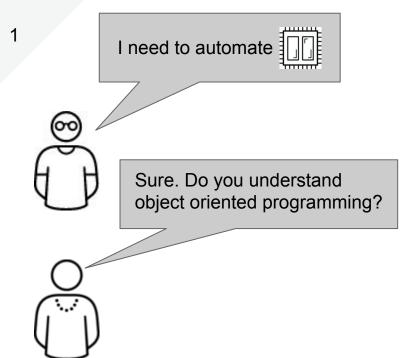
Ansible Tower is an **enterprise framework** for controlling, securing and managing your Ansible automation with a **UI and RESTful API.**

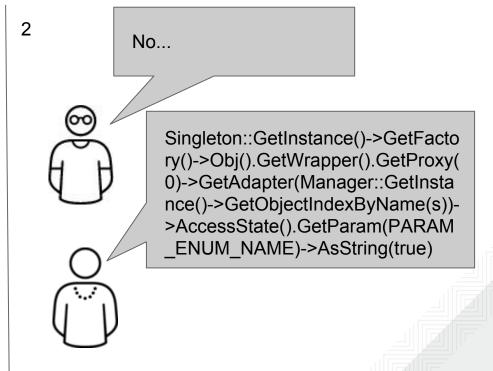






PROBLEMS SOLVED BY ANSIBLE: Knowledge threshold

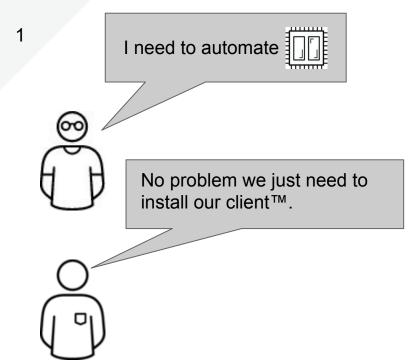


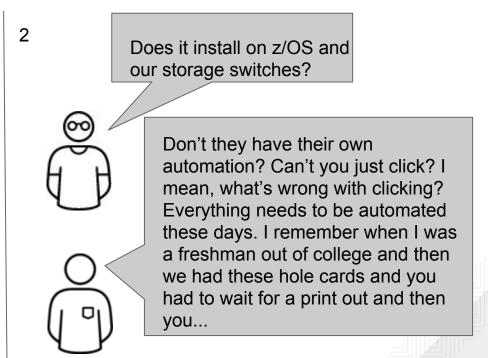






PROBLEMS SOLVED BY ANSIBLE: Automating all the things









PROBLEMS SOLVED BY ANSIBLE: Workflow orchestration

I need to first get a ui and My manager called me again. then a . How do I do that? When can we go to market? First, to get a you need to Funny you should ask. We need use system X. Just integrate to start a project to do some LCM with it's XMLRPC interface. Then for the A department. Check to get A you just reach out to the back Q3 next year! A department. They have their own system for managing that. It doesn't have an API, so...





ANSIBLE by Red Hat°



SIMPLE

Human readable automation
No special coding skills needed
Tasks executed in order
Get productive quickly



POWERFUL

App deployment
Configuration management
Workflow orchestration
Orchestrate the app lifecycle



SECURE

Agentless architecture
Uses OpenSSH & WinRM
No agents to exploit or update
More efficient & more secure





SIMPLE - POWERFUL - AGENTLESS WHAT IS MISSING?

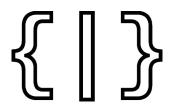


ANSIBLE TOWER



CENTRAL

Central place for everyone
Overview of present and past
Schedule jobs
Have one common view



INTEGRATION

Simple, powerful API
Uses REST for quick adoption
No special agents or lib needed
Integrate with everything



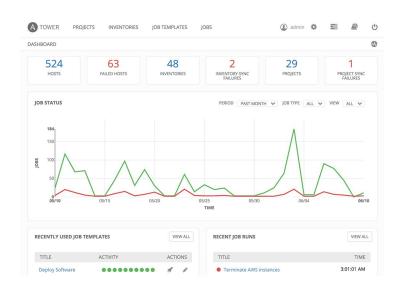
ACCESS

Teams and users enable RBAC
Deposit credentials securely
Assign access to unprivileged
Separate access and execution





WHAT IS ANSIBLE TOWER?



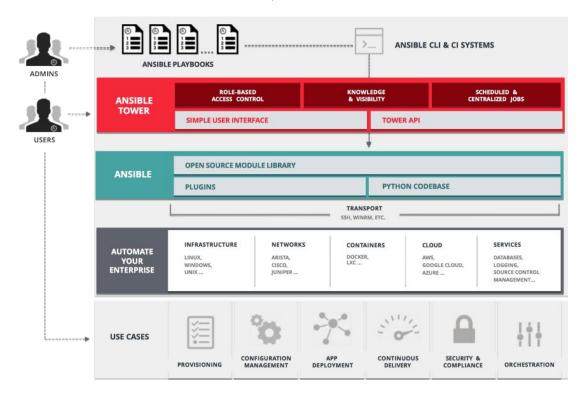
Ansible tower is an **enterprise framework** for controlling, securing and managing your Ansible automation – with a **UI and restful API**.

- Role-based access control keeps environments secure, and teams efficient.
- **Push-button deployments** for non-privileged users.
- Central logging, with connects to external frameworks
- Workflow manager to stitch multiple playbooks together.





PLATFORM OVERVIEW







ANSIBLE TRAINING

- DO407 Automation with Ansible 1
 https://www.redhat.com/en/services/training/do407-automation-ansible-i
- DO409 Automation with anaible 2: Ansible Tower https://www.redhat.com/en/services/training/do409-automation-ansible-ii-ansible-tower

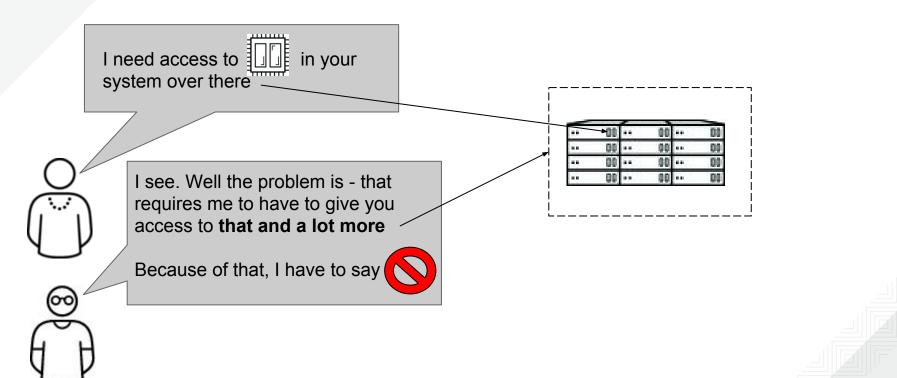




DEMO ROLE-BASED ACCESS CONTROL



"I'm sorry, I can't give you access to that."







DEMO: "Here's your access"





DEMO PUSH-BUTTON DEPLOYMENT

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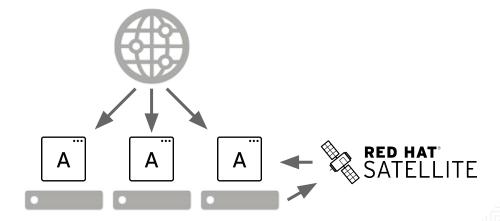
ANSIBLE TOWER WORKFLOWS





DEMO WORKFLOWS...













FORUM Europe, Middle East & Africa

Ansible Tower is now based on Open Source!





Red Hat Ansible Engine

Previously known as Ansible Core

Brings enterprise-grade global support that Red Hat is known for to the popular Ansible automation community project.

- A reliable and enterprise-ready set of Ansible automation, modules and capabilities.
- Business hours or 24x7 support from Red Hat's award-winning, global support organization.
- All the benefits of a Red Hat subscription, including <u>Open Source Assurance</u>, Service Level Agreement (SLA) response, regular security and maintenance updates, and more.





Red Hat Ansible Engine Networking add-on

This offering includes full engineering support for the following networking-specific Ansible modules:

- Arista (EOS)
- Cisco (IOS, IOS-XR, NX-OS)
- Juniper (Junos OS)
- Open vSwitch
- VyOS



