

Ansible by Red Hat







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

- App deployment
- Workflow orchestration
- Orchestrate the app lifecycle

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





Ansible Brand Architecture



This is the Ansible Product Family. It is used to generally refer to Ansible products.



Introducing Red Hat Ansible Engine. Simple, powerful, agentless. Includes full support for execution engine, core modules, and the Red Hat Subscription.



Control, knowledge, delegation for operationalizing enterprise automation environments for teams.



Ansible Playbook

```
- name: Update httpd config
hosts: webservers
vars:
  http port: 80
 max clients: 200
remote user: devops
become: true
tasks:
 - name: install httpd
  yum: name=httpd state=latest
- name: write the apache config file
  template: src=/srv/httpd.j2 dest=/etc/httpd.conf
  notify:
  - restart httpd
- name: start httpd
  service: name=httpd state=running enabled=true
```

handlers:

- restart_httpd
 service: name=httpd state=restarted

playbook.yml - name: play 1 hosts, configuration parameters, variables tasks: - install sw component - modify config file notify: - restart a service handlers: - restart a service service: name: a service state: restarted - name: play 2 hosts, configuration parameters, variables



Ansible Modules

Docs » Module Index

Module Index

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service - Manage services.

- Synopsis
- Options
- Examples
- This is a Core Module

Synopsis

Controls services on remote hosts. Supported init systems include BSD init, OpenRC, SysV, Solaris SMF, systemd, upstart.

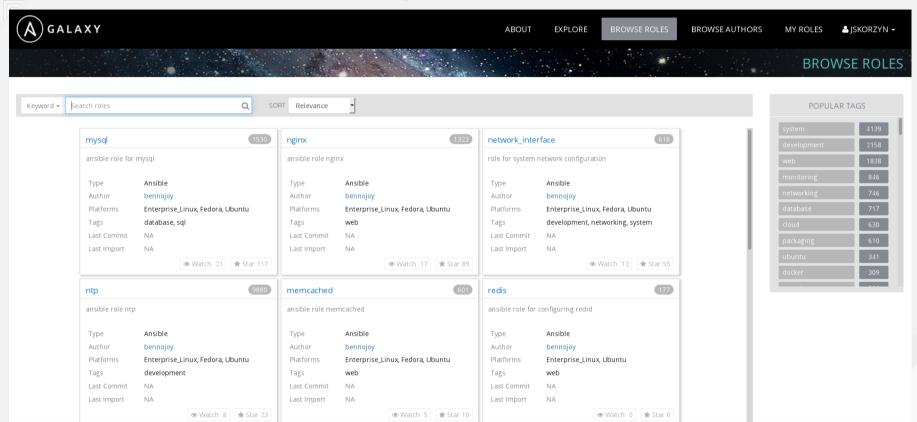
Options

parameter	required	default	choices	comments
arguments	no			Additional arguments provided on the command line
				aliases: args
enabled	no		yesno	Whether the service should start on boot. At least one of state and enabled are required.
name	yes			Name of the service.
pattern	no			If the service does not respond to the status command, nam a substring to look for as would be found in the output of the ps command as a stand-in for a status result. If the string is found, the service will be assumed to be running.
runlevel	no	default		For OpenRC init scripts (ex: Gentoo) only. The runlevel that this service belongs to.
sleep (added in 1.3)	no			If the service is being restarted then sleep this many second between the stop and start command. This helps to workaround badly behaving init scripts that exit immediatel after signaling a process to stop.
state	no		startedstoppedrestartedreloaded	started / stopped are idempotent actions that will not run commands unless necessary. restarted will always bounce the service. reloaded will always reload. At least one of state and enabled are required.





Ansible Galaxy







RED HAT ANSIBLE TOWER

Scale + operationalize your automation

CONTROL

KNOWLEDGE

DELEGATION

RED HAT ANSIBLE ENGINE

Support for your Ansible automation

SIMPLE

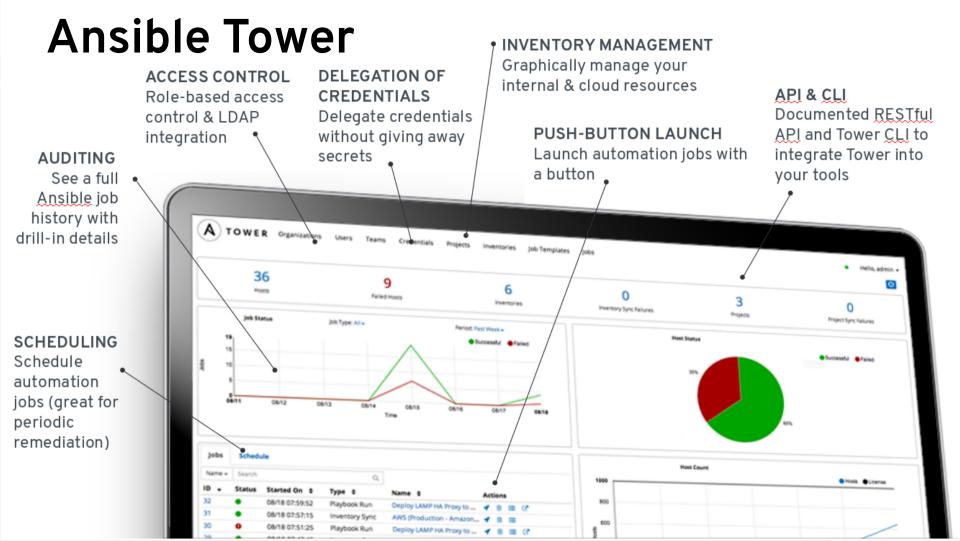
POWERFUL

AGENTLESS

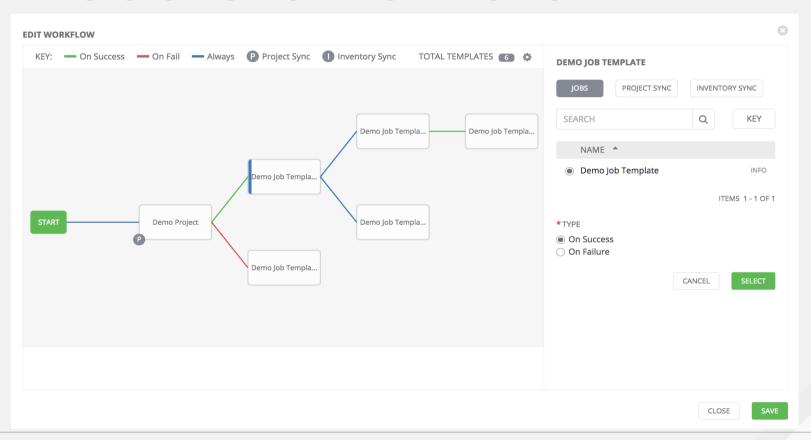
FUELED BY AN INNOVATIVE **OPEN SOURCE** COMMUNITY







Ansible Tower Workflows





Ansible Tower

ENTERPRISE LOG INTEGRATION

- Log all Tower activity to central enterprise logging
- Cross-reference automation with events and application logs
- Use Tower's API to perform remediation if needed
- Support for:
 - Elastic
 - Splunk
 - Sumologic
 - Loggly
 - Custom (Via WebHook/RESTful API)





Ansible Tower Clusters

ADD TOWER CAPACITY AND REDUNDANCY WITH EASE

- Add new Tower nodes to scale out Tower job capacity
- Tower node fails? No problem
- Individual Tower jobs will run on any node with available capacity
- Cluster stays in sync with in-Tower configuration



An Automated Ecosystem

RED HAT® SATELLITE

RED HAT° **CLOUDFORMS**



POWERS

RED HAT® ENTERPRISE LINUX[®]

RED HAT JBOSS **MIDDLEWARE**



RED HAT **STORAGE**

RED HAT VIRTUALIZATION

RED HAT® OPENSTACK PLATFORM

RED HAT **INSIGHTS**



Trainings and Materials

Ansible Courses:

- DO407 Automation with Ansible
- EX407 Red Hat Certificate of Expertise in Ansible Automation

Materials:

- Tower Trial ansible.com/tower-trial
- Getting started ansible.com/getting-started
- More? ansible.com/whitepapers



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