

WHAT WILL YOU LEARN?

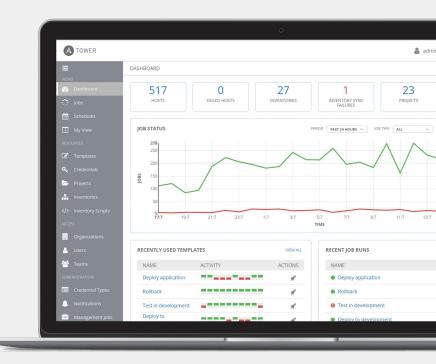
- What is Ansible Tower
- How Ansible Tower Works
- Installing Ansible Tower
- Key Features



WHAT IS ANSIBLE TOWER?

Ansible Tower is a UI and RESTful API allowing you to scale IT automation, manage complex deployments and speed productivity.

- Role-based access control
- Deploy entire applications with push-button deployment access
- All automations are centrally logged
- Powerful workflows match your IT processes







RBAC

Allow restricting playbook access to authorized users. One team can use playbooks in check mode (read-only) while others have full administrative abilities.

WORKFLOWS

Ansible Tower's multi-playbook workflows chain any number of playbooks, regardless of whether they use different inventories, run as different users, run at once or utilize different credentials.

PUSH BUTTON

An intuitive user interface experience makes it easy for novice users to execute playbooks you allow them access to.

ENTERPRISE INTEGRATIONS

Integrate with enterprise authentication like TACACS+, RADIUS, Azure AD. Setup token authentication with OAuth 2. Setup notifications with PagerDuty, Slack and Twilio.

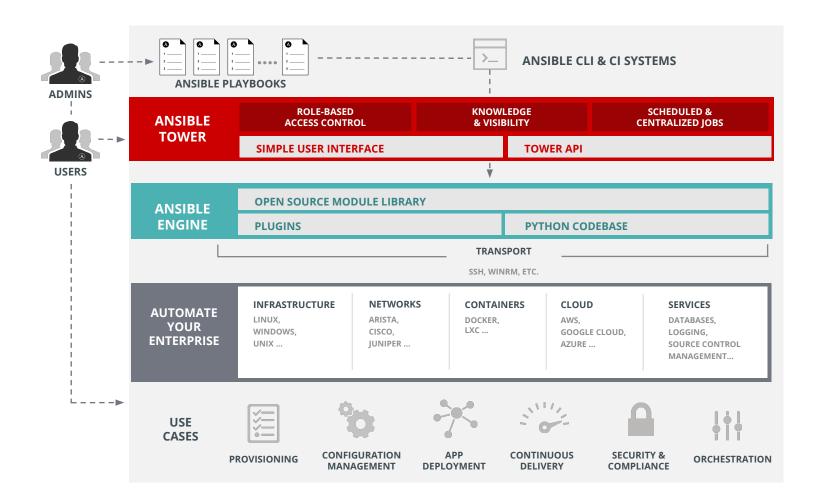
RESTful API

With an API first mentality every feature and function of Tower can be API driven. Allow seamless integration with other tools like ServiceNow and Infoblox.

CENTRALIZED LOGGING

All automation activity is securely logged. Who ran it, how they customized it, what it did, where it happened - all securely stored and viewable later, or exported through Ansible Tower's API.





INSTALLING ANSIBLE TOWER

```
# the most common and preferred way of
 installation for Red Hat Enterprise Linux
$ wget https://bit.ly/ansibletower
 bundled installer can be downloaded for
# Red Hat Enterprise Linux
$ wget https://bit.ly/ansibletowerbundle
 looking for a specific version? navigate to
 http://releases.ansible.com/ansible-tower
# to see all the versions available for download
```



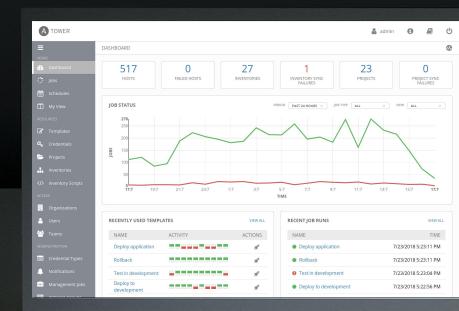
SERVER REQUIREMENTS

- Red Hat Enterprise Linux (RHEL) 7 (and select derivatives), Ubuntu 14.04 64-bit, and Ubuntu 16.04 LTS 64-bit support required (kernel and runtime).
- A currently supported version of Mozilla Firefox or Google Chrome.
- 2 GB RAM minimum (4+ GB RAM highly recommended)
- 20 GB of dedicated hard disk space





FEATURE OVERVIEW:
TOWER CONCEPTS





USER MANAGEMENT

- A **user** is an account to access Ansible Tower and its services given the permissions granted to it.
- An organization is a logical collection of users, teams, projects, inventories and more. All entities belong to an organization with the exception of users.
- **Teams** provide a means to implement role-based access control schemes and delegate responsibilities across organizations.



CREDENTIALS

Credentials are utilized by Ansible Tower for authentication with various external resources:

- Connecting to remote machines to run jobs
- Syncing with inventory sources
- Importing project content from version control systems
- Connecting to and managing network devices

Centralized management of various credentials allows end users to leverage a secret without ever exposing that secret to them.



INVENTORY

Inventory is a collection of hosts (nodes) with associated data and groupings that Ansible Tower can connect to and manage.

- Hosts (nodes)
- Groups
- Inventory-specific data (variables)
- Static or dynamic sources



PROJECTS

A Project is a logical collection of Ansible Playbooks, represented in Ansible Tower.

You can manage Playbooks and Playbook directories by placing them in a source code management system supported by Ansible Tower, including Git, Subversion, and Mercurial.



JOB TEMPLATES

A job template is a definition and set of parameters for running an Ansible Playbook.

Job templates are useful to **execute** the same job many times and encourage the **reuse** of Ansible Playbook content and collaboration between teams.



JOBS

A job is an instance of Ansible Tower launching an Ansible Playbook against an inventory of hosts.

- Job results can be easily viewed
- View the standard out for a more in-depth look



ROLE BASED ACCESS CONTROL (RBAC)

Role-Based Access Controls (RBAC) are built into Ansible Tower and allow administrators to **delegate access** to server inventories, organizations, and more. These controls allow Ansible Tower to help you **increase security** and **streamline management** of your Ansible automation.



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DYNAMIC INVENTORY

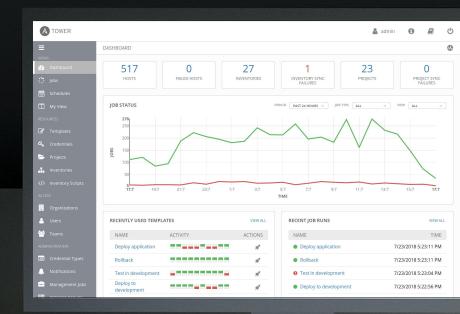
Dynamic inventory is a script that queries a service, like a cloud provider API or a management application. This data is formatted in an Ansible-specific JSON data structure and is used in lieu of static inventory files.

- Groups are generated based on host metadata
- Single source of truth saves time, avoids duplication and reduces human error
- Dynamic and static inventory sources can be used together



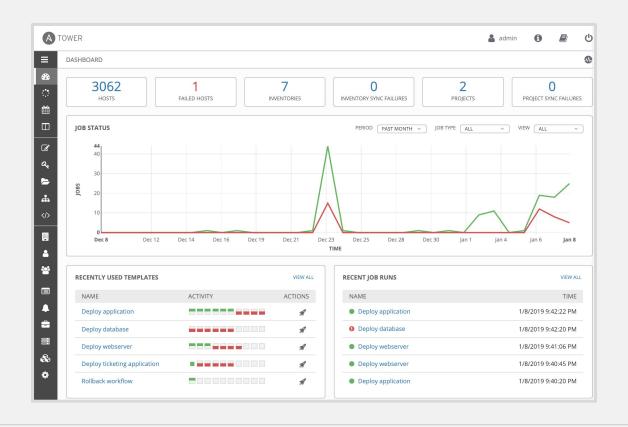


FEATURE OVERVIEW: CONTROL



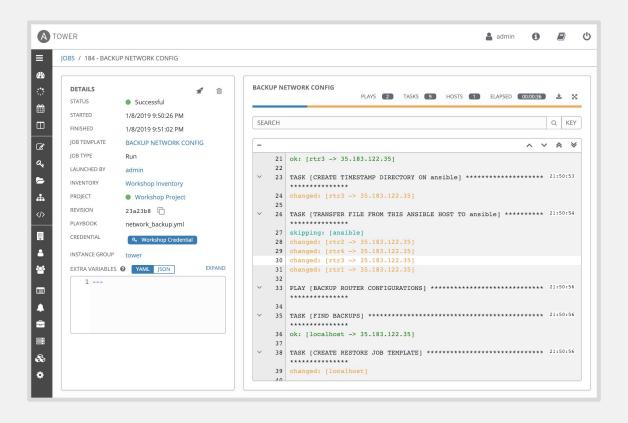


ANSIBLE TOWER FEATURES: YOUR ANSIBLE DASHBOARD



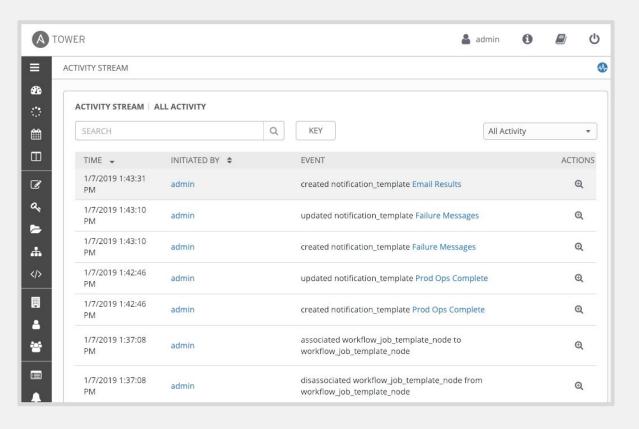


ANSIBLE TOWER FEATURES: JOB STATUS UPDATE



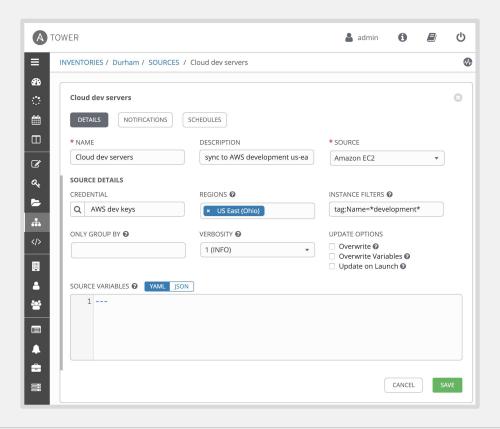


ANSIBLE TOWER FEATURES: ACTIVITY STREAM



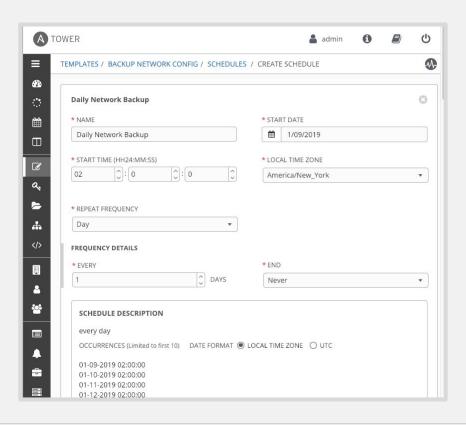


ANSIBLE TOWER FEATURES: MANAGE AND TRACK YOUR INVENTORY



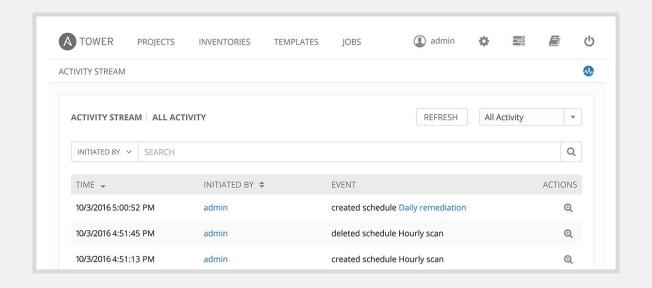


ANSIBLE TOWER FEATURES: SCHEDULE JOBS



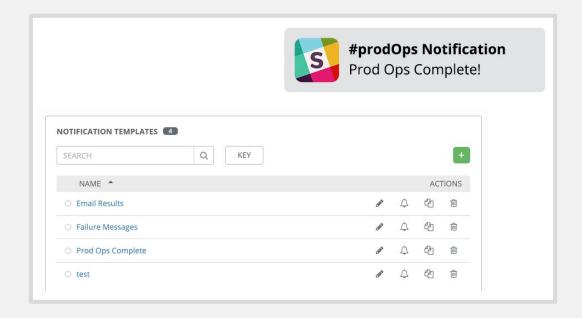


ANSIBLE TOWER FEATURES: EXTERNAL LOGGING





ANSIBLE TOWER FEATURES: INTEGRATED NOTIFICATIONS

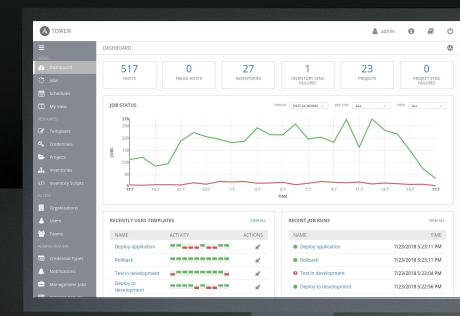






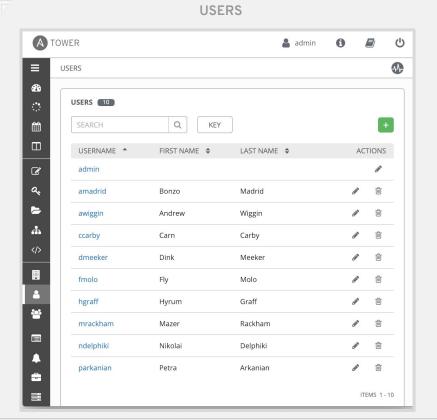
FEATURE OVERVIEW:

DELEGATION

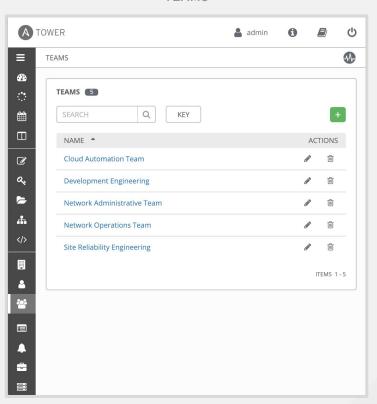




ANSIBLE TOWER FEATURES: ROLE BASED ACCESS CONTROL

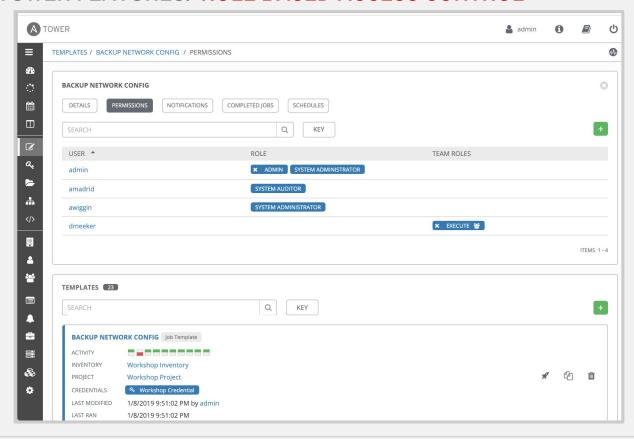


TEAMS



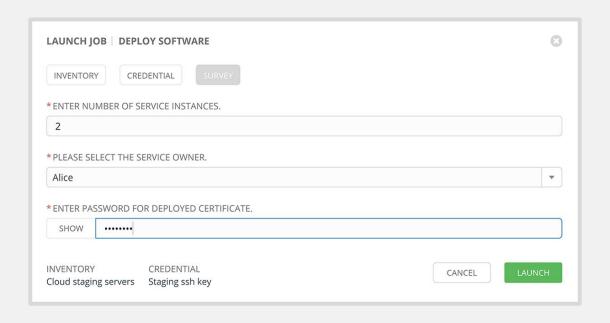


ANSIBLE TOWER FEATURES: ROLE BASED ACCESS CONTROL



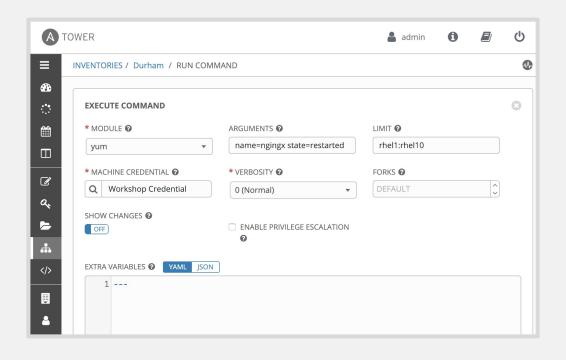


ANSIBLE TOWER FEATURES: SELF-SERVICE I.T.





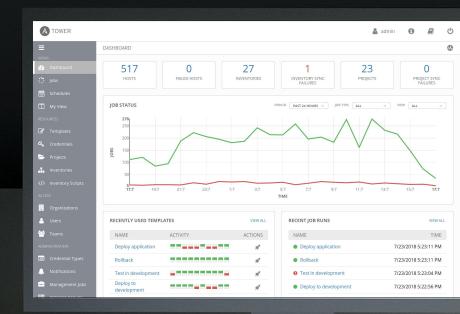
ANSIBLE TOWER FEATURES: REMOTE COMMAND EXECUTION





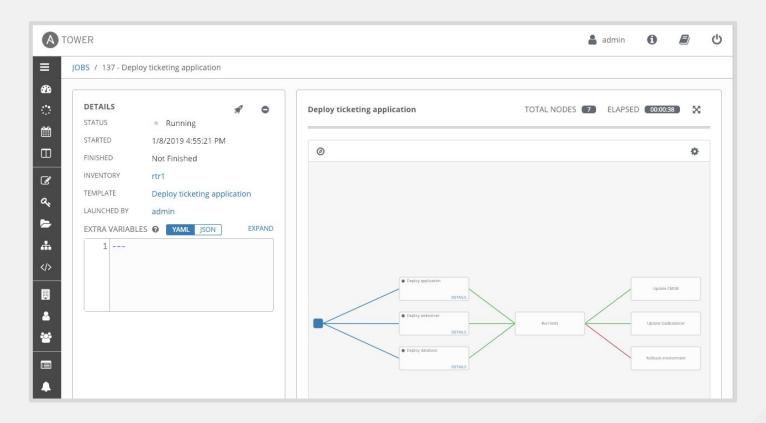


FEATURE OVERVIEW: SCALE



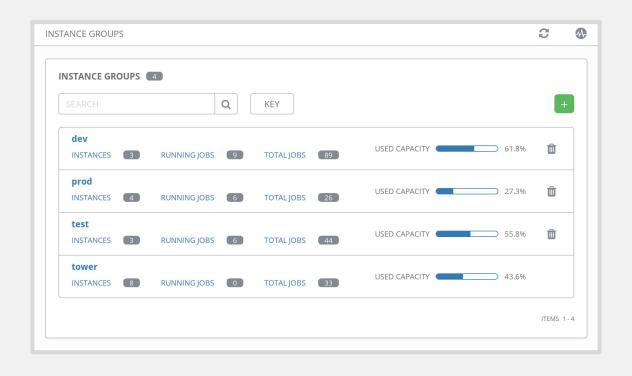


ANSIBLE TOWER FEATURES: CREATE AUTOMATION WORKFLOWS





ANSIBLE TOWER FEATURES: SCALE OUT CLUSTERING





NEXT STEPS

GET STARTED

ansible.com/get-started

ansible.com/tower-trial

WORKSHOPS & TRAINING

ansible.com/workshops

Red Hat Training

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