



Ansible Tower

By
Madumathi

What is Ansible Tower?

- Ansible Tower (formerly 'AWX') is a web-based solution that makes Ansible even more easy to use for IT teams of all kinds. It's designed to be the hub for all of your automation tasks.
- The tower allows you to share the SSH credentials without exposing them, logs all the jobs, manage inventories graphically and syncs them with a wide variety of cloud providers.

Ansible vs Ansible Tower

Ansible

Ansible is agentless, powerful, and simple, and therefore is easy to get up and running.

A new sysadmin can get started with Ansible within hours. Ansible is free, and the latest versions can be installed with the following command:

```
$ sudo yum install -y ansible
```

Ansible Tower

Ansible Tower is the enterprise version of Ansible, and it helps organizations and teams scale quickly and effectively.

There is a cost associated with adopting it, installing it, and getting the software up and running in your environments. Ansible Tower offers more control than the free version and is a great platform for breaking down silos, as it can be used cross-functionally in an efficient manner.



RED HAT®
ANSIBLE®
Automation

RED HAT ANSIBLE TOWER

Scale + operationalize your automation

CONTROL

KNOWLEDGE

DELEGATION

RED HAT ANSIBLE ENGINE

Support for your Ansible automation

SIMPLE

POWERFUL

AGENTLESS

WHY ANSIBLE TOWER?



CONTROL

Avoid the wild west

- At-a-glance dashboard
- Pull playbooks from SCM
- Schedule jobs at any time
- Easily connect to inventory sources
- Model complex processes with new **Workflows**

KNOWLEDGE

Ensure environment consistency

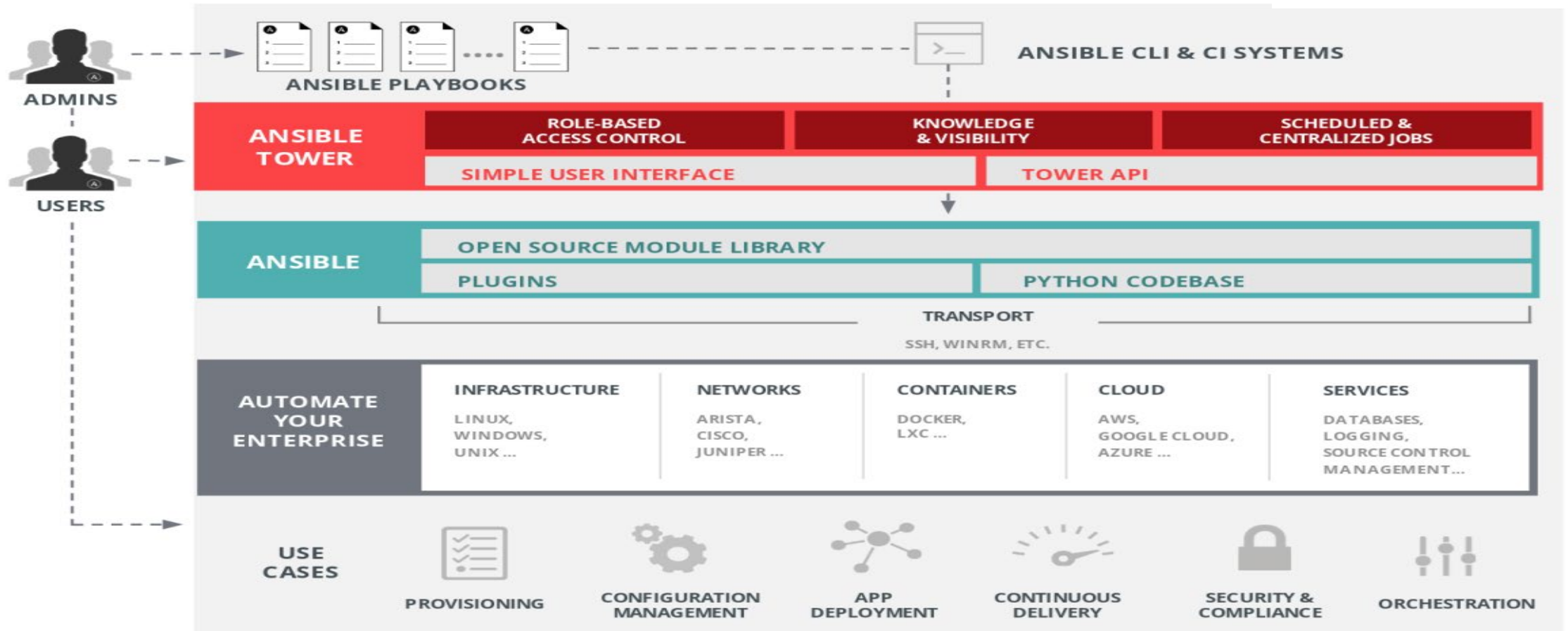
- Log all automation securely
- Audit all Tower activity
- Notifications inform users
- Use new **Enterprise Logging** for analysis

SCALE

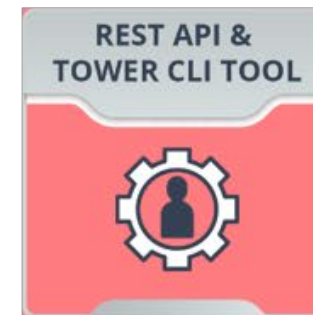
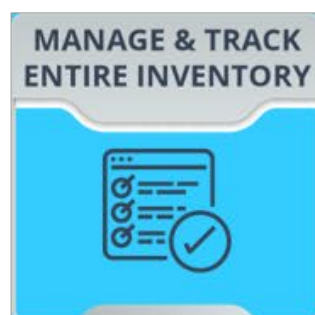
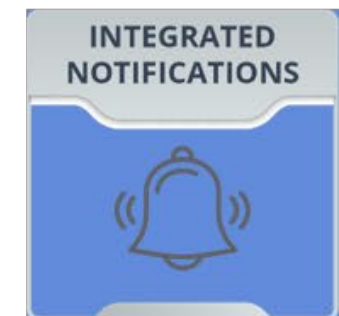
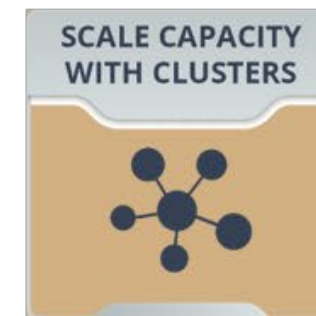
Empower Teams to Automate

- Users from LDAP/SAML and more
- Role-based access control
- Simple self-service surveys
- Full REST API for all features
- Expand capacity with new **Tower clusters**

Ansible Tower Architecture



Features of Ansible



Getting an Ansible Tower license

- Ansible Tower requires a license to use the software. There is a trial license available for free that allows you and your teams to take Tower for a spin.
- Tower currently only runs on the following distributions:
- Red Hat Enterprise Linux (RHEL) 7 and 8
- CentOS 6 and 7
- Ubuntu 16.04
- Ansible Tower is a commercial product that comes in two versions: Standard and Premium. You can compare the pricing of these two versions to see which option is best for your needs

Step 1: Create an Inventory



TOWER PROJECTS INVENTORIES JOB TEMPLATES JOBS

DASHBOARD

NEW INVENTORY

DETAILS

PERMISSIONS

* NAME

SYSTEM TRACKING

+ ADD HOST

CREATE HOST ☒ ON

* HOST NAME ?

localhost

VARIABLES ? ☒ YAML ☐ JSON

```
1 ---
2 ansible_connection: local
```

STEP 2: CREATE A PROJECT

 TOWER **PROJECTS** INVENTORIES JOB TEMPLATES JOBS

PROJECTS

*NAME

Demo Project

*SCM TYPE

Git

SOURCE DETAILS

*SCM URL ?

https://github.com/ansible/ansible-tower-samples

SCM UPDATE OPTIONS

- ☐ Clean ?
- ☐ Delete on Update ?
- ☒ Update on Launch ?

+ ADD

STEP 3: ADD A CREDENTIAL



admin



CREDENTIALS

Add passwords, SSH keys, etc. for Tower to use when launching jobs against machines, or when syncing inventories or projects.

+ ADD

*NAME

Demo Credential

*TYPE ?

Machine

STEP 4: CREATE A JOB TEMPLATE

TOWER PROJECTS INVENTORIES **JOB TEMPLATES** JOBS

DASHBOARD

NEW JOB TEMPLATE

DETAILS COMPLETED JOBS PERMISSIONS NOTIFICATIONS






*NAME
Demo Job Template

*INVENTORY ?
Q Demo Inventory
☐ Prompt on launch

*JOB TYPE ?
Run
☐ Prompt on launch

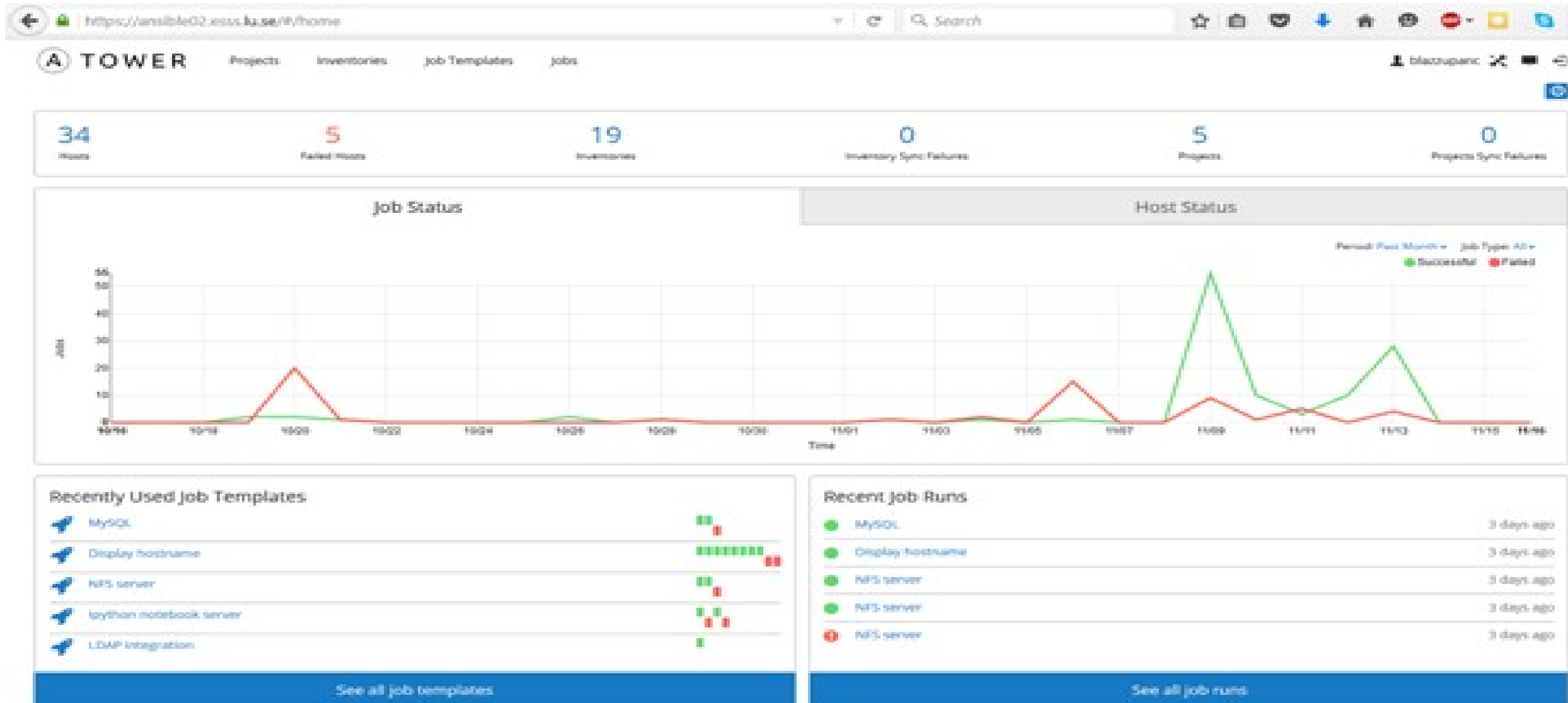
*PLAYBOOK ?
hello_world.yml

ACTIONS

STEP 5: Click on **JOB TEMPLATES** in the top menu and click the rocket ship icon to run the Job.

Dashboard



Demo

- https://www.youtube.com/watch?v=wZ_mh4-4HPY&ab_channel=Linux0

Resources

- [https://docs.ansible.com/ansible/2.5/reference_appendices/tower.html#:~:text=Ansible%20Tower%20\(formerly%20'AWX',all%20of%20your%20automation%20tasks](https://docs.ansible.com/ansible/2.5/reference_appendices/tower.html#:~:text=Ansible%20Tower%20(formerly%20'AWX',all%20of%20your%20automation%20tasks)
- <https://www.redhat.com/sysadmin/intro-ansible-tower>
- <https://docs.ansible.com/ansible-tower/>
- <https://www.edureka.co/blog/ansible-tower/>
- <https://www.ansible.com/products/tower/setup>
- <https://people.redhat.com/mkoch/training/2018-RedHatSolutions4SAP/presentations/05%20-%20Ansible%20and%20Ansible%20Tower%20Introduction.pdf>
- <https://medium.com/@wintonjkt/ansible-tower-architecture-installation-features-740518e1b577>
- <https://www.eweek.com/cloud/red-hat-boosts-workflow-automation-with-ansible-tower-3.4-update/>

**THANK YOU FOR YOUR
ATTENTION**



**PLEASE CLAP AND DON'T ASK
DIFFICULT QUESTIONS**