Getting Started with Ansible - Introduction

Automation for everyone

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WHAT IS ANSIBLE?

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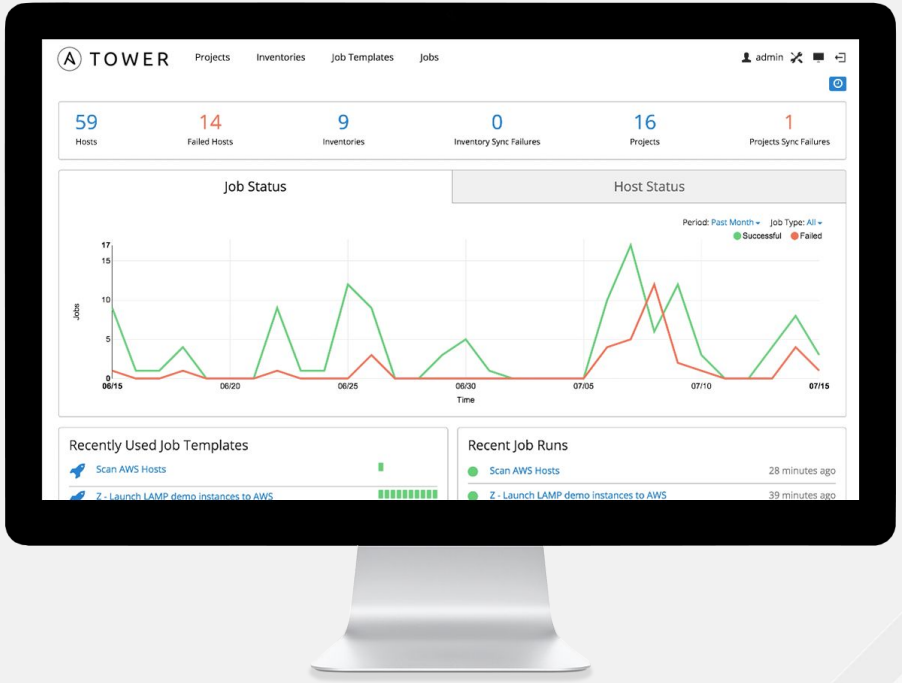
WHAT IS ANSIBLE?

It's...

- a **simple automation language** to describe an IT infrastructure Ansible Playbooks.
- It's an **automation engine** that runs Ansible Playbooks.
- **Ansible Tower** - an enterprise framework for controlling, securing and managing your Ansible automation with a **UI and restful API**.



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SIMPLE - POWERFUL - AGENTLESS

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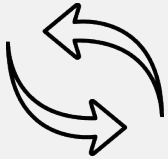
SIMPLE

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

AGENTLESS

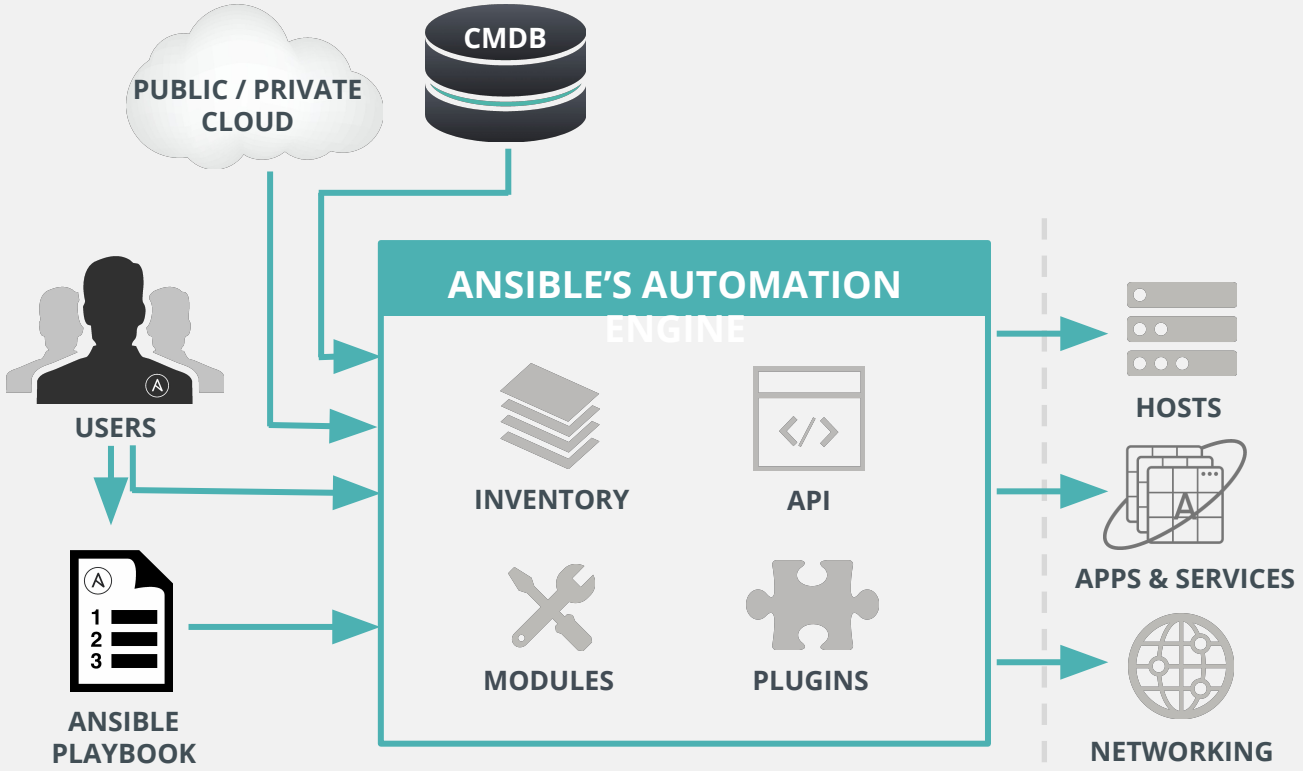
Agentless architecture

Uses OpenSSH & WinRM

No agents to exploit or update

More efficient & more secure

HOW ANSIBLE WORKS



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PLAYBOOK EXAMPLE

```
---
- name: install and start apache
  hosts: all
  vars:
    http_port: 80
    max_clients: 200

  tasks:
  - name: install httpd
    yum: pkg=httpd state=latest
  - name: write the apache config file
    template: src=/srv/httpd.j2 dest=/etc/httpd.conf
  - name: start httpd
    service: name=httpd state=running
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SIMPLE - POWERFUL - AGENTLESS

… WHAT IS MISSING?

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CENTRAL

Central place for everyone

Overview of present and past

Schedule jobs

Have one common view

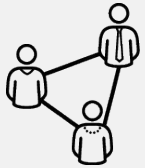
INTEGRATION

Simple, powerful API

Uses REST for quick adoption

No special agents or lib needed

Integrate with everything



ACCESS

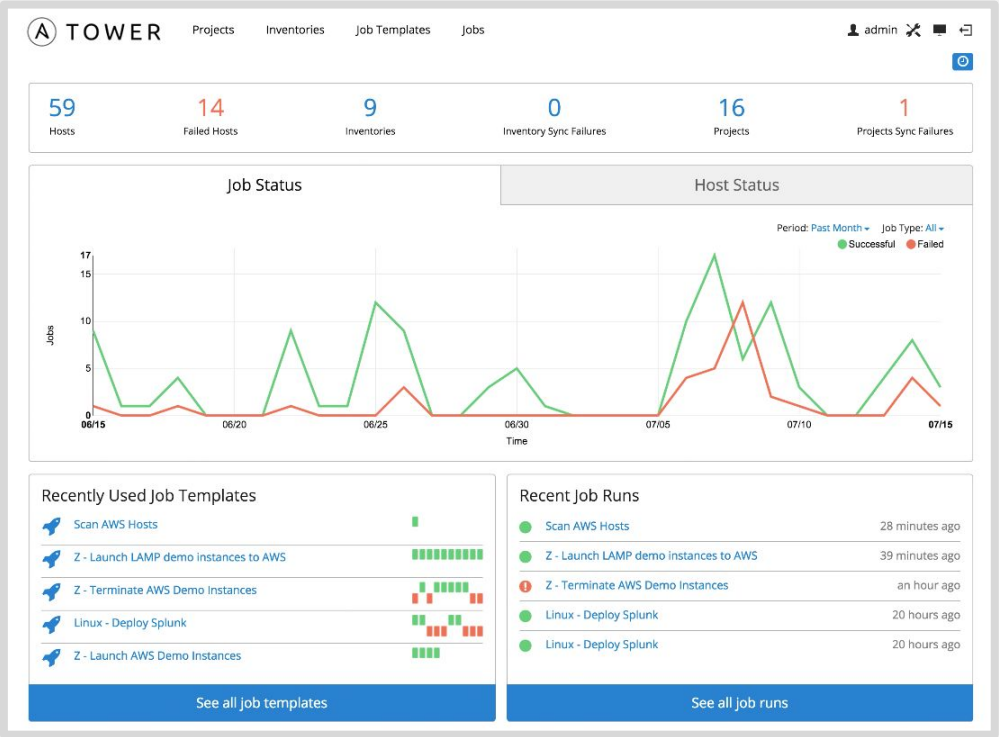
Teams and users enable RBAC

Deposit credentials securely

Assign access to unprivileged

Separate access and execution

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**
- **Push-button deployment** for non-privileged users.
- **Central logging,** with connections to external frameworks.
- **Workflow manager** to stitch multiple playbooks together.

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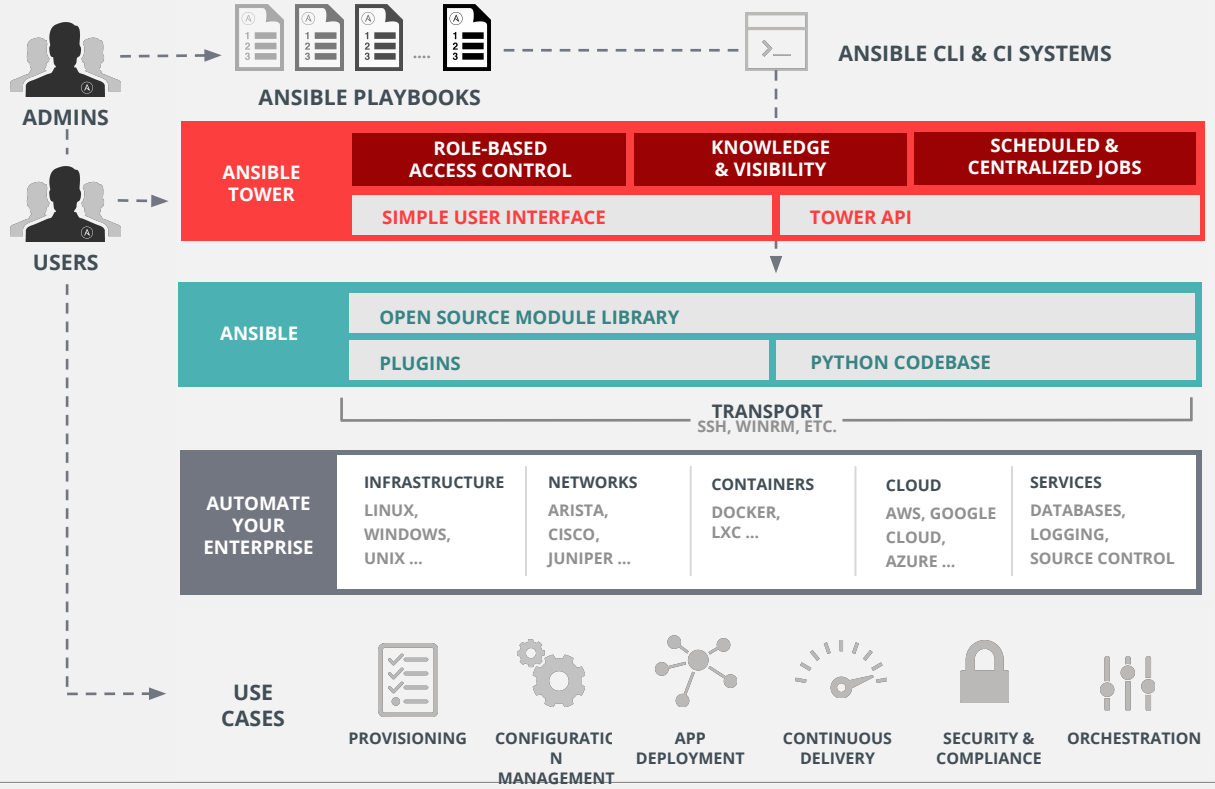
PLATFORM OVERVIEW



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ANSIBLE: THE LANGUAGE OF DEVOPS

COMMUNICATION IS THE KEY TO DEVOPS.
Ansible is the first **automation language** that can be read and written across IT.

Ansible is the only **automation engine** that can automate the entire **application lifecycle** and **continuous delivery** pipeline.

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