Managing Ansible with Red Hat Ansible Tower

Introduction to Red Hat Ansible Tower

The Purpose of Red Hat Ansible Tower

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Objectives

This module explains the use cases, features, and architecture of Red Hat Ansible Tower.

Ansible Concepts and Architecture

- A control node is installed with Ansible and is used to run playbooks
  - Contains the Ansible Engine software and the playbook and its supporting materials
  - Red Hat Ansible Tower is a control node that also provides a central web interface, authentication, and API for Ansible
- A managed host is a machine that is managed by Ansible automation
  - Does not have Ansible installed
  - Does need to be configured to allow Ansible to connect to the host
  - Must be listed in the inventory (or generated by a dynamic inventory script or plugin)

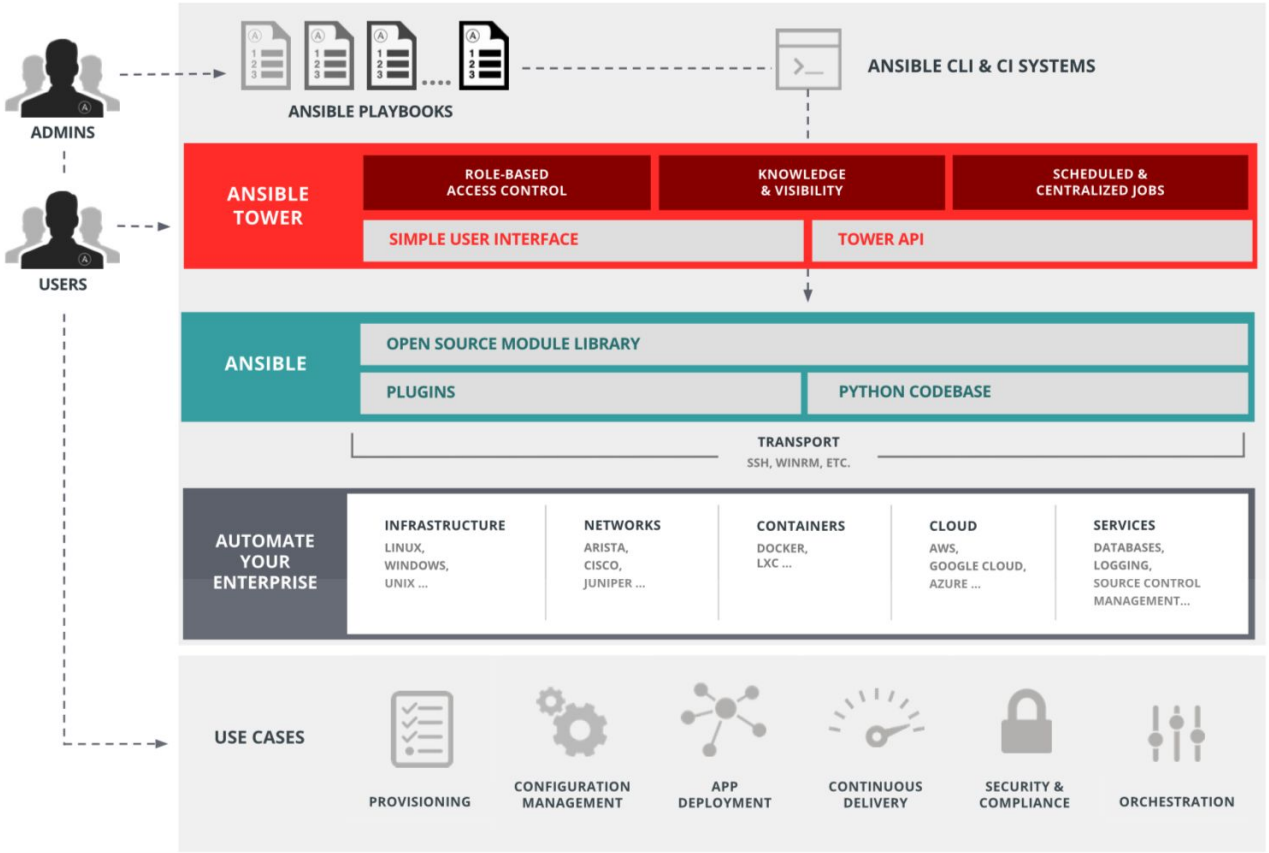
Red Hat Ansible Tower

- Red Hat Ansible Tower helps you control, secure and centrally manage Ansible automation.
- Can be your authoritative control node to run playbooks.
- Has a web-based user interface and a RESTful API.
- Users with no Linux experience can use the web-based UI to easily run Ansible.
- Different users have different levels of access to playbooks, hosts, and authentication credentials.
- Allows central tracking and logging of automation jobs.
- Makes it easy to manage and use different versions of playbooks under a version control system

Why Use Ansible Tower?

- Central location to run Ansible helps ensure consistent playbook operations.
- Centralized control node also helps log automation events and track successful and failed runs.
- Credential management feature helps maintain security by protecting secrets and credentials used to access managed hosts or perform sensitive operations.
- User management and permissions control who can run playbooks and modify settings.
- Its REST API enables easy integration with your existing workflows and tool sets.

Architecture



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