AWX

QCLUG
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What is AWX?

- Open Source Ansible Tower
  - https://www.ansible.com/products/awx-project/faq
- Task Engine/Scheduler
- Web interface
- RESTful API
- Executes Ansible Jobs
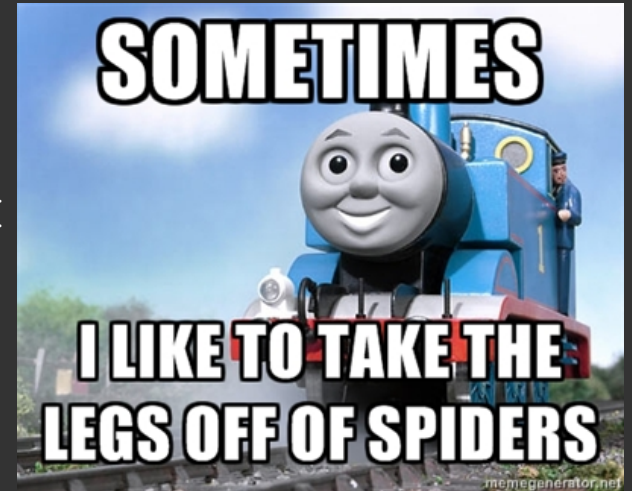
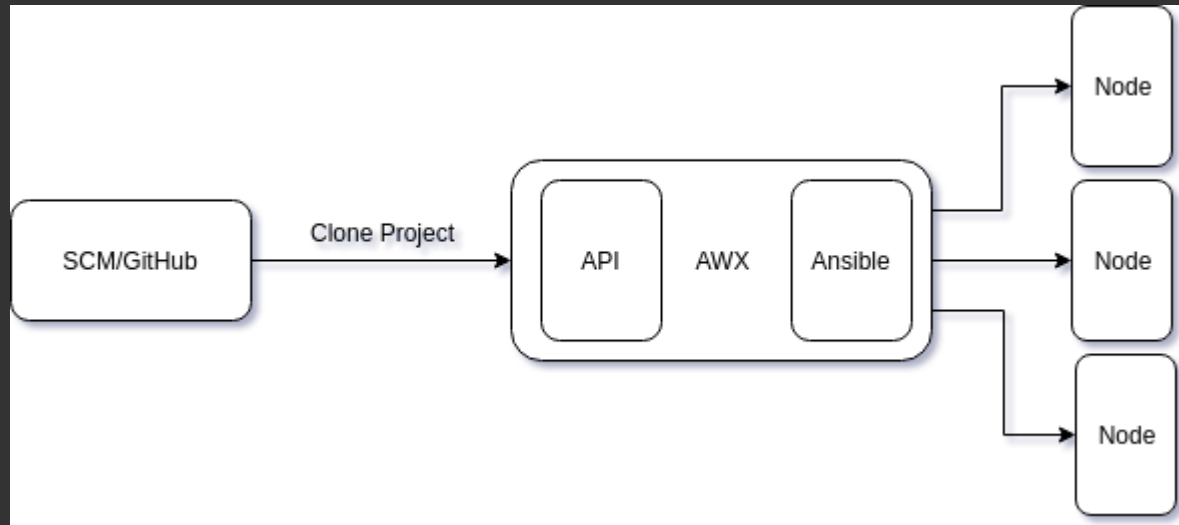# AWX Features

- Authentication (AD, LDAP, SAML, OAuth2, etc.)
- RBAC
- Repeatable Ansible Job Execution
- Notifications
- Logging
- Scheduling
- Etc.

CRON!!!!!!!

AWX Architecture

Credentials

- AWX stores credentials locally so that it can access your nodes over SSH and gain privileged access when needed
- This is most commonly a private SSH key associated with a user dedicated to running ansible playbooks across your nodes

Projects

- A Project tells AWX where to download your ansible code from
- Depending on how your ansible code is structured within your SCM, this may be a single repo, or many repos

Inventory

- Can import existing inventory with awx-manage
- If you are a cloud user there are dynamic inventories already available for AWS, GCE, OpenStack, etc.
- You can also write your own custom dynamic inventory as well

Job Templates

- You create Job Templates which is a template of the execution parameters that are needed to run a specific ansible playbook
- Jobs are then created by running Job Templates which is basically just the output of that specific Job Template run…
- Workflows can be used to string together multiple playbooks

RESTful API

```
curl -H 'Content-type: application/json' \
-d '{"extra_vars":{"target_hosts":"all"}}' \
-u admin:password \
http://172.17.0.5:8052


Also you can use tower-cli with AWX


https://github.com/ansible/tower-cli
```


OH, YOU HAVE A REST API?

YOU MUST HAVE SO MANY
CONTENT TYPES AND HYPERLINKS!

Installation

Live Demo!