



Using Configuration as Code on AAP

Understanding configuration as code for the Ansible Automation Platform

Sean Sullivan
Senior Consultant

David Danielsson
Ansible Automation Architect

Anshul Behl
Senior Ansible Technical Marketing

Options

Automate	Manual
<ul style="list-style-type: none">• Configuration as Code• Keep track of changes in Git• Code review• Consistent configuration across different objects and environments• Use of CI/CD to automate changes• Can manage multiple instances Dev/Prod from the same codebase.	<ul style="list-style-type: none">• Manual changes in can lead to mistakes• Easy to maintain a few templates and workflows, but does not scale• No coding required• Very tedious if you have to repeat the config in multiple environments and/or have a large number of workflows/templates.

Benefits

- Using Git allows for keeping track of changes and avoids manual mistakes, and have a review process.
- Standardization of Data model for all objects in Controller/AWX
- Only include the options you need to change for each object
- Roles are imported, Focusing on creating Playbooks and workflows and spend less time on how to interact with Controller.
- Able to use the collection in CI/CD process or webhooks to manage objects in Controller as merges are made to projects in Git to achieve Infrastructure as Code.

Sample File

```
---
- name: Playbook to configure ansible controller organizations
  hosts: localhost
  collections:
    - redhat_cop.controller_configuration
    - awx.awx
  vars:
    controller_hostname: https://controller.example.com
    controller_username: admin
    controller_password: password
    controller_organizations:
      - name: Satellite
      - name: Default
    controller_projects:
      - name: Demo project
        organization: Default
        scm_branch: master
        scm_type: git
        scm_update_on_launch: true
        scm_url: https://github.com/ansible/tower-example.git
  roles:
    - organization
    - projects
```

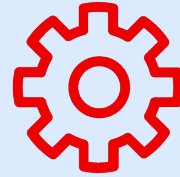
- Simple data structure
- Store configuration in Git to bring version control and other benefits

Putting it all together

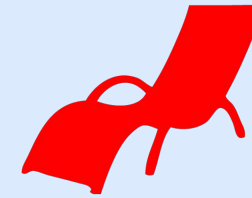
Eureka!



Set Objects in Git



CI/CD



Sit back and relax



Thank you

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Important links

Links:

Lab Login page

<https://ansiblefest.demo.redhat.com/>

Ansible Galaxy infra collections

<https://galaxy.ansible.com/infra/>