Ansible Contributor Summit - Sept 2021

Cloud Collections Update
Jill Rouleau (jillr), Ansible Cloud Content Engineering

Kubernetes / OpenShift

- 2.0, 2.1, 2.2 have been released
  - Repo migration for community.kubernetes to kubernetes.core complete
  - Enable ansible_module.turbo
  - kubernetes.core now uses the kubernetes-client Python library
  - new modules
- Q4 planned work
  - New modules to provide node taint, 'oc adm prune', and 'oc adm migrate template-instances' functionality
  - Refactoring of kubernetes.core module utilities for improved ease of maintenance

Kubernetes Refactor

Major Focus Areas

- Most logic is contained in a single class that does too much
- The K8SAnsibleMixin class is actually only used as a mixin in the k8s module for the OKD collection
- Version and dependency checks for 3rd party libraries aren't used consistently
- Everything gets routed through a single action plugin
- Too much state is being stored
- Too much code duplication
- The collection lacks a clear domain model

Kubernetes Refactor

High Level Goals

- There should be a clear split between the k8s and helm modules.
- Code should have a consistent style.
- State should be stored only in cases where its scope of use is clear and focused.
- Classes should follow the single responsibility principle and provide clean encapsulation
- Dependency injection should be favored over hard coded dependencies.
- Expand unit test coverage.

Where's the Cloud Team?

- Much of the Cloud Team is lending their expertise this quarter to supporting a Red Hat-internal cloud initiative. We'll miss seeing everyone in the Ansible community but look forward to being able to tell folks more about our work in the future.

Connect with us on IRC / Matrix

- #ansible-aws
- #ansible-kubernetes
- #ansible-vmware