

Ansible Collaboration within your Organization



Brian Bouterse - Red Hat

Oleksandr Saprykin (Alex) - Red Hat

Who Are We?

- Brian – Pulp Team, Raleigh, NC, USA
- Oleksandr – Galaxy Team, Kraków, Poland
- Collaborating for ~ 2 years

Our Collaboration

- Pulp organizes, stores, and serves software
 - Roles
 - Collections
- <https://galaxy.ansible.com> is a great index
 - But tied to Github



Problem Statement

- Sharing Roles and Collections across an organization is harder than it should be

Why is Ansible Collab Hard?

- Not everyone wants to share through github and galaxy
 - Baked in credentials
- On-premise galaxy is not install-able
- Harder at scale with different teams

But we have git!

- Git workflow works well, but it doesn't scale
- Hard to deliver to a lot of clients
- Discovery is hard
- Holds organizations back

Two Projects

- Next Gen Galaxy
 - Collection support only
 - Great UI
- pulp_ansible stores, sync's collections

pulp-ansible.readthedocs.io

- Organizes Roles or Collections into repositories
 - Repositories have versions
- Ansible-galaxy CLI install from, or upload to a repository
- APIs to move/copy content around to various repositories
- Sync's content from galaxy.ansible.com

Create a Repo

- POST /pulp/api/v3/repositories/ansible/ansible/
 - name='foo'



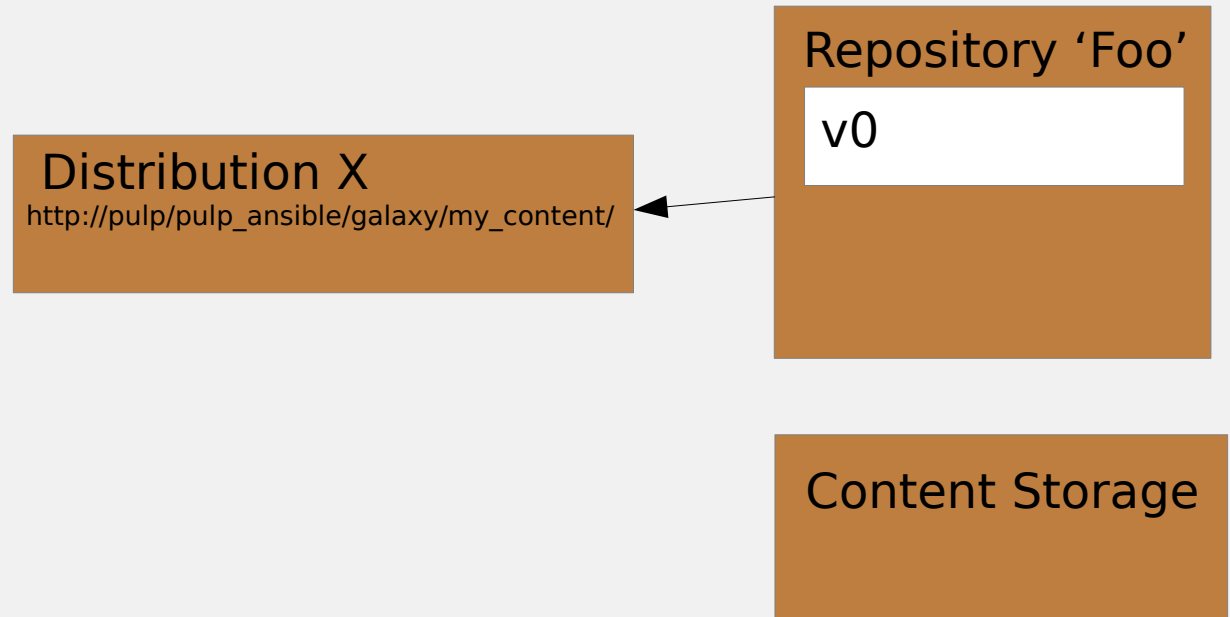
Repository 'Foo'

v0

Content Storage

Create a Distribution

- POST /pulp/api/v3/distributions/ansible/ansible/
 - name='baz'
 - base_path='my_content'



Create a Remote

- POST /pulp/api/v3/remotes/ansible/ansible/
 - name='bar'
 - url='https://galaxy.ansible.com/api/v1/roles/?namespace__name=elastic'
- POST /pulp/api/v3/remotes/ansible/collection/
 - name='bar'
 - url='https://galaxy-dev.ansible.com/api/v2/collections/testing/ansible_testing_content'

<http://galaxy.ansible.com/>



Repository 'Foo'

v0

Distribution X

http://pulp/pulp_ansible/galaxy/my_content/

Content Storage

Sync a Repo with a Remote

- POST
/pulp/api/v3/repositories/ansible/ansible/:UUID/
sync/
 - remote='/pulp/api/v3/remotes/ansible/
ansible/:UUID/'

<http://galaxy.ansible.com/>



Repository 'Foo'

v1 

v0

Distribution X

http://pulp/pulp_ansible/galaxy/my_content/



Content Storage



Quality Checks

- <https://github.com/ansible/galaxy-importer/>
- Linting Checks

Install Role

```
ansible-galaxy install elasticsearch,6.2.4 -c -s  
http://pulp.example.com/pulp_ansible/galaxy/m  
y_content/
```

- Or configure distribution url in ~/.ansible.cfg

<http://galaxy.ansible.com/>



Repository 'Foo'

v1 

v0

Distribution X

http://pulp/pulp_ansible/galaxy/my_content/



ansible-galaxy CLI



Content Storage



Install Collection

```
ansible-galaxy collection install  
testing.ansible_testing_content -c -s  
http://localhost/pulp_ansible/galaxy/my_content/
```

- Or configure distribution url in `~/.ansible.cfg`

<http://galaxy.ansible.com/>



Repository 'Foo'

v1 

v2 

Distribution X

http://pulp/pulp_ansible/galaxy/my_content/



ansible-galaxy CLI



Content Storage



Upload Collection

```
ansible-galaxy collection publish -c -s \
```

```
http://pulp3-source-fedora31.localhost.example  
.com/pulp_ansible/galaxy/c4d7b8cb-f4df-4793-  
bbf5-5baebf987c89
```

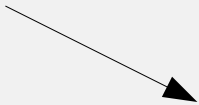
```
\
```

```
/tmp/tmpx4osq40i/pulp-  
gbftemwukloltknkgtwqkwfypkx-1.0.0.tar.gz
```



http://galaxy.ansible.com/
■ ■ ■

ansible-galaxy collection publish

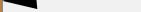
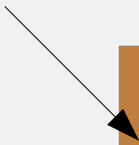


Distribution X
http://pulp/pulp_ansible/galaxy/my_content/
■ ■ ■ ■ ■

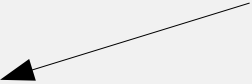
Repository 'Foo'

v1 ■ ■ ■

v2 ■ ■ ■ ■ ■



ansible-galaxy CLI



Content Storage
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Next Gen Galaxy Demo!

Additional Resources

Pulp YouTube Channel:

<https://www.youtube.com/pulpproject>

Docs: <https://pulp-ansible.readthedocs.io/>

Python Scripts from today:

<https://gist.github.com/bmbouter/8a0090b02e595349234a3c64fe563414>

- <https://gist.github.com/bmbouter/d0f42b2b64d6b8358547dbd61e1a8ae1>
- <https://gist.github.com/bmbouter/4c3cae55e67c3229ba07e3089128d8ff>

Contact Info

Brian Bouterse - bmbouter@redhat.com

Oleksandr Saprykin - osapryki@redhat.com

@pulpproj
pulpproject.org