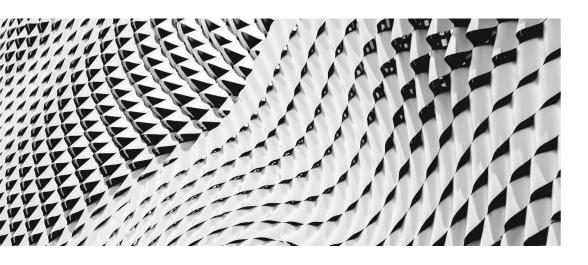
#### ANSIBLE

### What's new in Ansible 2.10

Patrick Toal
Sr. Solutions Architect
Red Hat Canada



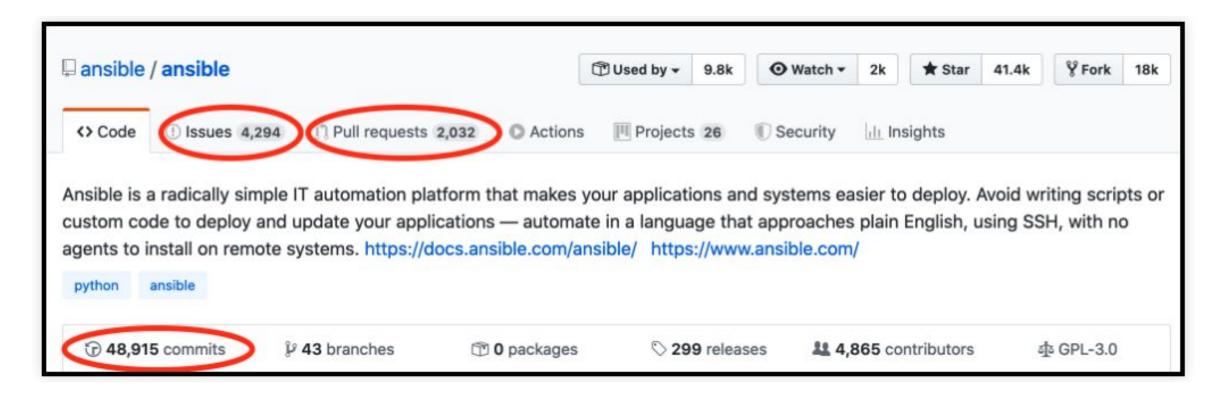
## Background



The challenges that come with success.



#### The Problem





#### The Problem

Customers	Developers
<ul> <li>Support claim confusion, and who does what and where for issues/PRs?</li> </ul>	<ul><li>4,300+ open issues,</li><li>2,000 open pull requests</li></ul>
<ul> <li>Need for stability (longer life cycle) for foundation components while</li> </ul>	<ul> <li>"One size fits all" doesn't work for all content sets</li> </ul>
<ul> <li>Need new module enablement / platform updates (shorter life cycle)</li> </ul>	<ul> <li>Some things go in quickly, some things don't</li> </ul>



#### Different Goals and Needs

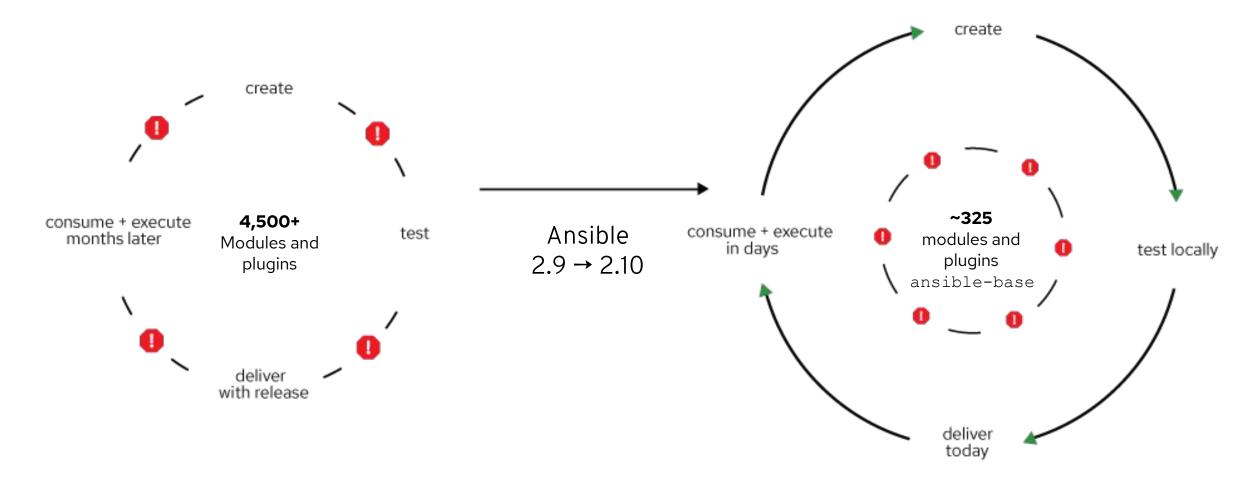
The needs of Community and Enterprise users are not always aligned.

A new structure is required to better meet the needs.

Community	Developer	Enterprise
Easy to Access	Easy to Develop	Easy to get Support
Simple to use / get started	Simple to commit, change, release	Simple to consume and deploy at scale
Standalone Tools	Ability to integrate	Integrated Platform
Rapid Innovation	Independent Innovation	Stable Integrations and Platform
Community Project	Community and/or Enterprise	Enterprise Product



#### The Plan





#### Ansible 2.10 will still install with all the plugins

#### Ansible Base

- Ansible "engine"
- Core Plugins
- Stability

# Ansible Community Collection

- All existing plugins / collections
- "Slow and steady"



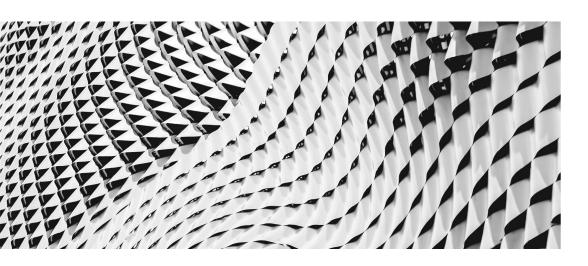
#### Ansible Repositories

Maintaining Ease of Consumption

Ansible Base	Ansible Community Collection	Ansible Community Distribution
Core Engine	A package of all current modules	Ansible Base + Ansible Community Collection
Core Plugins / Modules	Will be curated	Can be installed with pip install ansible
Main Goal: Stability	Main Goal: Maintain all existing modules in a single package	Main Goal: Maintain ease of use and "Batteries Included"



## Collections



The collections framework gives us flexibility.

Start using collections now.



#### INTRODUCING THE ANSIBLE CONTENT COLLECTION

Simplified and consistent content schema



- A standardized way to organize and package Ansible content
- Include roles, modules, module utilities, plugins, documentation
- Semantic versioning
- Portable and flexible delivery



#### Creating a Collection

```
ptoal% ansible-galaxy collection init ptoal.example
- Collection ptoal.example was created successfully
ptoal% tree ptoal
ptoal
- example
     - README.md
     — docs
     — galaxy.yml
     — plugins
      L- README.md
    L— roles
4 directories, 3 files
```

Developer docs: <a href="https://docs.ansible.com/ansible/devel/dev\_guide/developing\_collections.html">https://docs.ansible.com/ansible/devel/dev\_guide/developing\_collections.html</a>



#### Folder Structure

```
collection/
             <-- Name of collection
 — docs/ <-- Not optional. :)</pre>
Deps
  - modules/
    └─ module1.py
  - inventory/
 - README.md <-- Also not optional. :)
 - roles/
            <-- Ansible Roles
  — role1/
  - role2/
 — files/
  — vars/
   - templates/
   — tasks/
 - tests/ <-- Also not optional. Really.
Write Tests!
```



## Step 2: Allow distribution of content more openly and freely, with support claims much more clear

## Ansible Galaxy

galaxy.ansible.com

- Community supported
- Extended to leverage
   Collections framework
- "Latest and greatest"

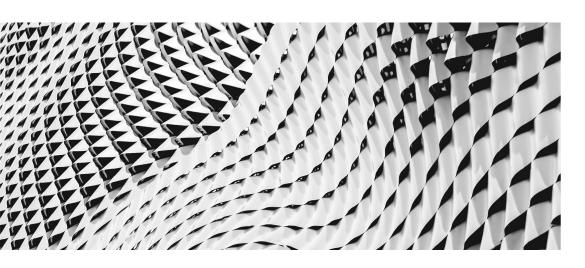
#### **Ansible Automation Hub**

cloud.redhat.com

- Certified, jointly supported by Red Hat and Partner
- Access to advanced analytics
- "Slow and steady"



# Collections in Practice



Practical examples of collections



#### Accessing the right module (Namespaces)

```
hosts: somehosts
collections:
  - tima.pinger
  - redhat.open ping
tasks:
  - tima.pinger.ping:
  - ansible.builtin.ping: # use only the ping packaged in core
  - ansible.legacy.ping: # use core or library(etc)/ping.py
    when: thing | tima.pinger.filter == 42
  - ping: # searches collections "path" otherwise...
          # still works, == ansible.legacy.ping:
```



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```



#### Managing multiple collections (requirements.yml)

```
collections:
# With just the collection name
- netbox_community.ansible_modules

# With the collection name, version, and source options
- name: azure.azcollection
   version: 0.0.2
   source: automation_hub
```



# Thank you

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