|  |
| --- |
| """ |
|  | This module implements an Ansible plugin that is triggered at the start of a playbook. |
|  |  |
|  | The plugin dynamically generates a tag for each role. Each tag has the same name as its role. |
|  | The advantage of this is that it saves you some boilerplate, because you don't have to wrap |
|  | all tasks of a role in an additional block and assign a tag to that. |
|  | Additionally, it works automatically when you add new roles to your playbook. |
|  |  |
|  | Usage is exactly the same as without this plugin: |
|  |  |
|  | ansible-playbook --tags=some\_tag provision.yml |
|  |  |
|  | Here, the "some\_tag" tag was generated dynamically (assuming there is a "some\_tag" role). |
|  |  |
|  | Installation: |
|  | 1. Place this file in `plugins/callbacks/auto\_tags.py` (relative to your playbook root) |
|  | 2. Add the following two lines to your `ansible.cfg` file: |
|  |  |
|  | callback\_plugins = plugins/callbacks |
|  | callback\_whitelist = auto\_tags |
|  | """ |
|  | from \_\_future\_\_ import print\_function |
|  | from ansible.plugins.callback import CallbackBase |
|  |  |
|  |  |
|  | class CallbackModule(CallbackBase): |
|  | """ |
|  | Ansible supports several types of plugins. We are using the \*callback\* type here, since |
|  | it seemed the best choice for our use case, because it allows you to hook into the start |
|  | of a playbook. |
|  | """ |
|  | def v2\_playbook\_on\_start(self, playbook): |
|  | """ |
|  | Dynamically add a tag of the same name to each role. |
|  | Note: Plays, roles, task\_blocks and tasks can have tags. |
|  | """ |
|  | plays = playbook.get\_plays() |
|  |  |
|  | # Note: Although identical roles are shared between plays we cannot deduplicate them, |
|  | # since Ansible treats them as different objects internally |
|  | roles = [role for play in plays for role in play.get\_roles()] |
|  |  |
|  | # Note: Tags for roles are set dynamically in `\_load\_role\_data` instead of in \_\_init\_\_ |
|  | # I don't know why they do that. |
|  | for role in roles: |
|  | role\_name = role.\_role\_name |
|  | if role\_name not in role.tags: |
|  | role.tags += [role\_name] |