MARCH 5, 2024

DevOps Classroom notes 05/Mar/2024

**Ansible Contd**

**Ansible Roles and Collections**

* DRY (Dont Repeat Yourself) Principle: This speaks about reusability
* Ansible has 3 popular ways of reusability
  + including or importing ansible playbooks
  + using roles
  + using collections
* Reusability can be acheived in two ways
  + reusable tasks in the form of roles or collections or playbooks
    - this requires re-arranging the playbooks
  + reusable modules:
    - This requires writing python code
* Re-using tasks:
  + import or include tasks
* Example with include tasks [Refer Here](https://github.com/asquarezone/AnsibleZone/commit/2b7b117b942a25862828ef1e4876f46415d95c58)

**Roles**

* Role is a reusable playbook. [Refer Here](https://docs.ansible.com/ansible/latest/playbook_guide/playbooks_reuse_roles.html)
* Ansible Galaxy hosts lots of reusable community roles [Refer Here](https://galaxy.ansible.com/ui/standalone/roles/)
* [Refer Here](https://github.com/asquarezone/AnsibleZone/commit/8534cfd661023ba79f1baebd7ae10a7b6e1972f0) for the changes done to install apache using community role
* [Refer Here](https://github.com/asquarezone/AnsibleZone/commit/20e59e742b81fb57c20a2f8a736855e99866165d) for refactoring playbook into role

**Ansible Variables**

* special variables [Refer Here](https://docs.ansible.com/ansible/latest/reference_appendices/special_variables.html)
* magic variables [Refer Here](https://docs.ansible.com/ansible/latest/playbook_guide/playbooks_vars_facts.html#information-about-ansible-magic-variables)
* both magic and special varibales provide information about ansible [Refer Here](https://docs.ansible.com/ansible/latest/playbook_guide/playbooks_vars_facts.html#information-about-ansible-magic-variables)

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