3/7/22, 6:13 PM OneNote

Ansible Handlers and roles

Wednesday, December 1, 2021 09:40 AM - name: learning handler concept hosts: all become: yes tasks: name: Install apache httpd (state=present is optional) name: apache2 state: present handlers: - name: restart apache service: name: apache2 state: restarted

Ansible Roles

Ansible role is the primary mechanism for breaking a playbook into multiple files.

This simplifies writing complex playbooks, and it makes them easier to reuse components

Advantages of Ansible roles:

- Roles group content, allowing easy sharing of code with others.
- Roles can be written that define the essential elements of a system type: web server, database server, Git repository, or other purpose
- Roles make larger projects more manageable.
- Roles can be developed in parallel by different administrators

- hosts: webservers roles: - common - webservers

Creating Ansible roles (ansible-galaxy command)

[testuser@host2 nbs_roles]\$ ansible-galaxy init /home/testuser/nbs_roles/webse - Role /home/testuser/nbs_roles/webserver [testuser@host2 nbs_roles]\$ [testuser@host2 nbs_roles]\$ tree webserver main.yml main.yml main.yml README.md test.yml — main.yml directories, 8 files

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Subdirectory
defaults
                    The main.yml file in this directory contains the default values of role
                    variables that can be overwritten when the role is used. These variables
                    have low precedence and are intended to be changed and customized in
                    plays.
files
                    This directory contains static files that are referenced by role tasks.
handlers
                    The main.yml file in this directory contains the role's handler definitions.
meta
                    The main, vml file in this directory contains information about the role
```

	including author, license, platforms, and optional role dependencies.
tasks	The main.yml file in this directory contains the role's task definitions.
templates	This directory contains Jinja2 templates that are referenced by role tasks.
vars	This directory can contain an inventory and test.yml playbook that can be used to test the role.
	The main.yml file in this directory defines the role's variable values. Often the variables are used for internal purposes within the role. These variables have high precedence, and are not intended to be changed when used in a playbook.

https://docs.ansible.com/ansible/latest/user_guide/playbooks_reuse_roles.html

- hosts: webservers roles:

- common
- webservers