

8- Ansible Role

Ansible role is a reusable unit of configuration that can be used in multiple playbooks.

Ansible roles are organized into a directory structure. The role directory contains a `tasks` directory, a `templates` directory, and a `defaults` directory. The role is invoked using the `role` keyword in a playbook.

1. playbook `roles` directory contains roles. The role is invoked using the `role` keyword in a playbook.
2. role `tasks` directory contains tasks. The task is invoked using the `task` keyword in a role.

```
$> tree -d -L 4
./
├── main.yml
└── roles
    ├── os
    │   ├── linux
    │   │   ├── setup
    │   │   │   ├── tasks
    │   │   │   │   ├── centos6.yml
    │   │   │   │   ├── centos7.yml
    │   │   │   │   ├── main.yml
    │   │   │   │   └── rocky8.yml
    │   │   └── templates
    │   │       ├── ntp.conf.j2
    │   │       └── resolv.conf.j2
    │   └── kernel_tune
    │       ├── tasks
    │       └── main.yml
    └── software
        ├── apache
        │   ├── tasks
        │   │   ├── main.yml
        │   └── templates
```


3. main.yml 文件 内容 如下 .

```
$> cat main.yml
---
- name: Setup
  hosts: "{{ target_hosts | default('all') }}"
  gather_facts: yes
  serial: "3"
  become: yes
  roles:
    - { role: os/linux/setup, tags: [ setup ] } #Linux 角色模板
    - { role: os/linux/tune, tags: [ tune ] } #nfs 角色模板
    - { role: software/apache, tags: [ apache ] } #apache 角色模板
    - { role: software/nginx, tags: [ nginx ] } # VCS 角色模板
```

4. role 文件 内容 如下 (-t) 指定 角色 名称 .

nginx 角色 模板 文件 内容 如下 .

```
$>ansible-playbook -i host main.yml -t nginx
```

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