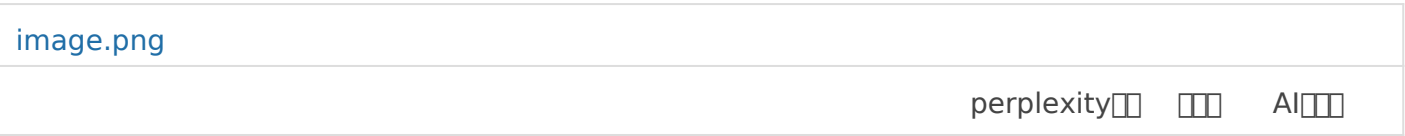


8- Ansible Role

Ansible role is a reusable unit of configuration management that can be used to manage infrastructure.

Ansible roles are organized into a directory structure. The role directory structure is as follows:



- 1. playbook calls roles to manage infrastructure.
- 2. role is a reusable unit of configuration management that can be used to manage infrastructure.

```
$> 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
|           └─ apache_logrotate.j2
|           └─ apache_systemd.j2
|           └─ apache.conf.j2
|       └─ vars
|           └─ vars.yml
└─ nginx
    └─ tasks
        └─ main.yml
    └─ templates
        └─ nginx_logrotate.j2
        └─ nginx_systemd.j2
        └─ nginx.conf.j2
    └─ vars
        └─ vars.yml

```

1. 创建角色和任务。

1. main.yml --> 角色主文件

2. roles --> 角色目录

3. roles/os/linux/setup/task/ --> OS 角色任务 (default 角色主文件)

4. roles/os/linux/setup/templates/ --> 角色模板文件

5. roles/os/linux/setup/vars/ --> 角色变量文件

3. main.yml 创建角色和任务。

```

$> 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 OS Role template
- { role: os/linux/tune, tags: [ tune ] } #nfs OS Role template
- { role: software/apache, tags: [ apache ] } #Apache Role template
- { role: software/nginx, tags: [ nginx ] } # Nginx Role Template
```

4. role의 job_tag을 (-t)로 지정하여 실행합니다.

nginx의 role을 실행합니다.

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

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