Roles

Role Examples

Wordpress JBoss MySQL Build Repository Server-Common

Current Playbook



ROLE: Builder

ROLE: Server-Common

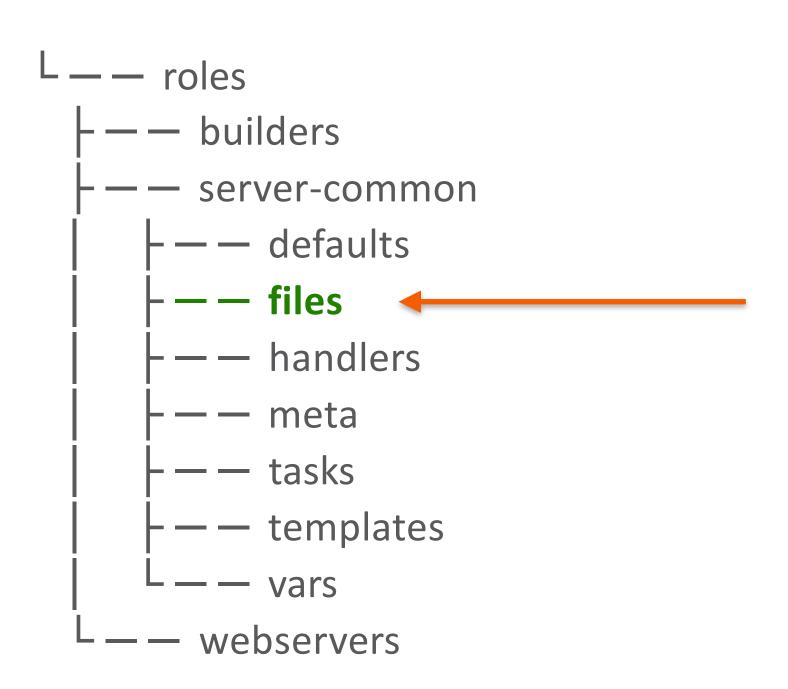
- tasks:

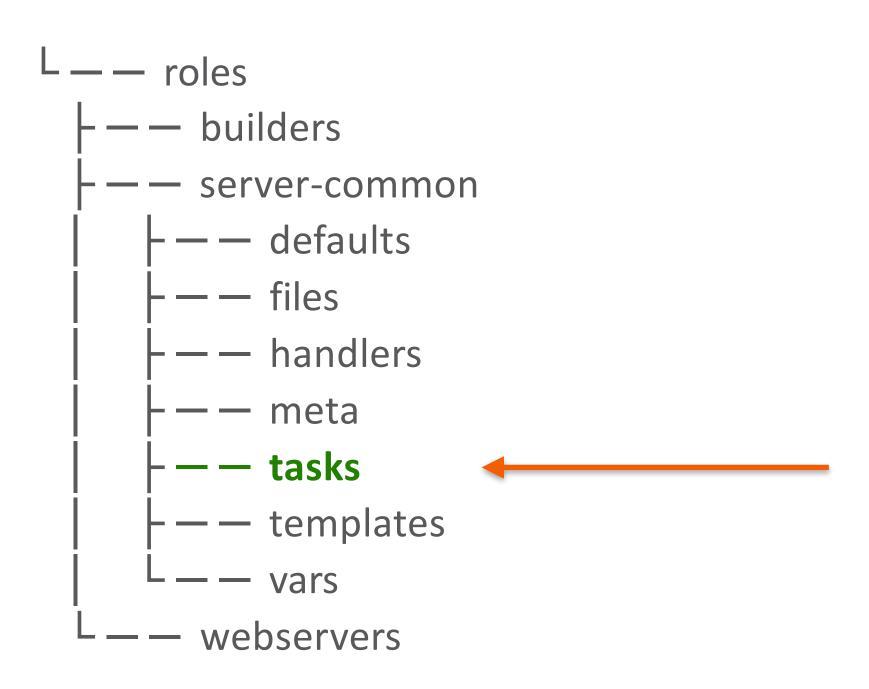
- name: configure SNMP

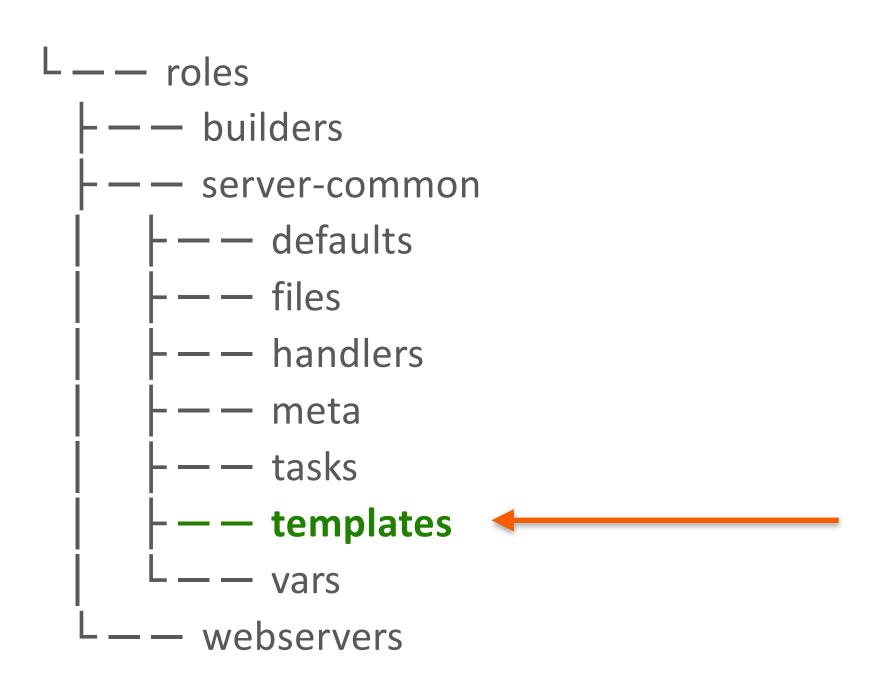
- name: configure SYSLOG

- name: configure NTP

```
L — roles
       builders
       server-common
     - — defaults
     ├── handlers
      — meta
     ├ — — tasks
        — templates
       webservers
```







```
--- handlers

--- main.yml
--- tasks

--- main.yml
--- templates
--- vars
--- main.yml
```

main.yml

Primary file that Ansible looks for

tasks/main.yml

- include: webservers.yml

- include: dbservers.yml

Can add includes to break-up long files

```
--- site.yml
--- handlers
--- main.yml
--- tasks
--- main.yml
--- templates
--- vars
--- main.yml
```

site.yml

Primary file to include entire infrastructure

site.yml

- include: webservers.yml

- include: dbservers.yml

Can add includes to break-up long files

site.yml

- include: webservers.yml tags=web

- include: dbservers.yml tags=db

Use tags to define categories within your playbooks

Tagging Tasks

```
tasks:
  debug: msg="This will only run on tag 'debug'"
  tags:
    - debug
  debug: msg="You can also use multiple tags"
  tags:
    - debug
    - ubercool
```

Adding Roles to Playbook

```
    hosts: code-dev

 roles:

    server-common

  - builders
gather_facts: no
tasks:
 # Build your extra tasks here like
 # creating users, or deploying a specific config
```

Pre-tasks and Post-tasks

pre_tasks:

- Executes plays BEFORE roles
 - Use-Cases
 - Setup of maintenance windows
 - Removing servers from Loadbalancers
 - Silencing alarms

post_tasks:

- Executes plays AFTER roles
 - Use-Cases
 - Clearing of maintenance windows
 - Adding servers to Loadbalancers
 - Enabling Alarms

Adding Pre and PostTasks

```
- hosts: webservers
pre_tasks:
 - # Remove from load-balancer
roles:
 - server-common
 - jboss
post_tasks:
 - # Add toload-balancer
gather_facts: no
```

Executing Roles - Basic

Basic execution of roles:

\$ ansible-playbook site.yml

Executing Roles - Tags

Tagged execution of roles:

```
$ ansible-playbook site.yml
    -tags "web"
```

Executing Roles - Tags with Limits

Limited tagged execution of roles:

```
$ ansible-playbook site.yml
  -tags "web"
  -limit atlanta
```

Demo: Build WebserverRole

Define "webserver" role

Define "dbserver" role

Define "common-server" role

Apply roles



Ansible Galaxy

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Installing Galaxy Roles

Use username.role

\$ ansible-galaxy install username.role

Installing Galaxy Roles

Use username.role

\$ ansible-galaxy install apaxson.ultimate

Demo: Ansible Galaxy

Browse/Search Ansible Galaxy
Find a Role and install

