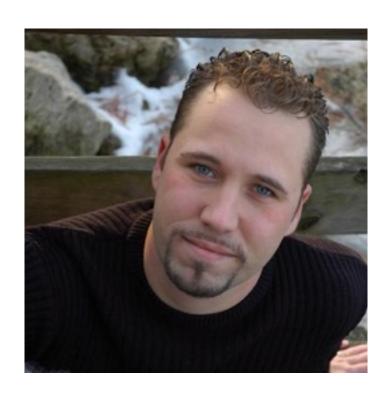
Roles

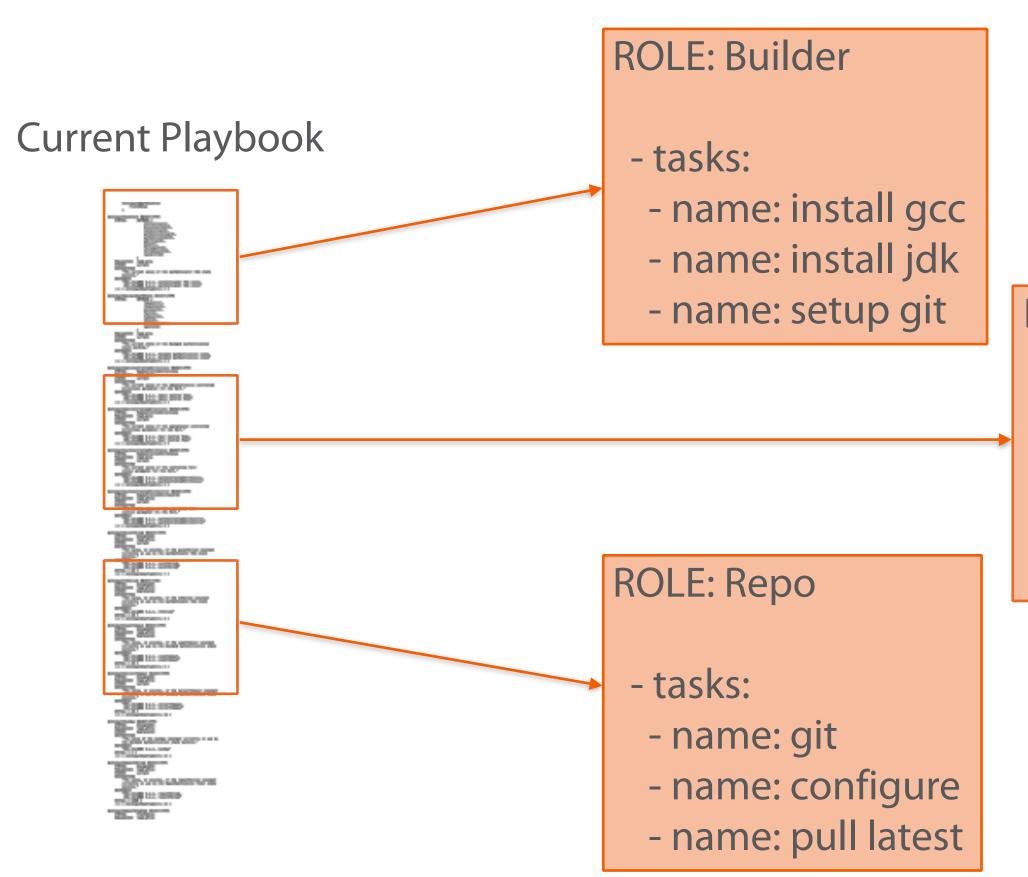


Aaron Paxson

http://myteneo.net | @Neelixx | +Aaron Paxson

Role Examples

Wordpress MySQL JBoss Build Server-Common Repository



ROLE: Server-Common

- tasks:

- name: configure SNMP

- name: configure SYSLOG

- name: configure NTP

Efficient Role Design

BUILD: Compiler/Unit Test Role

REPO: Code Repository Role

Install GCC

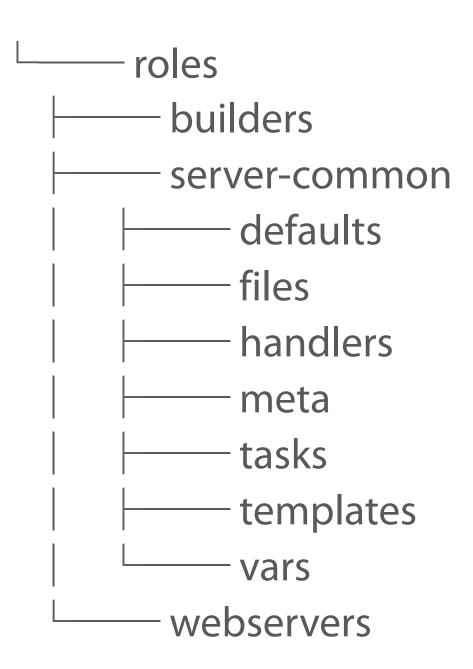
Install Git

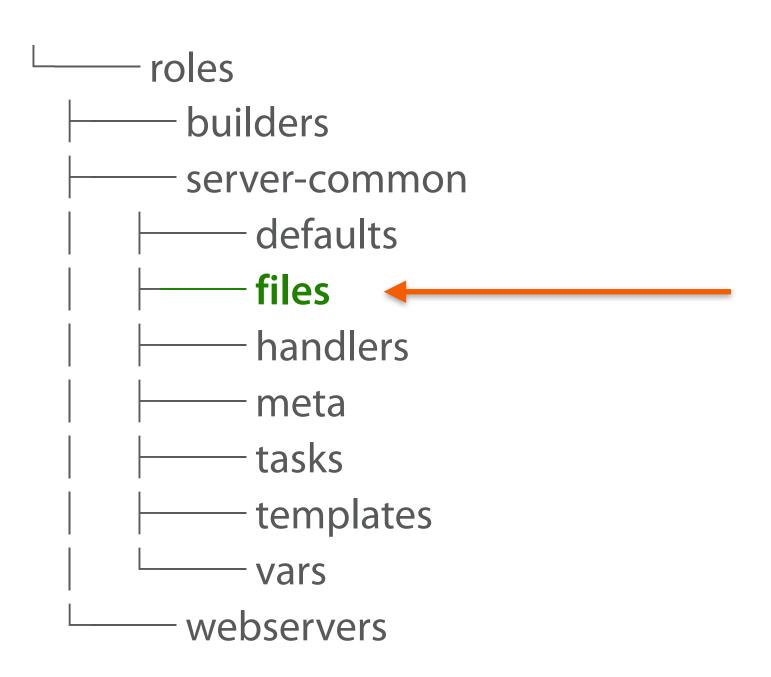
Install JDK

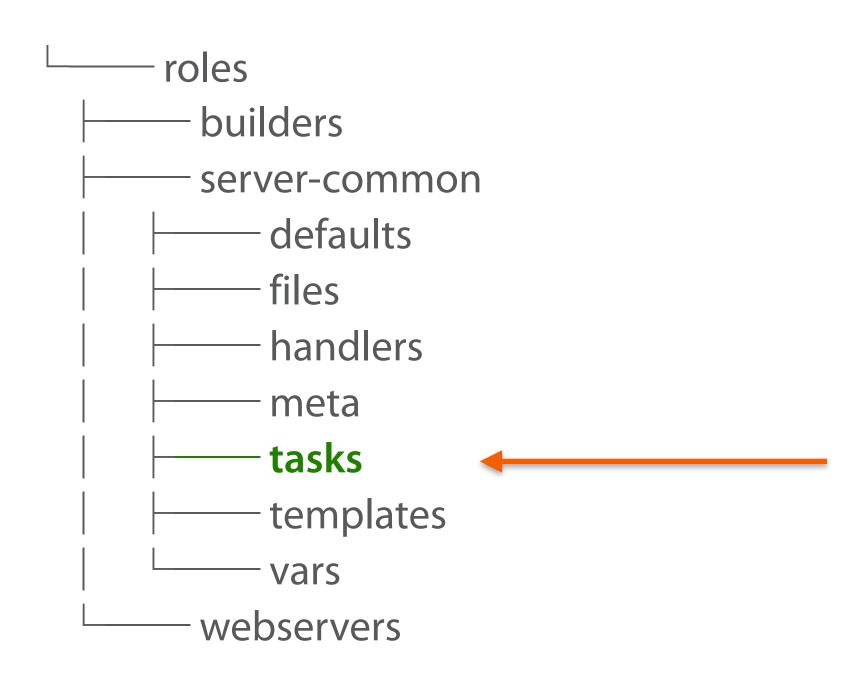
Configure Git

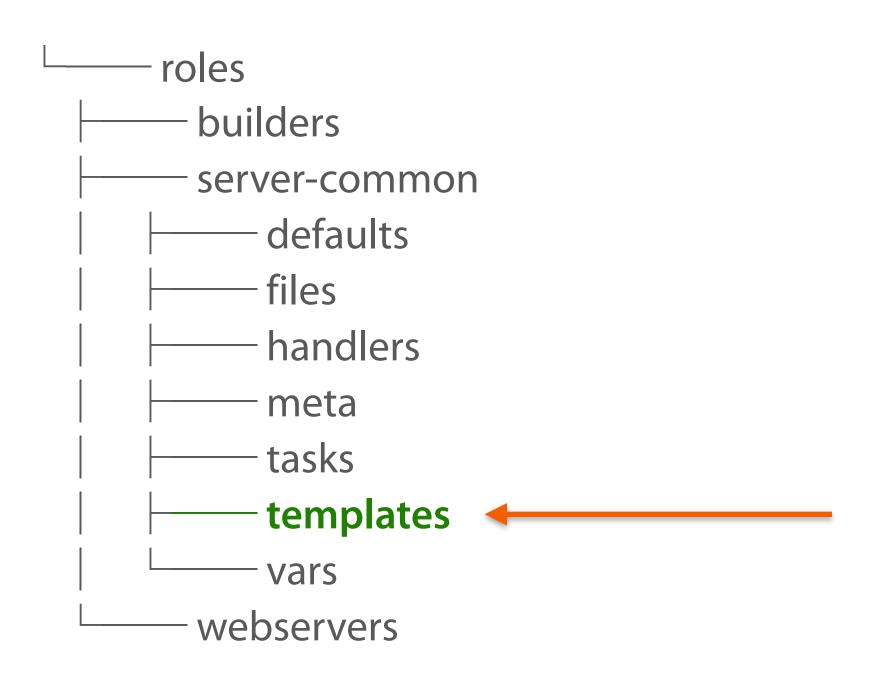
Install Unit Testing

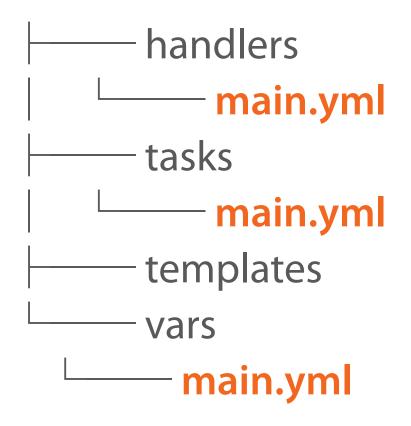
Schedule hourly pulls











main.yml

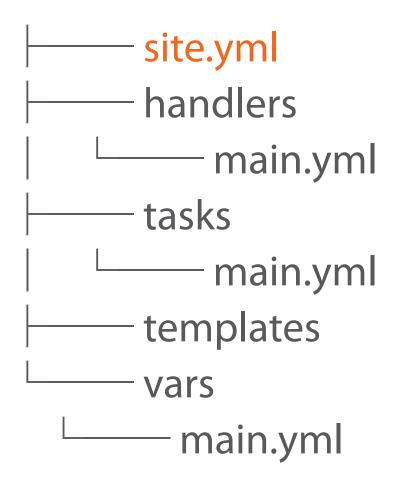
Primary file that Ansible looks for

tasks/main.yml

- include: webservers.yml

- include: dbservers.yml

Can add includes to break-up long files



site.yml

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

colteser_facts: no
- server-common
tasksilders
# 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 Post Tasks

```
- hosts: webservers
pre_tasks:
 - # Remove from load-balancer
roles:
 - server-common
 - jboss
post_tasks:
 - # Add to load-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
```

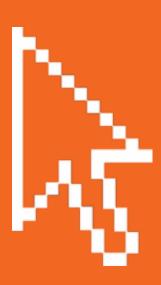
Demo: Build Webserver Role

Define "webserver" role

Define "dbserver" role

Define "common-server" role

Apply roles



Getting Roles

Create your own roles

Perfect for proprietary applications or workflows

Find roles to download

Look for others that had the same requirement and shared their work

Ansible Galaxy

Download

Share

Review







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

