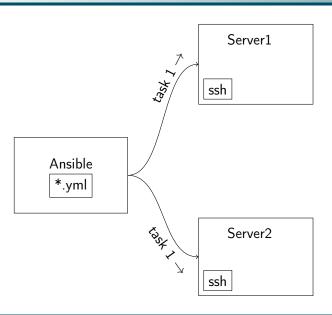
Ansible on Arch 101

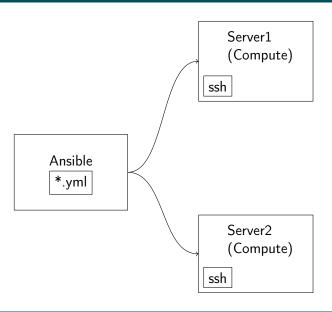
Julien Girardin

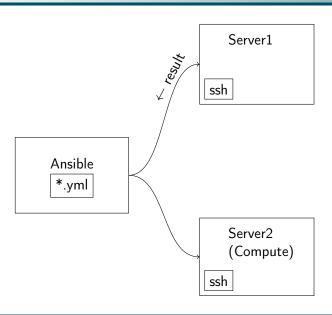
November 10, 2015

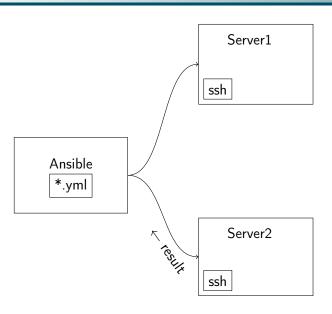
Why Ansible?

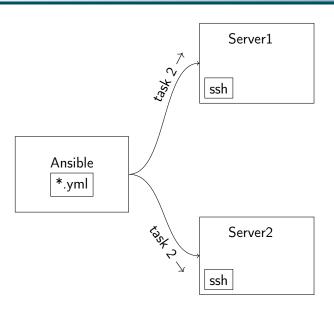
	Puppet	Chef	Ansible
Architecture	Server & Agent	Server & Agent	Workstation
Security	Certificates(PKI)	Certificates(PKI)	SSH
Language	DSL	Ruby	DSL
Extension	Ruby	Ruby	Python
Push/Pull	Pull	Pull	Push











For archlinux?

/etc/ansible/hosts or -i filename

[webservers]

foo1.arkena.test ansible_python_interpreter=python2
foo2.arkena.test option_for_a_non_arch=server

[dbservers]

bar.arkena.test ansible_python_interpreter=python2

AND

Dependencies

pacman -S python2 openssh

Specific tasks in playbooks.yml

```
- hosts: my_archlinux_server
  tasks:
    - pacman:
        name: {package}
        state: {absent|present|latest}
```

Specific tasks in playbooks.yml

```
- hosts: my_archlinux_server
  tasks:
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        name: {package}
        state: {absent|present|latest}
```

Some problems

- Can't pass package file like other package manager in ansible
- Group install make change (orange color) every time

AUR helper with ansible

```
- git:
   repo: https://aur.archlinux.org/{{package_name}}.git
    dest: >
      /tmp/{{ lookup('pipe',
      'tr -dc A-Za-z0-9 < /dev/urandom | head -c${1:-8};echo;') }}
 register: git clone
- shell: >
    . ./PKGBUILD; echo "${makedepends[@]}"
    | xargs pacman -Sv --asdeps --needed --noconfirm:
   chmod 777 .
 args:
    chdir: '{{ git clone.invocation.module complex args.dest}}'
- command: makepkg
 become: ves
 become_user: nobody
 args:
   chdir: '{{ git_clone.invocation.module_complex_args.dest}}'
- command: 'ls -1'
 register: file_list
 args:
   chdir: '{{ git_clone.invocation.module_complex_args.dest}}'
- command: >
   pacman -U --noconfirm
   {% for pkg in file_list.stdout_lines if pkg|match('.*pkg\.tar\.xz') %}
       {{ pkg }} {% endfor %}
 args:
   chdir: '{{ git_clone.invocation.module_complex_args.dest}}'
```

Roles

Role depencies

```
myplabook.yml
roles/
    myrole/
    tasks/main.yml # playbook
    meta/main.yml
    aur_helper/
    tasks/main.yml
```

roles/myrole/meta/main.yml

```
dependencies:
```

```
- role: aur_helper
package_name: shinken
```

myplaybook.yml

```
- hosts: my_archlinux_server
  roles:
    - myrole
```

Some problems

- Reproducibilty
- Build tools chain on 'server'
- Broken update

Some problems

- Reproducibilty
- Build tools chain on 'server'
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builder & repo

- Jenkins
- Buildbot
- ..

 ${\sf Questions!?}$

DEMO

code available at

https://github.com/Zempashi/buildbot_pkg_ansible

 ${\sf Questions!?}$