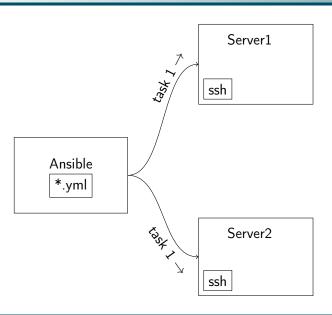
# Ansible on arch 101

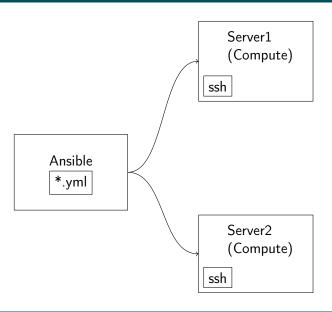
Julien Girardin

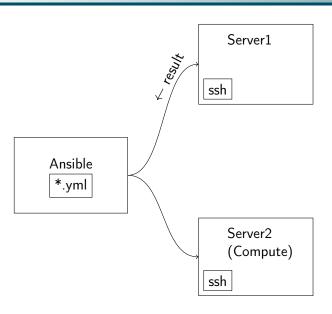
November 10, 2015

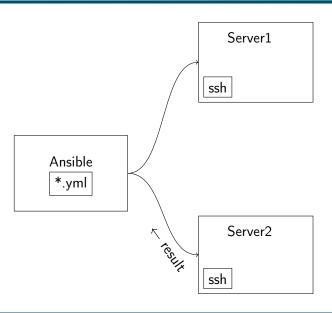
# Why Ansible?

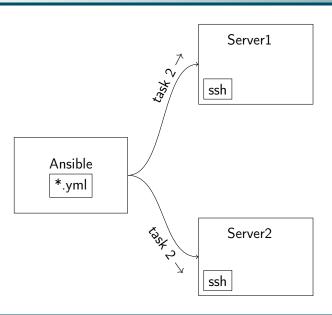
	Puppet	Chef	Ansible
Architecture	Server & Agent	Server & Agent	Workstation
Security	Certificates(PKI)	Certificates(PKI)	SSH
Language	DSL	Ruby	DSL
Extension	Ruby	Ruby	Python
Push/Pull	Pull	Pull	Push











# 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}
```

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- hosts: my_archlinux_server
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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

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- Reproducibilty
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### builder & repo

- Jenkins
- Buildbot
- ...

Questions!?