

# Hosts

- Management: 193.224.22.211 (ansible21)
  - user: ansible1, pw: Ansible1, clienthost: ansible1
  - ...
  - user: ansible20, pw: Ansible20, clienthost: ansible20
- ssh-agent /bin/bash
- ssh-add .ssh/ansible.key
  - Ansible
- Directory: config/
- Editor: vim, pico, nano, joe

# site.yml 0.

---

```
- hosts: mail
```

```
  become: true
```

```
  pre_tasks:
```

```
    - name: Update apt cache
```

```
      apt: update_cache=yes cache_valid_time=3600
```

```
  tasks:
```

```
    - name: Make sure postfix is installed
```

```
      apt: name=postfix state=latest
```

```
$ ansible-playbook -i hosts --syntax-check site.yml
```

```
$ ansible-playbook -i hosts --list-tasks site.yml
```

```
$ ansible-playbook -i hosts --check site.yml
```

# Ad-hoc telepítés

```
$ ansible -i hosts -become -m apt \  
    -a "name=python-apt state=present" ansibleX  
$ ansible-playbook -i hosts --check site.yml  
$ ansible-playbook -i hosts --check --diff site.yml  
$ ansible-playbook -i hosts site.yml  
  
$ mkdir files  
$ scp debian@ansibleX:/etc/postfix/main.cf files  
$ edit files/main.cf
```

# site.yml 1.

```
# pre_tasks...  
handlers:  
  - name: Reload postfix  
    service: name=postfix state=reloaded  
tasks:  
  - name: Make sure postfix is installed  
    apt: name=postfix state=latest  
  - name: Copy postfix main.cf  
    copy: src=files/main.cf dest=/etc/postfix/main.cf  
notify:  
  - Reload postfix  
  - name: Make sure postfix service is started  
    service: name=postfix state=started
```

# Roles I.

```
$ ansible -i hosts -m setup mail
$ mkdir -p roles/posfix/tasks roles/postfix/handlers \
        roles/postfix/files/etc/postfix
# roles/postfix/handlers/main.yml
---
- name: Reload postfix
  service: name=postfix state=reloaded
```

# Roles II.

```
# roles/postfix/tasks/main.yml
---
- name: Make sure postfix packages are installed
  apt: name="{{ item }}" state=latest
  with_items:
    - postfix

- name: Copy postfix main.cf
  copy: src="{{ item }}" dest="/{{ item }}"
  with_items:
    - etc/postfix/main.cf
  notify:
    - Reload postfix

- name: Make sure postfix service is started
  service: name=postfix state=started
```

# Roles III.

```
# site.yml
```

```
---
```

```
- hosts: mail
```

```
  become: true
```

```
  pre_tasks:
```

```
    - name: Update apt cache
```

```
      apt: update_cache=yes cache_valid_time=3600
```

```
  tasks:
```

```
    - import_role: name=postfix
```

```
$ ansible-playbook -i hosts --check site.yml
```

# Variables I.

```
$ mkdir host_vars
# host_vars/ansibleX
postmap_files:
  - etc/postfix/virtual_aliases
# roles/postfix/files/etc/postfix/virtual_aliases
email@address    email2@address
# roles/postfix/tasks/main.yml ++
- name: Copy postmap files
  copy: src="{{ item }}" dest="/{{ item }}"
  with_items: "{{ postmap_files|default([]) }}"
  register: changed_postmap_files
- name: Debug changed_postmap_files var
  debug: var=changed_postmap_files
```



# Variables II.

```
# roles/postfix/tasks/main.yml ++
- name: Copy postmap files
  copy: src="{{ item }}" dest="/{{ item }}"
  with_items: "{{ postfix_files|default([]) }}"
  register: changed_postmap_files
  notify:
    - Call postmap files
# roles/postfix/handlers/main.yml ++
- name: Call postmap files
  command: /usr/sbin/postmap "/{{ item.item }}"
  when: item.changed == true
  with_items: "{{ changed_postmap_files.results }}"
```