# Ansible

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### 1 Introduction

Ansible est un outil d'automatisation sans agent que vous installez sur un nœud de contrôle. Depuis le nœud de contrôle, Ansible gère les machines et autres appareils à distance (par défaut, via le protocole SSH).

Vous n'avez pas besoin d'installer une base de données ou d'exécuter des démons. Ansible peut gérer toute une flotte de machines distantes à partir de ce nœud de contrôle. Ansible.

# 2 Playbook de base

#### 2.1 Timezone

- name: Set timezone and configure timesyncd

hosts: "\*"
become: yes

tasks:

- name: set timezone

shell: timedatectl set-timezone africa/casablanca

```
reotépve:/ansible/playbook# ansible-playbook timezone.yml -vvv --ask-become-passansible-playbook 2.7.7

config file = /stc/ansible/ansible.fig
configured module search path = ['\root/.ansible/plugins/modules', '\usr/share/ansible/plugins/modules']
ansible python module location = \usr/lib/python3/dist-packages/ansible
executable location = \usr/lib/python3/dist-packages/ansible
executable location = \usr/lib/python3/dist-packages/ansible
executable location = \usr/lib/python3/dist-packages/ansible
python wersion = 3.7.3 (default, Jan 22 2021, 20:04:44) [CCC 8.3.6]
Using /etc/ansible/hosts did not meet host_list requirements, check plugin documentation if this is unexpected
/stc/ansible/hosts did not meet script requirements, check plugin documentation if this is unexpected
/stc/ansible/hosts inventory source with ini plugin

PLAYBOOK: timezone.yml
what is your username?: lbrahimy
what is your password?:

PLAY [Set timezone and configure timesyncd]

**TASK [Gathering Facts]

**ControlPassword:**

**ControlPassword:**

**ControlPassword:**

**ControlPassword:**

**ControlPastword:**

*
```

Figure 1: synchronisation de timezone.

Figure 2: synchronisation de timezone.

```
ibrahimy@mysql:~/.ssh$ timedatectl status
Local time: mer. 2021–12–22 07:35:23 +01
Universal time: mer. 2021–12–22 06:35:23 UTC
RTC time: mer. 2021–12–22 07:35:23
Time zone: Africa/Casablanca (+01, +0100)
System clock synchronized: no
NTP service: active
RTC in local TZ: yes
```

Figure 3: synchronisation de timezone.

## 2.2 Uncomplicated Firewall (ufw)

```
- hosts: "*"
   remote-user: root
   become: yes
tasks:
   install basic tools - name: install UFW - Uncomplicated Firewall
   apt: name=ufw state=latest
   - name: set logging
   ufw: logging=on
   - name: allow port 22
   ufw: rule=allow port=22
   - name: allow port 80
   ufw: rule=allow port=80
   - name: enable ufw
   ufw: state=enabled policy=allow
   - name: Set firewall default policy
   ufw: state=enabled policy=reject
   become: true
```

Figure 4: installation et logging de ufw.

Figure 5: enable de port 22.

Figure 6: enable de port 80.

Figure 7: recap de ufw.

## 2.3 Install mysql server

```
- name: Install mysql server initialize
   hosts: dbserver
   gather-facts: false
   become: true
   vars:
   mysql-root-password: '***
   ansible-python-interpreter: /usr/bin/python3
   tasks:
   - name: Ensure required packages are installed
   apt:
   name:
   - mysql-server
   state: latest
   - name: Install Required pip modules
   pip:
   name:
   - PyMySQL
   state: present
   executable: pip3
   - name: Ensure mysql service is running
   systemd:
   name: mysqld
   state: restarted
   enabled: yes
   - name: Add .my.cnf to user home
   template:
   src: /root/ibrahimy/my.conf
   dest: /tmp/dump.sql
```