



ANSIBLE

Que es Ansible?

Herramienta de orquestación desarrollada por RedHat

- Automatiza el aprovisionamiento de software
- Gestión de configuraciones.
- Despliegue de aplicaciones

Links Interesantes:

- [Ansible - Documentación](#)
- [Ansible - Mejores Prácticas](#)
- [Ansible - Index Modules](#)
- [Ansible - Galaxy](#)

Antes:

- Instalación de apache (solo RHEL y derivados)
- Dependiente del manejador de paquetes
- Alta complejidad para que sea Idempotente

```
#!/bin/bash
# Shell script to install/configure Apache.

# Install Apache.
yum install --quiet -y httpd httpd-devel

# Copy configuration files.
cp /path/to/config/httpd.conf \
  /etc/httpd/conf/httpd.conf
cp /path/to/config/httpd-vhosts.conf \
  /etc/httpd/conf/httpd-vhosts.conf

# Start Apache.
service httpd start

# Set Apache to run on startup.
chkconfig httpd on
```

NO ENTIENDO...

...EN MI PC FUNCIONABA

```
[gferrer@cetus ejemplo_03]$ tree .
```

```
.
├── ansible.cfg
├── file
│   └── index.html
├── inventory
├── playbook.yml
└── README.md
```

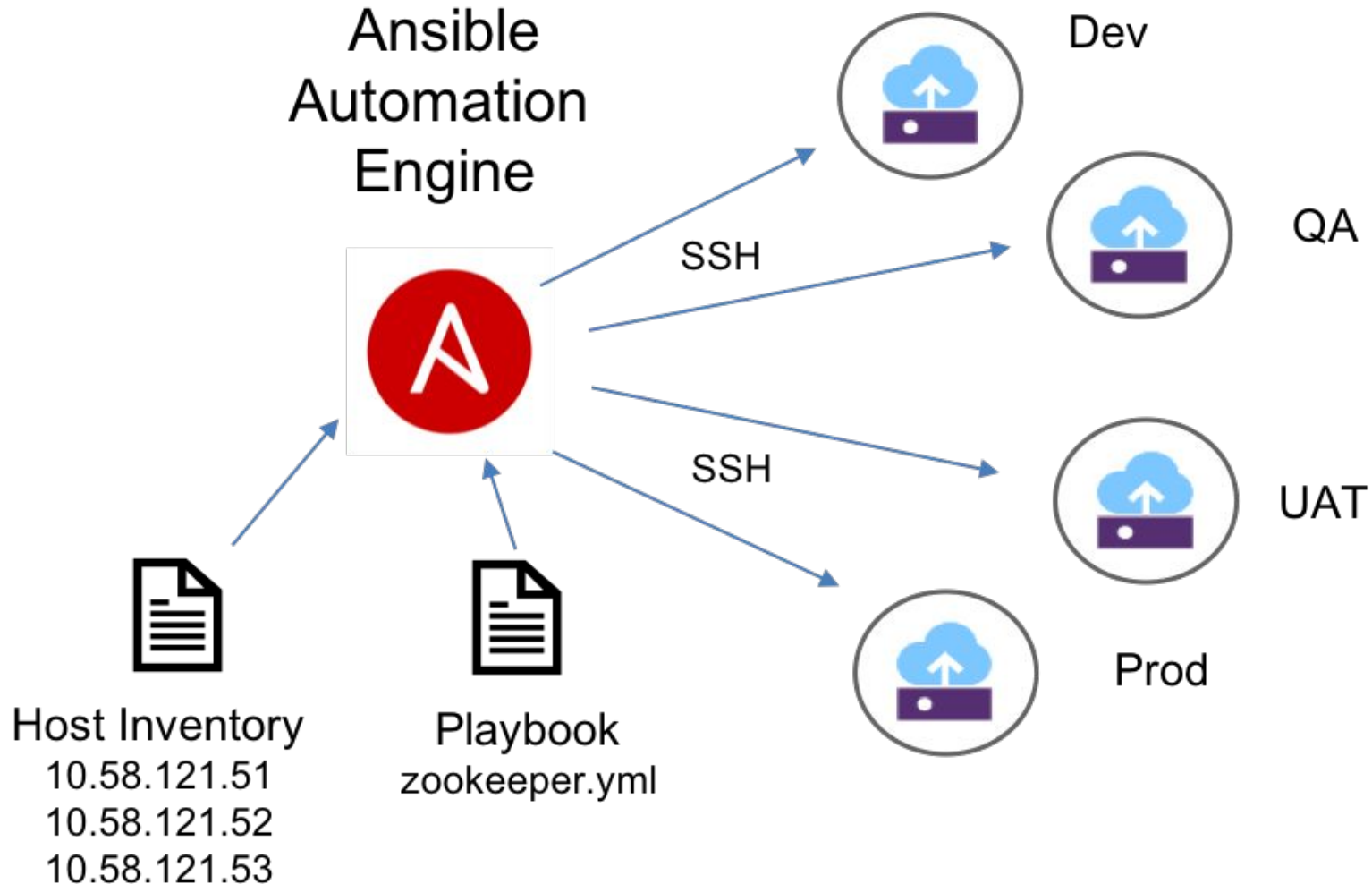
```
1 directory, 5 files
```

```
[gferrer@cetus ejemplo_03]$
```

```
playbook.yml x
1  ---
2  - hosts:
3    - all
4    tasks:
5      - name: "Set WEB_SERVICE dependiendo de la distro"
6        set_fact:
7          WEB_SERVICE: "{% if  ansible_facts['s_family']  == 'Debian'  %} 'apache2'
8                      {% elif ansible_facts['os_family'] == 'RedHat'  %} 'httpd'
9                      {% endif %}"
10
11     - name: "Instalando apache "
12       become: yes
13       package:
14         name: "{{ item }}"
15         state: present
16       with_items:
17         - "{{ WEB_SERVICE }}"
18
19     # Copio pagina web
20     - name: "Copiando mi pagina web"
21       become: yes
22       copy:
23         src: index.htm
24         dest: /var/www/html/index.html
25         owner: "www-data"
26         group: "www-data"
27         mode: 0644
28
29     #systemctl enable --now httpd
30     - name: "Habilitar y restartear {{ WEB_SERVICE }}"
31       become: yes
32       service:
33         name: "{{ WEB_SERVICE }}"
34         state: restarted
35         enabled: yes
36
```



Ansible Automation Engine



```
1  ---
2  - hosts:
3      - testing
4      - desarrollo
5      - produccion
6
7  tasks:
8      - name: "Mensaje 1"
9        debug:
10          msg: "Ejemplo de playbook - 01 "
11
12      - name: "Mensaje 2"
13        debug:
14          msg:
15            - "Soy: {{ ansible_hostname }}"
16            - "Estoy en el grupo: {{ hostvars[inventory_hostname].group_names }}"
17
```




inventory



```
1  [testing]
2  127.0.0.1
3
4  [desarrollo]
5  no-existe.com
6
7  [produccion]
8  localhost ansible_connection=local
9  |
```

```
[gferrer@cetus ejemplo_01]$ ansible-playbook -i inventory playbook.yml
[WARNING]: A duplicate localhost-like entry was found (localhost). First found localhost was 127.0.0.1

PLAY [testing,desarrollo,produccion] *****

TASK [Gathering Facts] *****
fatal: [no-existe.com]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: ssh: Could not resolve hostname no-existe.com: Name or service not known", "unreachable": true}
ok: [localhost]
ok: [127.0.0.1]

TASK [Mensaje 1] *****
ok: [127.0.0.1] => {
  "msg": "Ejemplo de playbook - 01 "
}
ok: [localhost] => {
  "msg": "Ejemplo de playbook - 01 "
}

TASK [Mensaje 2] *****
ok: [127.0.0.1] => {
  "msg": [
    "Soy: cetus ",
    "Estoy en el grupo: ['testing']"
  ]
}
ok: [localhost] => {
  "msg": [
    "Soy: cetus ",
    "Estoy en el grupo: ['produccion']"
  ]
}

PLAY RECAP *****
127.0.0.1      : ok=3    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
localhost     : ok=3    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
no-existe.com : ok=0    changed=0    unreachable=1    failed=0    skipped=0    rescued=0    ignored=0

[gferrer@cetus ejemplo_01]$
```