Ansible : Deployment Automation

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- ⊛ Play book

- ⊛   IT automation tool
  - ↳ Deploy app → Remote

- ⊛   SSH connecting to remote

⊛ ADVANTAGE OF COMPARISON
  - ↳ No need to install on dedicated machine

⊛ How ??
  - ↳ Connect to nodes
  - ↳ Push small programs ↗ Ansible module

What An. Modules ?   (small python)
- ⊛   Building blocks for building a playbook

What Playbook ?
- ⊛ Play book → Plays is a list

〰〰 /etc/ ansible/ hosts → [web server]
                                      ip
                                   [Prod server]
                                       ip

〰〰

CONFIGURATION FILE mms

$\boxed{\text{forks}} \rightarrow$ concurrent server $\Big\}$ How many ???
    push deployment to $\Big\}$

◉ Some configuration defaults.

    inventory , poll_intreval

    host_key_checking ∿ Disables SSH key checking

- ansible list hosts (all -- list-hosts)
- ansible connectivity (all -m ping)
        (particular group too)
- Execute a command on webserver

Become sudo ✗ (ansible webserver -m command -a "ls "
Become sudo ✔ (-s) depreciated
(Become) ✔ (-b).
        (ansible_become_pass)
        (-sudo_pass)

◉ SETUP MODULE ansible webserver -m setup -a " fiter=*ip* "

PLAYBOOK   hosts : web server
            remote_user : .
            become : yes
            become_method : Sudo
            gather_facts : yes
            tasks :
            - name install web server
              yum : pkg = httpd   state = present
              notify : restart_service

```yaml
- name: copy file
  copy: src=/home/--- dest=/home/
```

```yaml
handlers:
- name: restart_service
  service: name=httpd  state=restarted
```

```yaml
- name: verify if web server is running
  command: systemctl status nginx
  register: result
  ignore_errors: yes
- debug: var = result
```
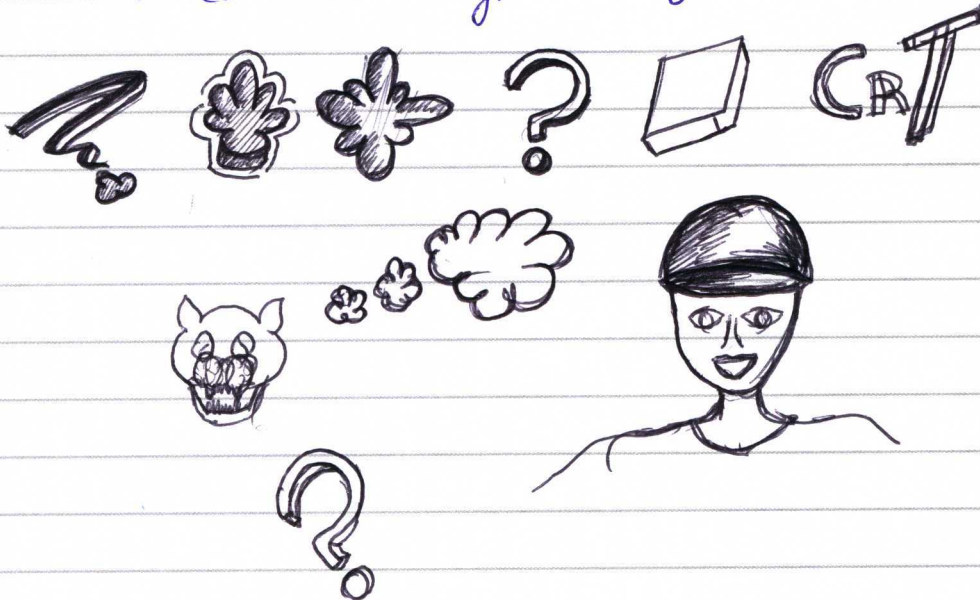
yml file

my ansible playbook <.yml &>

ansible-vault ⟶ Encrypt playbook files
   (AES 256)
ansible-vault encrypt <play book yml>

AWS ✛ ANSIBLE   (Production Environment)

~~~ AWS Load Balancer ✛ EC2 Servers

→ Role to a Playbook ⟶ create web server
                              ⟶ install application
   Does only those tasks

✛ Roles
       → Admin
       → database   web
       → security   ANSIBLE
       → tomcet   GALAXY
         webserver   ROLES
   * Allows you to share a role

✱ How To Use Roles ?   (GITHUB)
   command line   (geerlingguy)

         ansible-galaxy nginx

✛ Simple Play Book ⟶ tasks :
                                add EC2 to webservers
       → goto aws {
       → grab aws   ⌣ COMPARE TAG
            info   ⌣ STATE RUNNING
       → give back
            variable ⟵
            ↙
   Sperify them with
   var and add groups → Prod servers

              log as sudo