

ANSIBLE

The commands below will automate with ansible the process of installing docker, I am using an Ubuntu VM with IP 192.168.0.29 as the node and an Ubuntu VM with IP 192.168.0.33 as the target server.

>sudo apt install ansible

>sudo nano /etc/ansible/hosts

```
[servers]
ubuntu2 ansible_host=192.168.0.33
```

>cd ~/ansible

>nano install-docker.yml

```
root@ubuntu2010: /home/gustavo/ansible
GNU nano 5.2                                inst
---
- name: Install latest docker version
  hosts: all
  become: true

  tasks:
    - name: Install required system packages
      apt:
        pkg:
          - apt-transport-https
          - ca-certificates
          - curl
          - software-properties-common
          - python3-pip
          - virtualenv
          - python3-setuptools
        state: latest
        update_cache: true

    - name: Add docker GPG key
      apt_key:
        url: https://download.docker.com/linux/ubuntu/gpg
        state: present
```

```
- name: Add docker repository
  apt_repository:
    repo: deb https://download.docker.com/linux/ubuntu focal stable
    state: present

- name: Update apt and install docker-ce
  apt:
    name: docker-ce
    state: latest
    update_cache: true

- name: Install docker-cli
  apt:
    name: docker-ce-cli
    state: latest
    update_cache: true

- name: Install containerd.io
  apt:
    name: containerd.io
    state: latest
    update_cache: true
```

>su root

>cd ~

>ssh-keygen

In the target server there are two users, root:system32, gustavo:system32 in sudoers group

>ssh-copy-id root@192.168.0.33

On the target server I have to run:

>sudo dpkg --config -a

Back to the node server:

>su root

>ANSIBLE_DEBUG=1 ansible-playbook install-docker.yml

```
PLAY RECAP *****
ubuntu2 : ok=7    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Now in the target server:

```
>sudo docker run -p 8080:8080 -p 50000:50000 -v jenkins_home:/var/jenkins_home
jenkins/jenkins:lts-jdk11
```

The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `192.168.0.33:8080`. The page title is "Panel de control [Jenkins]". The main content area is titled "Panel de Control" and features a sidebar menu on the left with the following items: "Nueva Tarea", "Personas", "Historial de trabajos", "Administrar Jenkins", "Mis vistas", "Lockable Resources", and "New View". On the right, there is a "Todo" button and a table of jobs.

S	W	Nombre ↓
✓	⚙️	prueba
✓	⚙️	prueba1
✓	⚙️	prueba3