**Installing Docker on Ubuntu 18.04 VM using Ansible**

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# Useful links

|  |  |
| --- | --- |
| Official documentation | [Install Docker Engine on Ubuntu | Docker Documentation](https://docs.docker.com/engine/install/ubuntu/) |
| Post installation steps | [Post-installation steps for Linux | Docker Documentation](https://docs.docker.com/engine/install/linux-postinstall/#:~:text=%20To%20create%20the%20docker%20group%20and%20add,without%20sudo.%0A%24%20docker%20run%20hello-world%0AThis%20command...%20More%20) |

# Uninstallation of old docker version before running the ansible role

Check the Uninstall Docker Engine section in the first link provided above.

# Ansible role

* To create an ansible role run the command below, this command will create a directory named the same as the ansible role name you provided. The directory will contain subdirectories with specific files:
  + ansible-galaxy init docker\_installation

## Tasks:

|  |  |
| --- | --- |
| * - name: Install packages - Set up the repository * apt: * name: "{{ item }}" * state: latest * loop: * - 'apt-transport-https' * - 'ca-certificates' * - 'curl' * - 'gnupg' * - 'lsb-release' * notify: Update\_cache | Installation of the different packages and setting up the repository. |
| * - name: Add Docker’s official GPG key * apt\_key: * url: https://download.docker.com/linux/ubuntu/gpg * state: present | Adding the official Docker GPG key |
| * - name: Add Docker repository * apt\_repository: * repo: deb https://download.docker.com/linux/ubuntu bionic | Adding Docker repository |
| * - name: Install docker-ce * apt: * name: docker-ce * state: latest * notify: Update\_cache | Installation of the docker-ce |

## Handler

|  |  |
| --- | --- |
| * - name: Update\_cache * apt: * update\_cache: yes | Updating the cache |

# Running the ansible role

To run the previous ansible role, create an ansible playbook (yaml file) in the same directory where the ansible role is located, then copy and paste the following code:

|  |  |
| --- | --- |
| - name: Install docker    hosts: # Your hosts in the inventory file    remote\_user: root    become: yes    roles:    - docker\_installation | * Running the different tasks with root privileges * Run the following command to run the ansible role:   **ansible-playbook -i path\_to\_your\_inventory\_file path\_to\_the\_playbook** |

**Expected output** 