## **A playbook to install Docker and Docker Compose**

This is the whole playbook YAML content, and I will explain step by step:

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- hosts: all

remote\_user: ubuntu

become: true

tasks:

- name: install dependencies

apt:

name: "{{item}}"

state: present

update\_cache: yes

loop:

- apt-transport-https

- ca-certificates

- curl

- gnupg-agent

- software-properties-common

- name: add GPG key

apt\_key:

url: https://download.docker.com/linux/ubuntu/gpg

state: present

- name: add docker repository to apt

apt\_repository:

repo: deb https://download.docker.com/linux/ubuntu bionic stable

state: present

- name: install docker

apt:

name: "{{item}}"

state: latest

update\_cache: yes

loop:

- docker-ce

- docker-ce-cli

- containerd.io

- name: check docker is active

service:

name: docker

state: started

enabled: yes

- name: Ensure group "docker" exists

ansible.builtin.group:

name: docker

state: present

- name: adding ubuntu to docker group

user:

name: ubuntu

groups: docker

append: yes

- name: Install docker-compose

get\_url:

url: https://github.com/docker/compose/releases/download/1.29.2/docker-compose-Linux-x86\_64

dest: /usr/local/bin/docker-compose

mode: 'u+x,g+x'

- name: Change file ownership, group and permissions

ansible.builtin.file:

path: /usr/local/bin/docker-compose

owner: ubuntu

group: ubuntu

**or**

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- name: Install Docker

hosts: remote

vars:

CTOP\_VERSION: "0.7.3"

DOCKER\_COMPOSE\_VERSION: "1.25.1"

DOCKER\_PACKAGES:

- apt-transport-https

- ca-certificates

- curl

- gnupg-agent

- software-properties-common

USER: "YOUR\_USER\_ON\_THE\_REMOTE\_SERVER"

tasks:

- name: Update apt packages

apt:

update\_cache: "yes"

force\_apt\_get: "yes"

- name: Install packages needed for Docker

apt:

name: "{{ DOCKER\_PACKAGES }}"

state: present

force\_apt\_get: "yes"

- name: Add Docker GPG apt Key

apt\_key:

url: https://download.docker.com/linux/ubuntu/gpg

state: present

- name: Save the current Ubuntu release version into a variable

shell: lsb\_release -cs

register: ubuntu\_version

- name: Add Docker Repository

apt\_repository:

repo: "deb [arch=amd64] https://download.docker.com/linux/ubuntu {{ ubuntu\_version.stdout }} stable"

state: present

- name: Update apt packages

apt:

update\_cache: "yes"

force\_apt\_get: "yes"

- name: Install Docker

apt:

name: "docker-ce"

state: present

force\_apt\_get: "yes"

- name: Test Docker with hello world example

shell: "docker run hello-world"

register: hello\_world\_output

- name: Show output of hello word example

debug:

msg: "Container Output: {{hello\_world\_output.stdout}}"

- name: Create docker group

group:

name: "docker"

state: present

- name: Adding user {{ USER }} to docker group

user:

name: "{{ USER }}"

groups: "docker"

append: "yes"

- name: Install Docker Compose

get\_url:

url: https://github.com/docker/compose/releases/download/{{ DOCKER\_COMPOSE\_VERSION }}/docker-compose-Linux-x86\_64

dest: "/usr/local/bin/docker-compose"

mode: 0755

- name: Install Ctop

get\_url:

url: https://github.com/bcicen/ctop/releases/download/v{{ CTOP\_VERSION }}/ctop-{{ CTOP\_VERSION }}-linux-amd64

dest: "/usr/local/bin/ctop"

mode: 0755

- name: Reboot server in order for changes to take place

shell: "sleep 1 && reboot"

async: 1

poll: 0