1. Create a container command:

docker run –it –name [container name] –privileged –p [available port]:22 –v /home/[username]/Desktop/ansible/dir1:/home/ansible ubuntu /bin/bash

1. Run the container command:

docker start –i –a [container name]

1. Prepare the container to communicate with ansible

Create a user with of the same username with **sudo** permission in the manager node (your username on your VM) and set the same password to that user

Or if you want to use another username, you will mention it in the inventory file when you mention each server’s ip in the following format:

username@serverIP

Then, run the following command in the containerized server, you may need **sudo** permission:

apt install net-tools

apt install iproute2

apt install openssh-server

service ssh start  
  
To get the ip of a container, which is the **ip** of the server that will be used in **ssh** and **inventory** file of Ansible, run this command:  
  
docker inspect –f ‘{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}’ [containerf name]

Note: each command starts with docker should be run in the VM

**Generate SSH key**

ssh-keygen –t ed25519 –C “comment message”

command type comment

then add file name or stick to default by pressing enter, then add passphrase if you want, you will get a random shape and 2 files, public key and private key.

List /home/[user]/.ssh directory to see your ssh keys

**Copy SSH key to a targeted server**

ssh-copy-id –i ~/.ssh/id\_ed25519.pub 172.16.250.05

command inputFile targetedServer

Connect to a server

After copy the key to that server, using the following command

ssh 172.16.250.03

command targetedServer