

How to run ansible in a docker container.

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Download and run centos:

```
[root@nuc3 ~]# docker run -itd centos
Unable to find image 'centos:latest' locally
Trying to pull repository docker.io/library/centos ...
latest: Pulling from docker.io/library/centos
6910e5a164f7: Pull complete
Digest: sha256:4062bbdd1bb0801b0aa38e0f83dece70fb7a5e9bce223423a68de2d8b784b43b
Status: Downloaded newer image for docker.io/centos:latest
13c7b954cf2d217981b59a20c9143c442985c857dcc7617f37b3f3734a64be6b
```

Attach to the container:

```
[root@nuc3 ~]# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
docker.io/centos    latest             831691599b88       3 weeks ago        215 MB
[root@nuc3 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             (snipped)
13c7b954cf2d        centos              "/bin/bash"        (snipped)
[root@nuc3 ~]# docker attach 13c7b954cf2d
[root@13c7b954cf2d /]#
```

```
[root@13c7b954cf2d /]# yum update -y
(snipped)
[root@13c7b954cf2d /]# yum install epel-release
(snipped)
[root@13c7b954cf2d /]# yum install -y ansible
(snipped)
```

Install openssh:

```
[root@13c7b954cf2d ansible]# yum install -y openssh
(snipped)
[root@13c7b954cf2d ansible]# yum install -y openssh-clients
(snipped)
```

Generate key-pair:

```
[root@13c7b954cf2d ansible]# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Created directory '/root/.ssh'.
```

(snipped)

Test ansible:

(192.168.4.64 is a client to manage)

```
[root@13c7b954cf2d ansible]# ssh-copy-id root@192.168.4.64
```

(edit the host file: vi hosts)

```
[clients]
192.168.4.64
:wq!
```

(run adhoc command)

```
[root@13c7b954cf2d ansible]# ansible -m ping clients
192.168.4.64 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
```

Commit the container to a new image:

(leave the container by pressing <CTRL>PQ

```
[root@13c7b954cf2d ansible]# [root@nuc3 ~]#
```

(list the container id)

```
[root@nuc3 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED
STATUS              PORTS              NAMES
13c7b954cf2d       centos             "/bin/bash"        19 minutes ago
```

(commit the container)

```
[root@nuc3 ~]# docker commit 13c7b954cf2d
sha256:c9a10adab2f6990200dc19f85f4a4cecdcaf9c8e1283c7aa82c4f77186697c83
```

Tag the new container and remove the old one:

```
[root@nuc3 ~]# docker tag c9a10adab2f6 centos_ansible
[root@nuc3 ~]# docker rmi centos -f
[root@nuc3 ~]# docker images
REPOSITORY          TAG                 IMAGE ID
SIZE
centos_ansible     latest             c9a10adab2f6
```

