

# Create docker container

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- name: install docker and start it and create 2 container(nginx-mysql)
  hosts: all
  become: yes
  tasks:
    - name: Update system packages
      command: sudo dnf install -y yum-utils

    - name: Update system packages
      command: sudo dnf config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo

    - name: Update system packages
      command: sudo dnf install -y docker-ce docker-ce-cli containerd.io

    - name: start docker service
      systemd:
        name: docker
        state: started
        enabled: yes
        #enabled: yes ensures the service will start on boot

    - name: create 2 container (nginx - mysql)
      docker_container:
        name: "{{ item.name }}"
        image: "{{ item.image }}"
        state: started
      loop:
        - { name: "nginx_cont", image: "nginx" }
        - { name: "mysql", image: "mysql" }
```

```
[root@control adhamplaybooks]# vim docker.yml
[root@control adhamplaybooks]# ansible-playbook docker.yml --syntax-check

playbook: docker.yml
[root@control adhamplaybooks]# ansible-playbook docker.yml

PLAY [install docker and start it and create 2 container(nginx-mysql)] *****

TASK [Gathering Facts] *****
ok: [192.168.1.100]
ok: [192.168.1.101]

TASK [Update system packages] *****
changed: [192.168.1.100]
changed: [192.168.1.101]

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changed: [192.168.1.100]
changed: [192.168.1.101]

TASK [start docker service] *****
changed: [192.168.1.100]
changed: [192.168.1.101]

TASK [create 2 container (nginx - mysql)] *****
changed: [192.168.1.100] => (item={'name': 'nginx_cont', 'image': 'nginx'})
changed: [192.168.1.100] => (item={'name': 'nginx_cont', 'image': 'nginx'})
changed: [192.168.1.100] => (item={'name': 'mysql', 'image': 'mysql'})
changed: [192.168.1.100] => (item={'name': 'mysql', 'image': 'mysql'})
changed: [192.168.1.101] => (item={'name': 'nginx_cont', 'image': 'nginx'})
changed: [192.168.1.101] => (item={'name': 'nginx_cont', 'image': 'nginx'})
changed: [192.168.1.101] => (item={'name': 'mysql', 'image': 'mysql'})
changed: [192.168.1.101] => (item={'name': 'mysql', 'image': 'mysql'})
```

Activate Windows  
Go to Settings to activate Windows.

```
[root@man3 ~]# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS              PORTS          NAME
9b0782e44f31   mysql    "docker-entrypoint.s..." 51 seconds ago Exited (1) 47 seconds ago           mysq
l
52cd19bddcab   nginx    "/docker-entrypoint..." 8 minutes ago  Up 8 minutes       80/tcp         ngin
x_cont
[root@man3 ~]#
```

```
[root@man4 ~]# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS              PORTS          NAME
44fcc58f9948   mysql    "docker-entrypoint.s..." 50 seconds ago Exited (1) 46 seconds ago           mysq
l
44d9a0fc4111   nginx    "/docker-entrypoint..." 8 minutes ago  Up 8 minutes       80/tcp         ngin
x_cont
[root@man4 ~]#
```