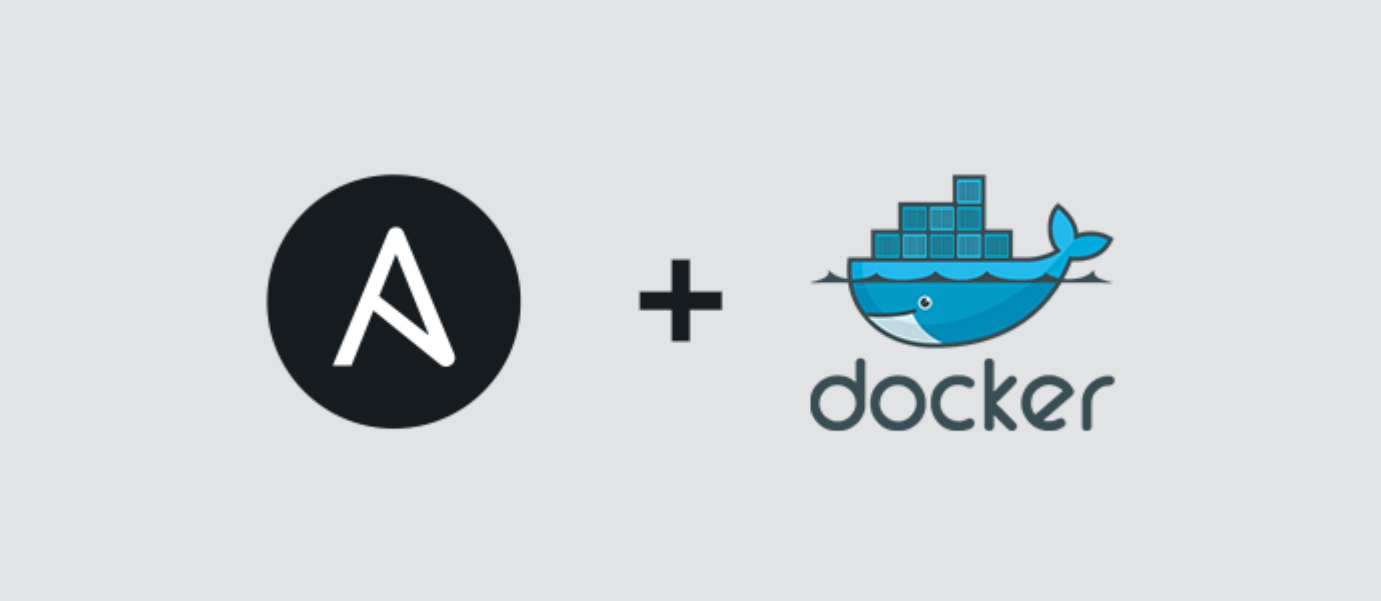
Task 14.2 : Continuation of Task 10+ Retrieving the Container Ip



First Setup the playbook for Installing Docker then just add code to retrieve the container IP

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```
[root@MiWiFi-R3L-srv ~]# ansible --version
ansible 2.10.6
  config file = None
  configured module search path = ['/root/.ansible/plugins/modules', '/usr
  ansible python module location = /usr/local/lib/python3.6/site-packages/
  executable location = /usr/local/bin/ansible
  python version = 3.6.8 (default, Jan 11 2019, 02:17:16) [GCC 8.2.1 20180
[root@MiWiFi-R3L-srv ~]#
```

Check Ansible Version

```
[root@MiWiFi-R3L-srv ansible]# ansible --version
ansible 2.10.6
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/local/lib/python3.6/site-packages/ansible
  executable location = /usr/local/bin/ansible
  python version = 3.6.8 (default, Jan 11 2019, 02:17:16) [GCC 8.2.1 20180905 (Red Hat 8.2.1-3)]
```

Check for hosts

```
[root@MiWiFi-R3L-srv ~]# ansible all --list-hosts
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
  hosts (0):
```

Configure ansible.cfg

Task 10 code: To install Docker using Ansibler

```
- hosts: localhost
  tasks:
  - name: " Docker Repository"
    yum_repository:
        name: "Docker"
        description: "Docker Repo"
        baseurl: "https://download.docker.com/linux/centos/7/x86_64/stable"
        gpgcheck: "no"

  - name: "Installing docker package"
    package:
        name: "docker-ce-18.09.1-3.el7.x86_64"
        state: present

  - name: "Starting docker"
    service:
        name: "docker"
        state: started
        enabled: yes

  - name: "Installing Python3"
    package:
        name: "python3"
        state: present

  - name: "Installing Docker SDK"
    command: "pip3 install docker"

  - name: "Creating Folder And Copying File In Folder"
    file:
        path: "/datafile"
        state: directory

  - name: "Copying File From Local"
    copy:
```

Then for retrieving the IP address

```
        src: "index.html"
        dest: "/datafile/"

  - name: "Creating Container"
    docker_container:
        name: "webserver"
        image: "httpd"
        state: started
        exposed_ports:
        - "80"
        ports:
        - "1234:80"
        volumes:
        - /datafile:/usr/local/apache2/htdocs/
  - name: "Info of the container"
    docker_container_info:
      name: "httpd"
    register: result

  - name: "debugging the result"
    debug:
      msg: "{{ result }}"

  - name: Printing IP address
    debug:
      msg: "{{ result.container.NetworkSettings.IPAddress }}"

  - name: updating the container Ip in the inventory dynamically
    blockinfile:
      path: /root/myhost.txt
      block: |
            [docker]
            {{ result.container.NetworkSettings.IPAddress }} ansible_user=root ansible_ssh_pass=1234 ansible_connection=ssh
```

Now running the playbook

```
[root@MiWiFi-R3L-srv ansible_ws]# ansible-playbook Docker.yml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [localhost] ***************************************************************************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************************************************************************
ok: [localhost]

TASK [Docker Repository] *******************************************************************************************************************************************************
ok: [localhost]

TASK [Installing docker package] ***********************************************************************************************************************************************
ok: [localhost]

TASK [Starting docker] *********************************************************************************************************************************************************
ok: [localhost]

TASK [Installing Python3] ******************************************************************************************************************************************************
ok: [localhost]

TASK [Installing Docker SDK] ***************************************************************************************************************************************************
changed: [localhost]

TASK [Creating Folder And Copying File In Folder] ******************************************************************************************************************************
ok: [localhost]

TASK [Copying File From Local] *************************************************************************************************************************************************
ok: [localhost]

TASK [Creating Container] ******************************************************************************************************************************************************
[DEPRECATION WARNING]: The container default behavior option will change its default value from "compatibility" to "no defaults" in community.docker 2.0.0. To remove
this warning, please specify an explicit value for it now. This feature will be removed from community.docker in version 2.0.0. Deprecation warnings can be disabled by
setting deprecation_warnings=False in ansible.cfg.
ok: [localhost]

TASK [Info of the container] ***************************************************************************************************************************************************
```

Finally getting the output

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Activities Text Editor Thu 13:37

Open host.txt

```
[Docker]
{{ result['container']['NetworkSettings'][IPAddress']}}ansible_user=root ansible_ssg_pass=1234 ansible_connection=ssh
```