

ansible-galaxy role init displayhealth

cd displayhealth

tasks/main.yml

```
- name: Include task to install Docker
  include_tasks: docker_install.yml

- name: Include task to get Docker status and container details
  include_tasks: get_docker_status.yml
```

tasks/docker_install.yml

```
- name: Install prerequisites on RedHat
  dnf:
    name: dnf-plugins-core
    state: present
  when: ansible_os_family == "RedHat"

- name: Add Docker CE repo on RedHat
  get_url:
    url: "{{ docker_repo_url_redhat }}"
    dest: /etc/yum.repos.d/docker-ce.repo
  when: ansible_os_family == "RedHat"
  notify: Restart Docker

- name: Install Docker packages on RedHat
  dnf:
    name: "{{ docker_packages_redhat }}"
    state: present
  when: ansible_os_family == "RedHat"
  notify: Restart Docker

- name: Install prerequisites on Debian
  apt:
    name:
```

```
- apt-transport-https
- ca-certificates
- curl
- gnupg
- lsb-release

state: present

when: ansible_os_family == "Debian"

- name: Add Docker GPG key on Debian

apt_key:
  url: "{{ docker_repo_key_url_debian }}"
  state: present
  when: ansible_os_family == "Debian"

- name: Add Docker repository on Debian

apt_repository:
  repo: "deb [arch=amd64] {{ docker_repo_url_debian }} {{ ansible_lsb.codename }} stable"
  state: present
  when: ansible_os_family == "Debian"
  notify: Restart Docker

- name: Install Docker packages on Debian

apt:
  name: "{{ docker_packages_debian }}"
  state: present
  when: ansible_os_family == "Debian"
  notify: Restart Docker

- name: Enable and start Docker service

systemd:
  name: docker
  enabled: true
  state: started
```

tasks/get_docker_status.yml

```
- name: Check Docker is installed
  command: docker --version
  register: docker_version
  ignore_errors: yes

- name: Print Docker version
  debug:
    var: docker_version.stdout

- name: Get list of running Docker containers
  command: >
    docker ps --format "{{ '{{.Names}}'\t '{{.Status}}'\t '{{.Image}}' }}"
  register: docker_ps_output
  changed_when: false

- name: Display container status
  debug:
    var: docker_ps_output.stdout_lines
```

var/main.yml

```
docker_repo_url_redhat: https://download.docker.com/linux/centos/docker-ce.repo
docker_repo_url_debian: https://download.docker.com/linux/ubuntu
docker_repo_key_url_debian: https://download.docker.com/linux/ubuntu/gpg
```

default/main.yml

```
docker_packages_redhat:
  - docker-ce
  - docker-ce-cli
  - containerd.io
```

- docker-buildx-plugin
- docker-compose-plugin

docker_packages_debian:

- docker-ce
- docker-ce-cli
- containerd.io
- docker-buildx-plugin
- docker-compose-plugin

handler/main.yml

- name: Restart Docker

systemd:

name: docker

state: restarted

meta/main.yml

galaxy_info:

author: Amit

description: Ansible role to install Docker and display container status.

company: OW

license: MIT

min_ansible_version: 2.9

dependencies: []

Assignment

Publish the role

Git add,commit ,push and add role to galaxy

Create a playbook to test role

