Here’s a **complete lab setup** for deploying and validating a website using **Dockerized NGINX on CentOS** via Ansible. This includes:

**3. Create index.html Content**

**mkdir files**

files/index.html:

<!DOCTYPE html>

<html>

<body>

<h1>Hello from Ansible</h1>

</body>

</html>

**5. Main Playbook: deploy\_website.yaml**

- name: Deploy and validate a website using Docker NGINX

hosts: remotes

become: yes

vars\_files:

- vault.yaml

vars:

website\_path: /opt/website

site\_url: http://localhost:81

test\_file\_path: /tmp/test-index.html

expected\_text: "Hello from Ansible"

tasks:

- name: Create website directory

file:

path: "{{ website\_path }}"

state: directory

mode: '0755'

- name: Copy website files to remote host

copy:

src: files/index.html

dest: "{{ website\_path }}/index.html"

- name: Run NGINX container with mounted website directory

community.docker.docker\_container:

name: nginx-site

image: nginx

state: started

restart\_policy: always

ports:

- "81:80"

volumes:

- "{{ website\_path }}:/usr/share/nginx/html:ro"

- name: Wait for NGINX to be available on port 81

wait\_for:

port: 81

timeout: 30

- name: Fetch the index page

get\_url:

url: "{{ site\_url }}"

dest: "{{ test\_file\_path }}"

force: yes

- name: Display success message

debug:

msg: "Website deployed and validated successfully!"

**6. Install Required Collections**

ansible-galaxy collection install community.docker

**7. Run the Playbook**

ansible-playbook -i inventory.ini deploy\_website.yaml --ask-vault-pass