documentation of my project  
  
Certainly! Here's a step-by-step documentation for your project:

**Step 1: Project Setup**

1. \*Create Project Directory:\*

bash

mkdir my-docker-project

cd my-docker-project

2. \*Organize Project Structure:\*

plaintext

my-docker-project/

|-- ansible/

| |-- inventory/

| | |-- hosts

| |-- playbooks/

| |-- deploy.yml

|-- docker/

| |-- app1/

| |-- Dockerfile

| |-- app1-content/

| |-- app2/

| |-- Dockerfile

| |-- app2-content/

|-- README.md

**Step 2: Docker Container Setup**

3. \*Create Dockerfiles:\*

- Create docker/app1/Dockerfile:

dockerfile

FROM nginx:latest

COPY ./app1-content /usr/share/nginx/html

- Create docker/app2/Dockerfile:

dockerfile

FROM nginx:latest

COPY ./app2-content /usr/share/nginx/html

**Step 3: Ansible Setup**

4. \*Create Ansible Inventory:\*

- In ansible/inventory/hosts, define your hosts:

ini

[web]

localhost ansible\_connection=local

5. \*Write Ansible Playbook:\*

- Create ansible/playbooks/deploy.yml:

yaml

---

- name: Deploy Docker containers

hosts: web

become: true

tasks:

- name: Install Docker

apt:

name: docker.io

state: present

- name: Build and run app1 container

docker\_container:

name: app1\_container

image: app1\_image

build:

context: ../docker/app1

state: started

- name: Build and run app2 container

docker\_container:

name: app2\_container

image: app2\_image

build:

context: ../docker/app2

state: started

**Step 4: Build and Run**

6. \*Run Ansible Playbook:\*

- Execute the playbook to deploy containers:

bash

ansible-playbook -i ansible/inventory/hosts ansible/playbooks/deploy.yml

7. \*Access Web Applications:\*

- Check the IP address or domain of your host machine with the exposed ports of your containers.

**Conclusion**

You have successfully set up a multi-container application using Docker and managed the deployment process with Ansible. Customize the content, paths, and configurations based on your specific project requirements. For more details on Docker and Ansible, refer to their official documentation:

- [Docker Documentation](https://docs.docker.com/)

- [Ansible Documentation](https://docs.ansible.com/)

Feel free to update the README.md file with any additional information or specific instructions for your project.