AUTOMATED HANDLING OF DOCKER IMAGES

Task: Write an Ansible playbook to load, tag and push the containers (images as tar files) to a defined registry

Requirements:

- Create an inventory file with the required hosts
- Create playbooks to load, tag and push the images to the registry
- Instructions should cover ansible commands, playbooks to run the playbooks along with the use of variables, config files, etc.

The following **Ansible** playbook will automate the process of loading, tagging, and pushing Docker images to a registry from an EC2 instance.

The project directory structure follows best practices and includes separate files for variables, playbooks, and inventory. Make sure to customize the variables as per your environment (EC2 instance IP, Docker image paths, and registry details).

1. Setting up the environment (installing Ansible and setting up SSH keys).
2. Creating an Ansible playbook for loading, tagging, and pushing Docker images.
3. Setting up the directory structure for the project.

Install Ansible on EC2 Instance (EC1 & EC2)

Run the following commands on both EC2 instances to install Ansible.

```
# Update the apt package index
sudo apt update -y

# Install dependencies
sudo apt install -y software-properties-common

# Add the Ansible PPA (Personal Package Archive)
sudo add-apt-repository --yes ppa:ansible/ansible

# Update the package index again
sudo apt update -y

# Install Ansible
sudo apt install -y ansible
```

After Ansible is installed, you can check the version with:

```
ansible --version
```

Running the Playbook

1. **Navigate to the project directory**:

   ```
   cd ansible-docker-automation
   ```

2. **Run the playbook**:

   ```
   ansible-playbook playbooks/docker.yml
   ```