

# VagrantFlaskDockerize

A simple yet powerful tool designed to streamline the deployment of Flask applications using Docker containers, all within an isolated VirtualBox environment managed by Vagrant and provisioned with Ansible.

## Getting Started

These instructions will guide you through setting up your local development environment to run and deploy a Flask application in a Docker container.

### Prerequisites

Ensure the following tools are installed on your system before you proceed: - **VirtualBox**: [Download VirtualBox](#) - **Vagrant**: [Download Vagrant](#)

### Installation

#### 1. Start the Vagrant VM

Change into the directory containing the

```
Vagrantfile
```

and execute the following command:

```
vagrant up --provision
```

This step will create and configure the guest machine as per the Vagrantfile and automatically provision it with Docker and the necessary dependencies using the included Ansible playbook.

#### 2. Access the Virtual Machine

To SSH into the VM, use the following command:

#### 3. Windows (PowerShell):

```
ssh -i .\vagrant\machines\default\virtualbox\private_key  
vagrant@127.0.0.1 -p 2222
```

#### 4. Linux/macOS:

```
ssh -i ../vagrant/machines/default/virtualbox/private_key  
vagrant@127.0.0.1 -p 2222
```

Inside the VM, you can view the running Docker containers with:

```
sudo /snap/bin/docker ps
```

## Usage

This section provides detailed examples of how to use your application, including any additional steps to access its features.

### Accessing the Application

To access the Flask application, open <http://localhost:5000/> on your browser on the host machine.