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# [VAGRANT AND ANSIBLE]

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## **## 1. Introduction**

### **### Project Overview**

This document provides documentation for the Vagrant and Ansible project that deploys multiple applications on virtual machines. The project includes setup and provisioning for three different applications:

1. **\*\*Appflowy\*\***: A sample application.
2. **\*\*RocketChat.ReactNative\*\***: The React Native client for Rocket.Chat.
3. **\*\*RocketChat\*\***: The Rocket.Chat server.

## **## 2. Getting Started**

### **### Prerequisites**

Before starting the project, ensure you have the following software installed on your local machine:

- Vagrant
- Ansible

### **### Project Setup**

1. Clone this project repository to your local machine.
2. Navigate to the project directory:
3. Ansible will provision the virtual machines and configure them according to the playbooks and roles defined in the `ansible/` directory.

### **### Application Access**

- **\*\*Appflowy\*\***: Access at [<http://appflowy.local>](<http://appflowy.local>).

- **\*\*RocketChat.ReactNative\*\***: Access as specified in your application's documentation.
- **\*\*RocketChat\*\***: Access as specified in your Rocket.Chat server documentation.

### **## 3. Playbooks and Roles**

#### **### Appflowy**

- ``appflowy_playbook.yml``: Playbook for configuring and deploying Appflowy.

Customize this playbook to suit your specific requirements for the Appflowy application.

#### **### RocketChat.ReactNative**

- ``rocketchat_react_native_playbook.yml``: Playbook for configuring and deploying RocketChat.ReactNative.

Customize this playbook to suit your specific requirements for the RocketChat.ReactNative application.

#### **### RocketChat**

- ``rocketchat_playbook.yml``: Playbook for configuring and deploying the RocketChat server.

Customize this playbook to suit your specific requirements for the RocketChat server.

### **## 4. Ansible Roles and Collections**

We manage Ansible roles and collections using the ``requirements.yml`` file. You can install them with the following command:

### **## 5. Issues and Contributions**

#### **### Reporting Issues**

If you encounter any issues or have suggestions for improvement, please report them by [opening an issue](https://github.com/<your\_repo>/issues).

### ### Contributing

You are welcome to contribute to this project by creating pull requests.

## ## 6. License

This project is licensed under the MIT License. See the [LICENSE](LICENSE) file for details.

## ## 7. Appendix

### ### Appendix A: Project Directory Structure

The project directory structure is organized as follows:

- `vagrant/`: Contains the Vagrant configuration files.
- `ansible/`: Contains Ansible playbooks, inventory, and configuration.

### ### Appendix B: Sample Vagrantfile

```
``ruby
```

[Insert Sample Vagrantfile Here]