# ansible-flow Documentation

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Ansible-flow is a simple utility to help make ansible easier to use with a specific set of production use-cases.

If you need to do the following, then ansible-flow might be for you:

- Use the same playbooks against multiple environments
- Use bastions in your deployment
- Run a collection of playbooks in sequence.

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# **Contents:**

# 1.1 Installing ansible-flow

ansible-flow is available on PyPI and can be installed using:

```
pip install ansible-flow
```

# 1.2 Configuration

ansible-flow looks for a project.yml file within the executing directory.

Each project.yml file contains three different sections:

- · requirements
- · environments
- targets

# 1.2.1 Requirements

The requirements section is where you define any python requirements (in a list) that you will need to execute your ansible playbooks. For simple use-cases you should only need to define ansible or ansible == 2.1.0.

#### Example:

```
requirements:
- ansible==2.1.0
```

#### 1.2.2 Environments

The environments section is where you define specific for custom variable files, vault keys, and ansible configuration files on a per environment basis.

If you have a number of common values that you'd like to share across environments, then you can specify a default environment. If a default environment is specified then all other environments will just layer their settings on-top of the default.

#### **Per Environment Options**

- vault-key: Path to your vault password file
- custom-var-files: A list of YAML files to load when executing your playbooks. You can also use file globs in each entry.
- directory: A base directory for your custom-var-files
- ansible-config: Path to a ansible configuration file
- shell-variables: Key value pairs of environmental variables to be used when executing ansible

#### **Example**

A environments section containing two different environments each with a file encrypted with two different vault keys.

#### **Directory Structure**

#### Environments section of project.yml

### 1.2.3 Targets

The targets section allows for you to define a set of playbooks to be executed.

#### **Per Target Options**

- playbooks: A list of playbooks to be executed in sequential order.
- inventory: The inventory script or ini file you wish to use.
- tags: Tags you wish to pass to ansible
- ansible-options: Custom cli arguments for ansible-playbook

#### **Example**

```
targets:
   ping:
     playbooks:
        - ping.yml
      inventory: ./inventory.ini
   bootstrap:
      playbooks:
        - bootstrap.yml
        - 2fa.yml
      inventory: ./inventory.ini
```

### 1.2.4 Example Configuration

```
requirements:
   - ansible==2.1.0
environments:
   default:
        custom-var-files:
            - general.yml
            - auth.vault.yml
   dev:
        directory: ./envs/dev
        vault-key: ./dev-vault-key
        directory: ./envs/test
        vault-key: ./test-vault-key
targets:
   ping:
        playbooks:
           - ping.yml
        inventory: ./inventory.ini
   bootstrap:
        playbooks:
            - bootstrap.yml
            - 2fa.yml
        inventory: ./inventory.ini
```

# 1.3 Using ansible-flow

## 1.3.1 Project virtual environment for ansible-flow

ansible-flow will execute all of its actions under a virtual environment. This allows for you to pin specific versions ansible and any other dependencies. ansible-flow can maintain the virtual environment for you using the very sub-command.

**Note:** The packages installed into the virtual environment are defined in the requirements section of your project.yml

### Working with ansible-flow's venv sub-command

```
# Create a fresh virtual environment
ansible-flow venv create

# Recreates the virtual environment (commonly used when you change dependencies)
ansible-flow venv recreate

# Completely deletes the virtual environment
ansible-flow venv delete
```

# 1.3.2 Running ansible-flow

Assuming you've written your project.yml configuration, you can execute a target against a given environment using the following command:

```
ansible-flow run ping --env dev
```

**Note:** ansible-flow is not affiliated with the ansible project in any way.

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Links:

• GitHub: https://github.com/jmvrbanac/ansible-flow

8 Chapter 2. Links:

# CHAPTER 3

# Indices and tables

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