Suitable Documentation

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An Ansible API for humans.

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Introduction

Ansible is a configuration management tool written in Python. Even though it is written in Python its configuration syntax is decidedly un-pythonic.

To write ansible configuration is to write YAML files. Suitable *does not* try to change that. Suitable tries to be a simple Ansible API abstraction in Python.

With Suitable you can write Python code that has easy access to the plethora of modules that Ansible offers. As such it is great for scripts that automate migrations, upgrades or other little tasks.

Suitable is not an alternative to Ansible, it is a tool to complement it. Do not use Suitable to manage your server fleet. Use Suitable to boss your servers around from time to time.

Warning

Suitable is not endorsed by Ansible and it is not affilated with it. Use at your own peril.

The official way to use Ansible from Python is documented here: http://docs.ansible.com/ansible/developing_api.html

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Installation

To install suitable, simply use pip. This will install Ansible 2.x automatically as a dependency:

```
pip install suitable
```

Examples

Create the user 'denis' on 'web.seantis.dev' and 'db.seantis.dev':

```python
from suitable import Api

hosts = Api(['web.seantis.dev', 'db.seantis.dev'])
hosts.user(name='denis')
```

Create the user 'postgres' on 'db.seantis.dev':

```python
dbhost = Api('db.seantis.dev')
dbhost.user(name='postgres')
```

List the mounts on 'backup.seantis.dev':

```python
backuphost = Api('backup.seantis.dev')
backuphost.setup(filter='ansible_mounts')
```

Connect to a server using a username and a password:

```python
from getpass import getpass

username = 'admin'
password = getpass()

api = Api(
    'web.seantis.dev',
    remote_user=username,
    remote_pass=password
)

print api.command('whoami').stdout()  # prints 'admin'
```

Run a command on multiple servers and get the output for each:

```
servers = ['a.example.org', 'b.example.org']

api = Api(servers)
result = api.command('whoami')

for server in servers:
    print result.stdout(server)
```

Which Modules are Available?

All of them! Suitable is a wrapper around all Ansible modules. Here's a list of all Ansible modules:

http://docs.ansible.com/ansible/modules_by_category.html

Say you want to use the file module, which is documented here:

http://docs.ansible.com/ansible/file_module.html

Take the first example of the file module:

```
- file: path=/etc/foo.conf owner=foo group=foo mode=0644
```

It can be directly translated into the following Suitable call:

```
api.file(path='etc/foo.conf', owner='foo', mode='0644')
```

This works for any Ansible module.

More Documentation

More documentation is coming.

For now have a look at Suitable's Api class to learn more:

api.

Source

https://github.com/seantis/suitable

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License

Suitable is released under GPLv3 (compatible with Ansible).