

ANSIBLE



Contributing to Ansible

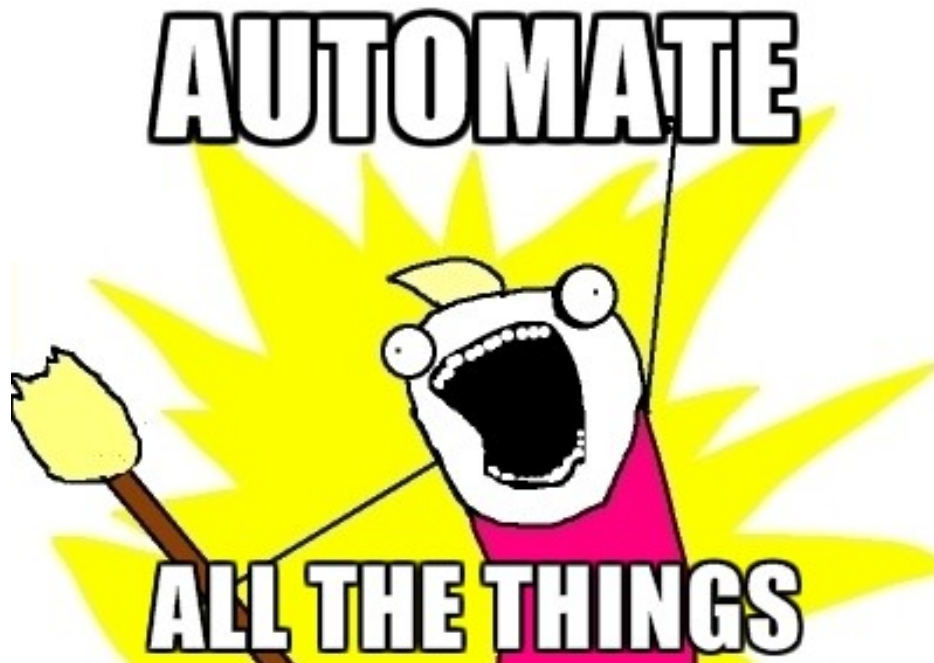
Developing Ansible Modules

....wait a min....what the heck is Ansible?

- software platform for CM systems
- Agentless
- Secure
- Scalable



....so what can we do with ansible?



- package installation
- shell commands
- install/update package
- management systems, clone git
- stop, start, re-start service

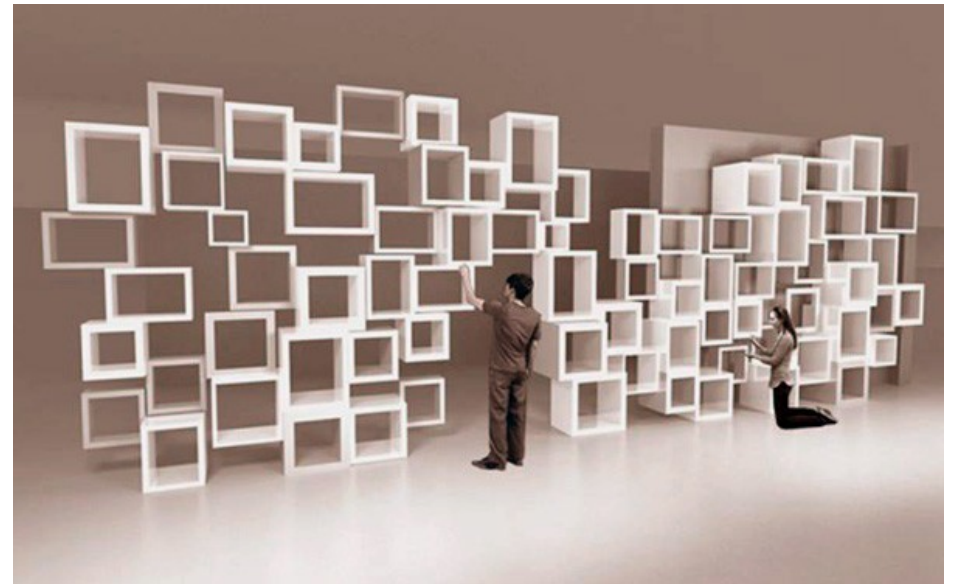
.....also ansible comes with batteries included!!



- Ansible comes bundled with nearly all the mostly used applications/protocols etc in computing world.  
[http://docs.ansible.com/list\\_of\\_all\\_modules.html](http://docs.ansible.com/list_of_all_modules.html)
-

...need any thing out of the box??

write down our own custom  
modules....and the best  
part...guess??





# ....cool...seems interesting, so what are the different components of a module?

Though ansible modules can be written in any language, we will stick to Python in this post. In Python, a module is generally a single file with 3 different parts:

- **Documentation:** A multiline string literal and a valid YAML document. It contains the detailed description of module.
- **Logic:** The programatic way to perform task and uses various resources provided by Ansible.
- **Ansible framework:** bunch of basic utilities to perform its tasks, imported by all modules using the following import statement:

```
from ansible.module_utils.basic import *
```



...let's try bulding some custom  
modules..



# files hosted on github....

- <https://github.com/hellodk>
- repository : ansible-meetup-bangalore

# Basic configurations

1. From the file `/etc/ansible/ansible.cfg`, uncomment the line

```
library = /usr/share/ansible
```

2. In the file `/etc/ansible/hosts`

create an entry with `127.0.0.1`

# ...steps to follow

1. Create a new directory inside `/usr/share/ansible/`

```
sudo mkdir external
```

2. Make a new file, inside the external directory

```
sudo vi test_module
```

3. Now you can write your yml based play-book

```
vi test_playbook.yml
```

....executing the module via  
playbook

```
$ ansible-playbook test.yml
```

```
dk@typHooN:~/git/ansible-meetup-bangalore$ ansible-playbook test_yaml.yml -v
PLAY [127.0.0.1] *****
TASK: [Calling test_module] *****
ok: [127.0.0.1] => {"changed": false, "text": "Hello World!"}
TASK: [Calling success via test_module] *****
ok: [127.0.0.1] => {"changed": false, "text": "success is"}
TASK: [Calling fail via test_module] *****
failed: [127.0.0.1] => {"failed": true}
msg: success is
FATAL: all hosts have already failed -- aborting
PLAY RECAP *****
to retry, use: --limit @/home/dk/test_yaml.retry
127.0.0.1 : ok=2 changed=0 unreachable=0 failed=1
dk@typHooN:~/git/ansible-meetup-bangalore$
```

.....all yours...

give a shout for any queries/questions

Thanks!!

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