## 初學 fabric

qrtt1 2012.10.15

### fabric 與我

● 我是個快樂的小 RD, 直到我膝蓋中了一箭。

I am the king of the world server administrator.

### Server Admin

- 管 server 都在玩些什麼
  - @ deploy the java web application
  - maintain various settings on the server
  - be a watchdog for many purposes

### Shell scripts

- fabric 能幫你做的,用 shell scripts 也行
- 傳說 server admin 都要會寫 shell script

### But,

o qrtt One 的 shell script 程度太差...

#!/bin/sh
python run.py

### fabric

- http://docs.fabfile.org
- Fabric is a Python (2.5 or higher) library and command-line tool for streamlining the use of SSH for application deployment or systems administration tasks.

### using fabric as cmd

```
fab -H s1,s2 -- uptime

fab -P -H s1,s2 -- uptime

fab -w -P -H s1,s2 -- uptime

fab ${OPTS} -- ${COMMANDS}
```

## using fabric api

- 有哪些 function 可以用!? 看 code 比看文件更直覺:D
- fabric/api.py
  - https://github.com/fabric/fabric/blob/master/ fabric/api.py

#### fabric / fabric / api.py 🗈

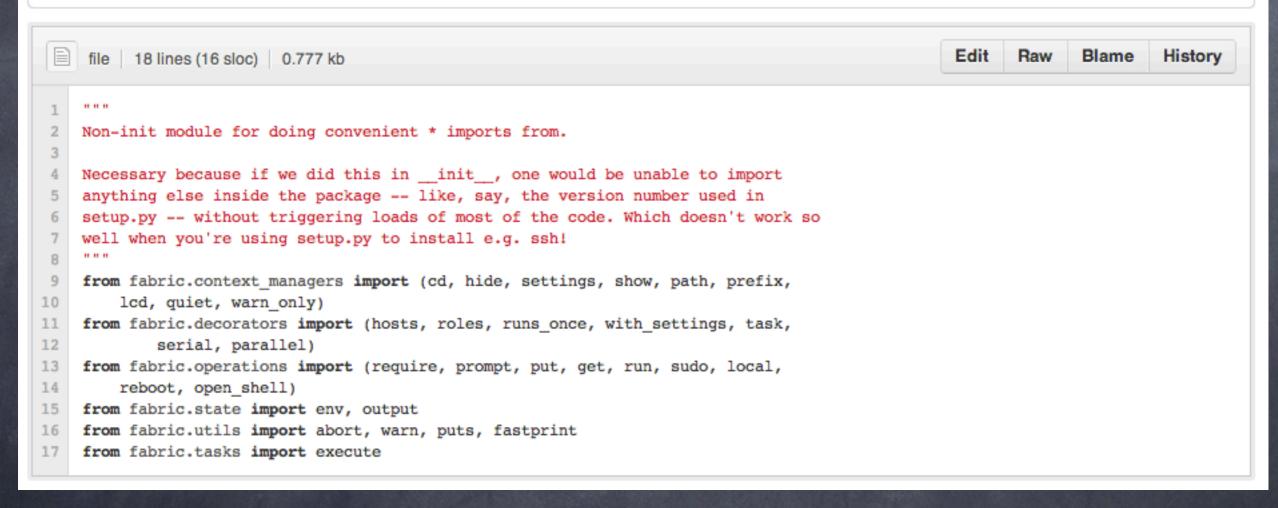


bitprophet 3 months ago Add warn\_only to fabric.api

2 contributors 🔯 🔞







do something local script remote script

which context

who where

how to execute parallel sequence

do something local script remote script

該做的事就如同原本寫 shell script 那般。 改用 fabric api 寫,也許只是多了一點 python 而有親切感 單純評論它,只 remote script 稍為便利罷了。

from fabric.api import run, task

@task
def uptime():
 run("uptime")

利用 context 概念,將『指令』的『執行者』、『執行位置』抽離, 去掉了『雜念』的 task 更容易被 reuse, 更有機會成為任意組合的『樂高積木』

from fabric.api import run, task, env

env.user = 'qrtt1'
env.hosts = ['server1', 'server2']

@task
def uptime():
 run("uptime")

which context

who where

```
from fabric.api import run, task, env, roles, parallel
env.user = 'deployer'
env.roledefs = {'web':['s1', 's2', 's3'], 'db':['s4']}
@task
@roles('web', 'db')
@parallel
def uptime():
    run("uptime")
```

how to execute parallel sequence

### demo

{live coding!?}

# Q & A