FABRIC AND PUPPET RICH BURROUGHS

WHAT IS FABRIC?



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Enter search terms or a module. class or function name.

containing a single task:

```
from fabric.api import run
def host_type():
    run('uname -s')
```

If you save the above as fabfile.py (the default module that fab loads), you can run the tasks defined in it on one or more servers, like so:

```
$ fab -H localhost,linuxbox host_type
[localhost] run: uname -s
[localhost] out: Darwin
[linuxbox] run: uname -s
[linuxbox] out: Linux
Disconnecting from localhost... done.
Disconnecting from linuxbox... done.
```

In addition to use via the fab tool, Fabric's components may be imported into other Python code, providing a Pythonic interface to the SSH protocol suite at a higher level than that provided by e.g. the Paramiko library (which Fabric itself uses.)

This website covers project information for Fabric such as the changelog, contribution guidelines, development roadmap, news/blog, and so forth. Detailed usage and API documentation can be found at our code documentation site, docs.fabfile.org.

Please see the navigation sidebar to the left to begin.



FABRIC IS A PYTHON...LIBRARY AND COMMAND-LINE TOOL FOR STREAMLINING THE USE OF SSH FOR APPLICATION DEPLOYMENT OR SYSTEMS ADMINISTRATION TASKS.

- FABFILE.ORG

LIBRARY AND COMMAND-LINE TOOL

APPLICATION DEPLOYMENT OR SYSTEMS ADMINISTRATION TASKS

ORCHESTRATION + REMOTE EXECUTION

SIMILAR TO ANSIBLE AND CAPISTRANO

WHY FABRIC?

I SUPPOSE IT IS TEMPTING, IF THE ONLY TOOL YOU HAVE IS A HAMMER, TO TREAT EVERYTHING AS IF IT WERE A NAIL.

- ABRAHAM MASLOW

WHY NOT MCOLLECTIVE?

FABRIC FUNCTIONS AKA OPERATIONS

RUN SUDO LOCAL GET PUT REBOOT

```
def deploy():
    local('git push')
    run('git pull')
    sudo('puppet agent -t')
```

FUNCTIONS ARE BUILDING BLOCKS

TASKS

```
@task
def foo():
    sudo('foo')
```

FABFILES

ENV

FAB COMMAND

fab -H host.example.com task

AUTHENTICATION

fab -I -H host.example.com task

ROLES

```
def get_roles(*roles):
    return lambda:[y for x in roles for y in env.roledefs[x]]
env.roledefs = {
    'web': ['web1', 'web2', 'web3'],
    'db': ['db1', 'db2'],
    'amq': ['mq1', 'mq2']
    'all': get_roles('web', 'db', 'amq')
```

PARAMETERS

```
@task
def agent_run(environment='production'):
    sudo("/usr/local/bin/puppet agent -t --environment=%s" % environment)
```

fab -I -R web agent_run:environment=rich

AD HOC COMMANDS

fab -I -R all -- '/bin/ls /'

DEMO TIME

CONCLUSIONS