FABRIC AND PUPPET

RICH BURROUGHS

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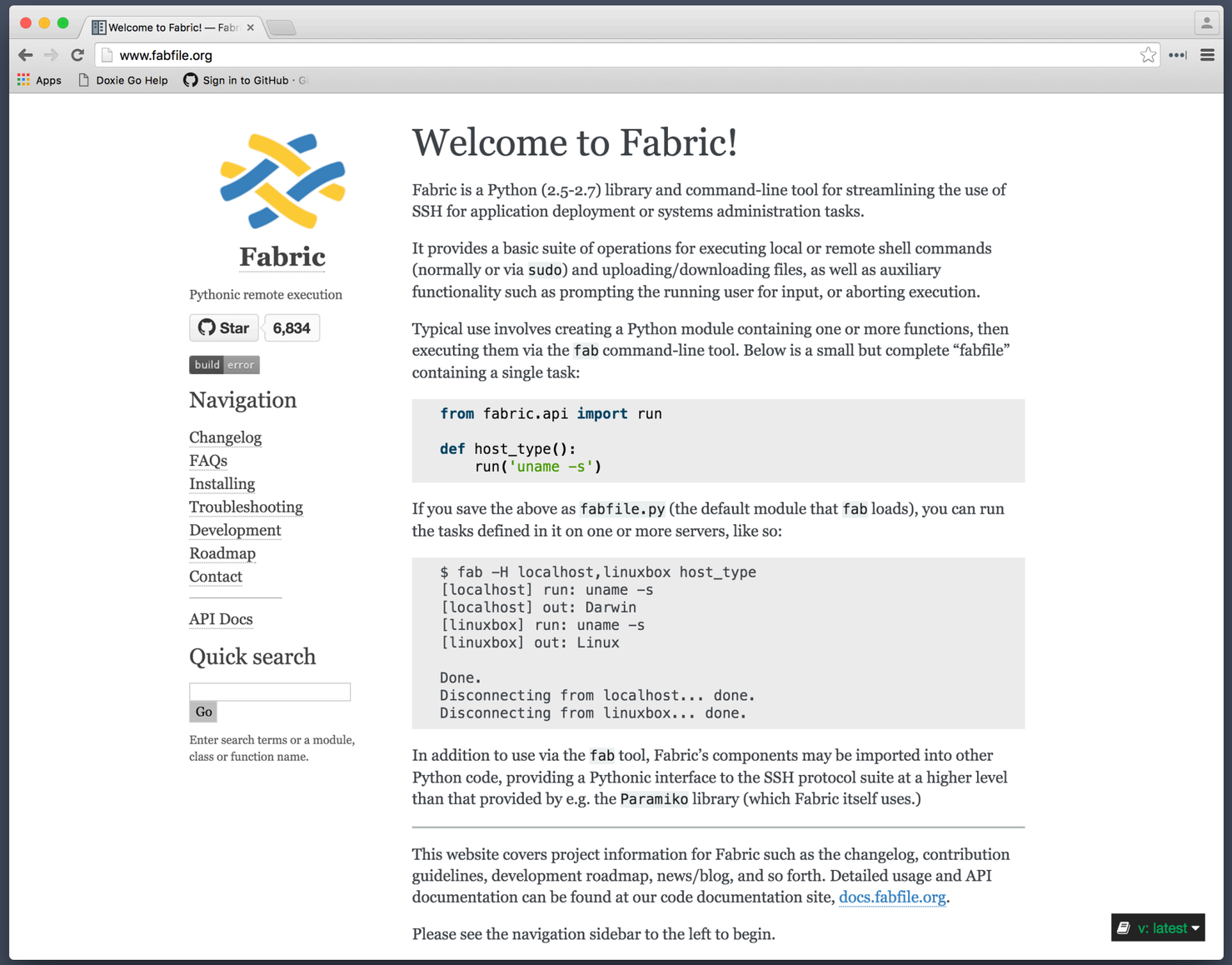
WHAT IS FABRIC?



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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

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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

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ENV

FAB COMMAND

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```
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