
Nombre	Código
Esteban Durán	12103025

Jenkins

Instalacion de dependencias requeridas para usar jenkins

```
# yum install java-1.7.0-openjdk
# yum install wget -y
# yum install git -y
# sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins-ci.org/redhat/jenkins.repo
# sudo rpm --import https://jenkins-ci.org/redhat/jenkins-ci.org.key
# sudo yum install jenkins
```

Iniciar el servicio de Jenkins y habilitar su respectivo puerto

```
# chkconfig jenkins on
# service jenkins start
# iptables -I INPUT 5 -p tcp -m state --state NEW -m tcp --dport 8080 -j ACCEPT
# service iptables save
```

Se crea el usuario y ambiente virtual para Jenkins

```
# useradd jenkins
# passwd jenkins
# su jenkins
$ mkdir /var/lib/jenkins/.virtualenvs
$ cd /var/lib/jenkins/.virtualenvs
$ virtualenv testproject
$ . testproject/bin/activate
```

Se instalan las herramientas requeridas para trabajar con pruebas en jenkins

```
$ pip install xmlrunner
$ pip install unittest2
$ pip install pytest
$ pip install pytest-cov
$ pip install flask

$ pip freeze > requirements.txt
```

Configuracion de jenkins con github

General

Source Code Management

Build Triggers

Build Environment

Build

Post-build Actions

Project name

parcial_dos

Description

[Plain text] [Preview](#)

☐ Discard old builds

☒ GitHub project

Project url

https://github.com/esteban-duran/testproject/

☐ This project is parameterized

☐ Throttle builds

☐ Disable this project

☐ Execute concurrent builds if necessary

Source Code Management

☐ None

☒ Git

Repositories

Repository URL

Credentials

- none -

[Add](#)

Save

Apply

parcial_dos Config [Jenki]

← → ↻

192.168.0.33:8080/job/parcial_dos/configure

Jenkins ▾ ▶ parcial_dos ▶

GeneralSource Code ManagementBuild TriggersBuild EnvironmentBuildPost-build Actions

Build Triggers

☐ Trigger builds remotely (e.g., from scripts)

☐ Build after other projects are built

☐ Build when a change is pushed to GitHub

☐ Poll SCM

☒ Build periodically

Schedule

H/5 ****

Would last have run at miércoles 9 de noviembre de 2016 00H29' COT; would next run at miércoles 9 de noviembre de 2016 00H34' COT.

Build Environment

☐ Delete workspace before build starts

☐ Abort the build if it's stuck

☐ Add timestamps to the Console Output

☐ Use secret text(s) or file(s)

Build

Execute shell

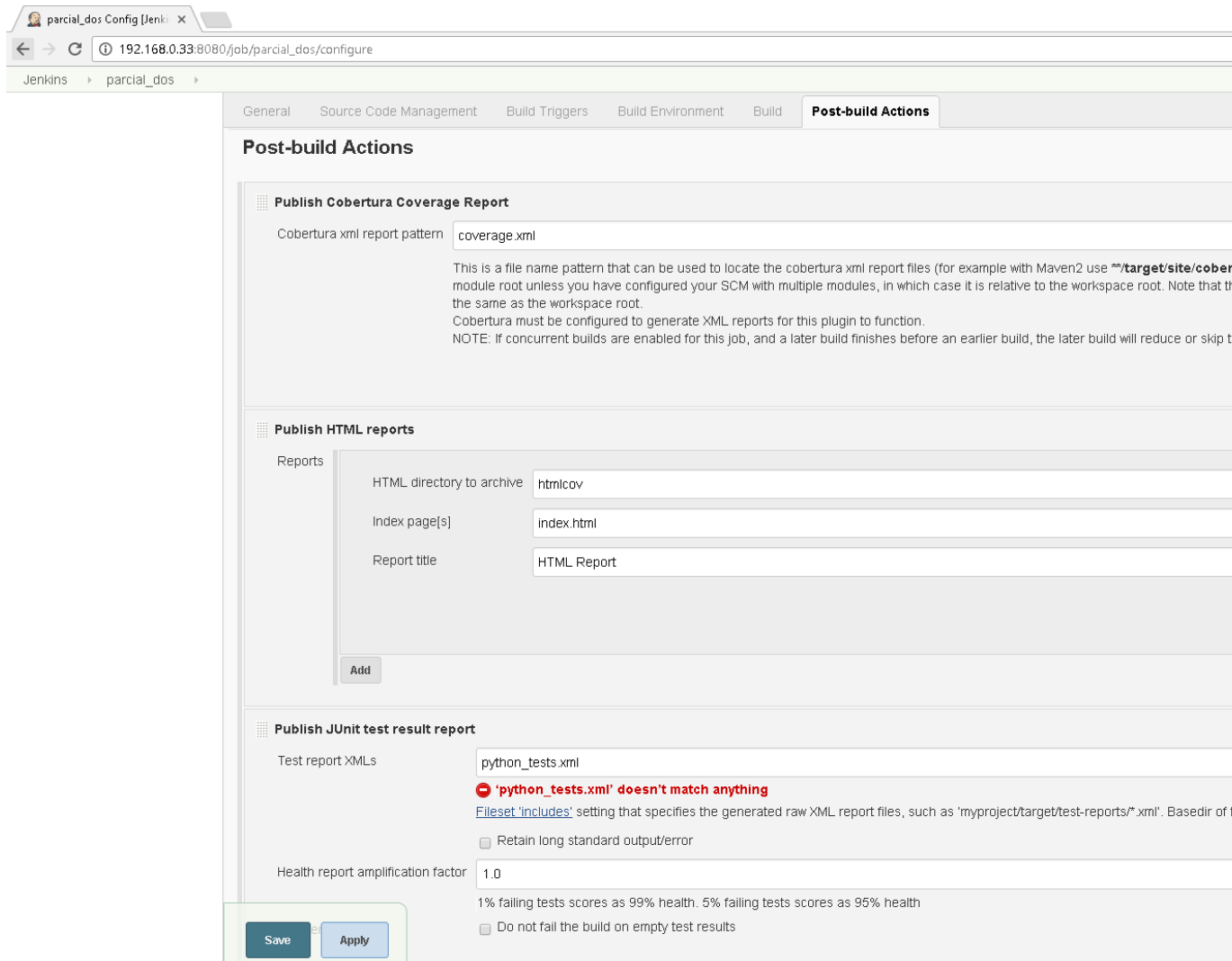
Command

.. \$WORKSPACE/run_tests_with_coverage.sh

See [the list of available environment variables](#)

Save

Apply



Creacion de las pruebas

Cree un archivo de nombre **test_files.py**

```
import pytest
import json, files

@pytest.fixture
def client(request):
    client = files.app.test_client()
    return client

@pytest.mark.order1
def test_create(client):

    testFile3 = {'filename': 'testFile3', 'content': 'This is a test
file'}
    testFile4 = {'filename': 'testFile4', 'content': 'This is a test
file'}
    testFile5 = {'filename': 'testFile5', 'content': 'This is a test
file'}
```

```

        execute3 = client.post('/files', data = json.dumps(testFile3),
content_type='application/json')
        execute4 = client.post('/files', data = json.dumps(testFile4),
content_type='application/json')
        execute5 = client.post('/files', data = json.dumps(testFile5),
content_type='application/json')

        assert execute3.status == '201 CREATED'
        assert execute4.status == '201 CREATED'
        assert execute5.status == '201 CREATED'

        #assert get_content("testFile3") == "This is a test file"
        #assert get_content("testFile4") == "This is a test file"
        #assert get_content("testFile5") == "This is a test file"

@pytest.mark.order2
def test_recent_file(client):

    execute1 =
client.get('/files/recently_created', follow_redirects=True)

    assert "testFile3" in execute1.data
    assert "testFile4" in execute1.data
    assert "testFile5" in execute1.data

@pytest.mark.order3
def test_get_all_files(client):

    execute1 = client.get('/files', follow_redirects=True)

    assert "testFile3" in execute1.data
    assert "testFile4" in execute1.data
    assert "testFile5" in execute1.data

@pytest.mark.order4
def test_remove_files(client):

    client.delete('/files', follow_redirects=True)

    execute1 = client.get('/files', follow_redirects=True)

    assert "testFile3" not in execute1.data
    assert "testFile4" not in execute1.data
    assert "testFile5" not in execute1.data

```

Pruebas locales

Ejecutar las pruebas con pytest

```
py.test
```

Ejecutar pruebas de cobertura desde la terminal

```
py.test --cov-report term --cov=../testproject
```

```

[jenkins@localhost testproject]$ py.test
===== test session starts =====
platform linux2 -- Python 2.6.6, pytest-3.0.3, py-1.4.31, pluggy-0.4.0
rootdir: /home/jenkins/testproject, inifile:
plugins: cov-2.4.0
collected 5 items

test_files.py ....
test_usermgt.py .

===== 5 passed in 0.16 seconds =====
[jenkins@localhost testproject]$ py.test --cov-report term --cov=./testproject
===== test session starts =====
platform linux2 -- Python 2.6.6, pytest-3.0.3, py-1.4.31, pluggy-0.4.0
rootdir: /home/jenkins/testproject, inifile:
plugins: cov-2.4.0
collected 5 items

test_files.py ....
test_usermgt.py .

----- coverage: platform linux2, python 2.6.6-final-0 -----
Name                               Stmts   Miss  Cover
-----
files.py                            40      7    83%
files_commands.py                   14      0   100%
settings/__init__.py                 0      0   100%
settings/development.py              1      0   100%
settings/production.py              1      1     0%
test_files.py                       31      0   100%
test_usermgt.py                     10      0   100%
usermgt.py                           11      1    91%
-----
TOTAL                               108      9    92%

===== 5 passed in 0.94 seconds =====

```

Dirección al github de la soluciónn

<https://github.com/esteban-duran/testproject>