

Third Deployment

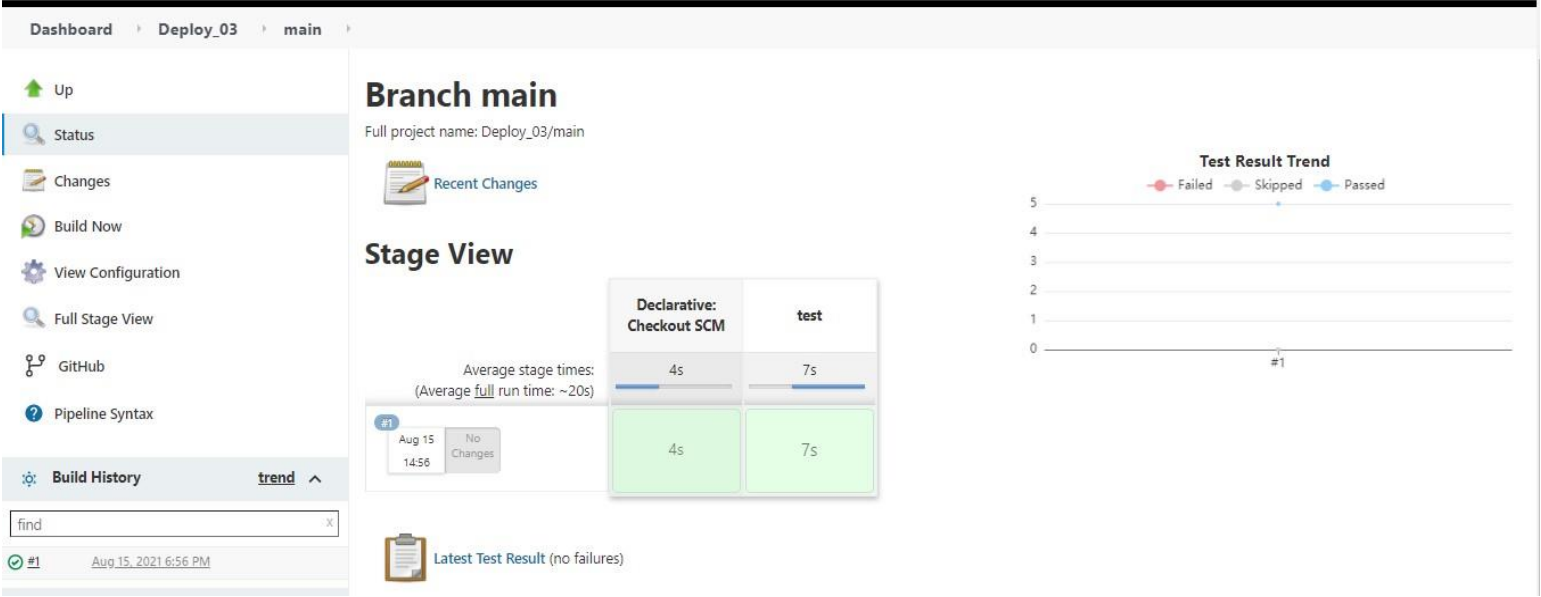
1. Create a EC2 instance with the following bash script
2. Setup Jenkins
3. Create a multibranch-pipeline name Deploy_03 and link it to github through the branch sources.
4. I added a Jenkinsfile in my forked DEPLOY03_TEST repositories.

Jenkinsfile below

```
pipeline {
  agent any
  stages {
    stage ('test') {
      steps {
        sh '''#!/bin/bash

        python3 -m venv test3
        source test3/bin/activate
        pip install pip -- upgrade
        pip install pytest
        py.test --verbose --junit-xml test-reports/results.xml sources/test_calc.py
        '''
      }
      post {
        always {
          junit 'test-reports/results.xml'
        }
      }
    }
  }
}
```

5. Screenshot of first successful test build

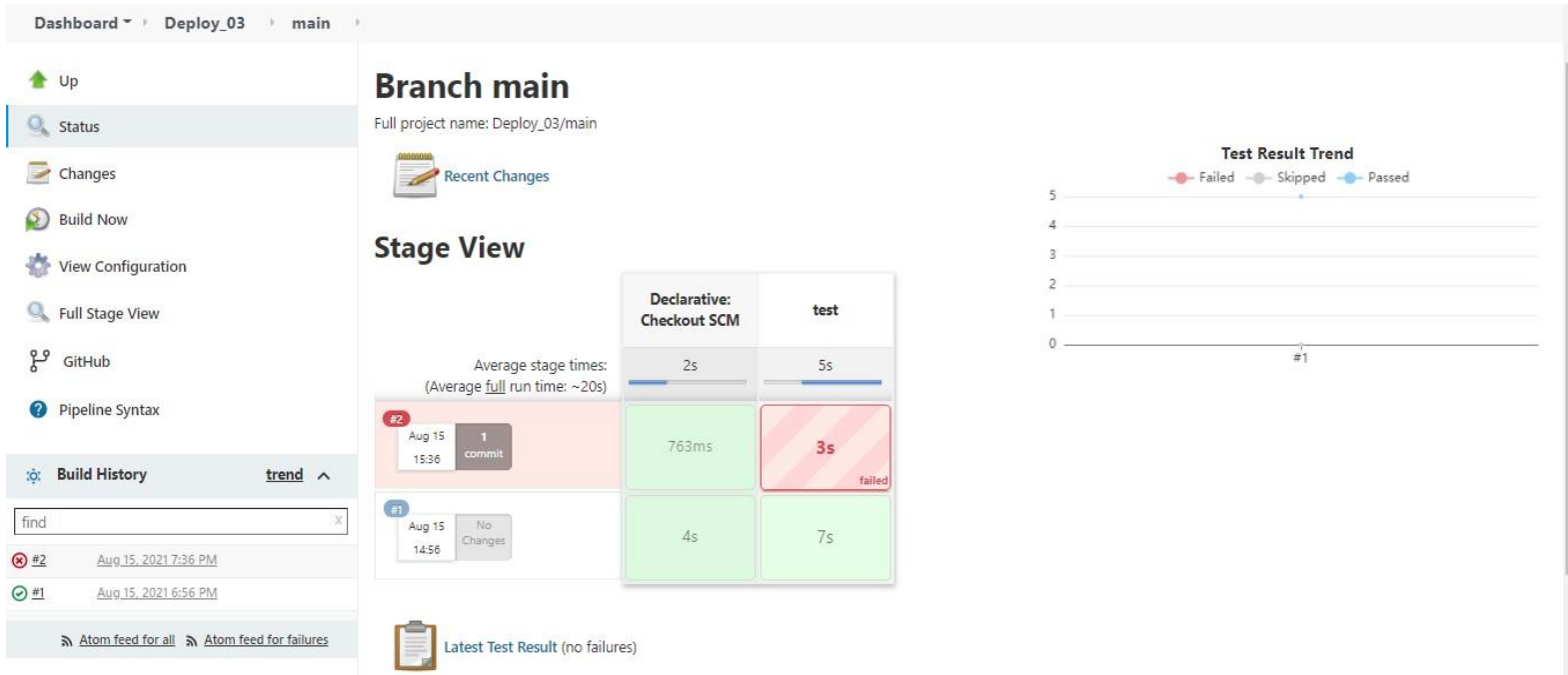


6. Added Feature /Component

The subtraction feature: it takes two values adding them, subtracting them from one value then return the result.

```
#The 'add2_sub1' function itself
def add2_sub1(arg1, arg2, arg3):
    # Convert 'arg1' 'arg2' and 'arg3' to their appropriate types
    arg1conv = conv(arg1)
    arg2conv = conv(arg2)
    arg3conv = conv(arg3)
    # If either 'arg1' 'arg2' or 'arg3' is a string, ensure they're both strings.
    if isinstance(arg1conv, str) or isinstance(arg2conv, str) or
isinstance(arg3conv, str):
        arg1conv = str(arg1conv)
        arg2conv = str(arg2conv)
        arg3conv = str(arg3conv)
    return arg1conv + arg2conv - arg3conv
```

7. Screenshot of failed test after added feature



Reason why it failed

```
sources/test_calc.py::TestCalc::test_add2_sub1_integers FAILED [ 16%]
sources/test_calc.py::TestCalc::test_add_floats PASSED [ 33%]
sources/test_calc.py::TestCalc::test_add_integers PASSED [ 50%]
sources/test_calc.py::TestCalc::test_add_string_and_integer PASSED [ 66%]
sources/test_calc.py::TestCalc::test_add_string_and_number PASSED [ 83%]
sources/test_calc.py::TestCalc::test_add_strings PASSED [100%]

===== FAILURES =====
_____ TestCalc.test_add2_sub1_integers _____

self = <test_calc.TestCalc testMethod=test_add2_sub1_integers>

    def test_add2_sub1_integers(self):
        """
        Test that the addition of two integers and subtraction of one number and returns the correct total
        """
        result = calc.add2_sub1(1, 2, -3)
        self.assertEqual(result, 0)
>
E      AssertionError: 6 != 0
```

```
def test_add2_sub1_integers(self):
    """
    Test that the addition of two integers and
    subtraction of one number and returns the correct total
    """
    result = calc.add2_sub1(1, 2, -3)
    self.assertEqual(result, 0)
```

The result was not the same as the assert result. The three numbers 1, 2, -3 is not the same as 1, 2, 3. The sign magnitude in the 3 changes the results.

8. Screenshot of a successful test build with feature

Dashboard

Deploy_03

main

Up

Status

Changes

Build Now

View Configuration

Full Stage View

GitHub

Pipeline Syntax

Build History

trend

find

#3 Aug 15, 2021 7:45 PM

#2 Aug 15, 2021 7:36 PM

#1 Aug 15, 2021 6:56 PM

Atom feed for all

Atom feed for failures

Branch main

Full project name: Deploy_03/main

Recent Changes

Stage View

Average stage times: (Average full run time: ~12s)

	Declarative: Checkout SCM	test
#3 Aug 15 15:45 1 commit	702ms	3s
#2 Aug 15 15:36 1 commit	763ms	3s failed
#1 Aug 15 14:56 No Changes	4s	7s

Test Result Trend

Failed Skipped Passed

To fix that the result was change to 6

```
def test_add2_sub1_integers(self):
    """
    Test that the addition of two integers and subtraction of one
    number and returns the correct total
    """
    result = calc.add2_sub1(1, 2, -3)
    self.assertEqual(result, 6)
```