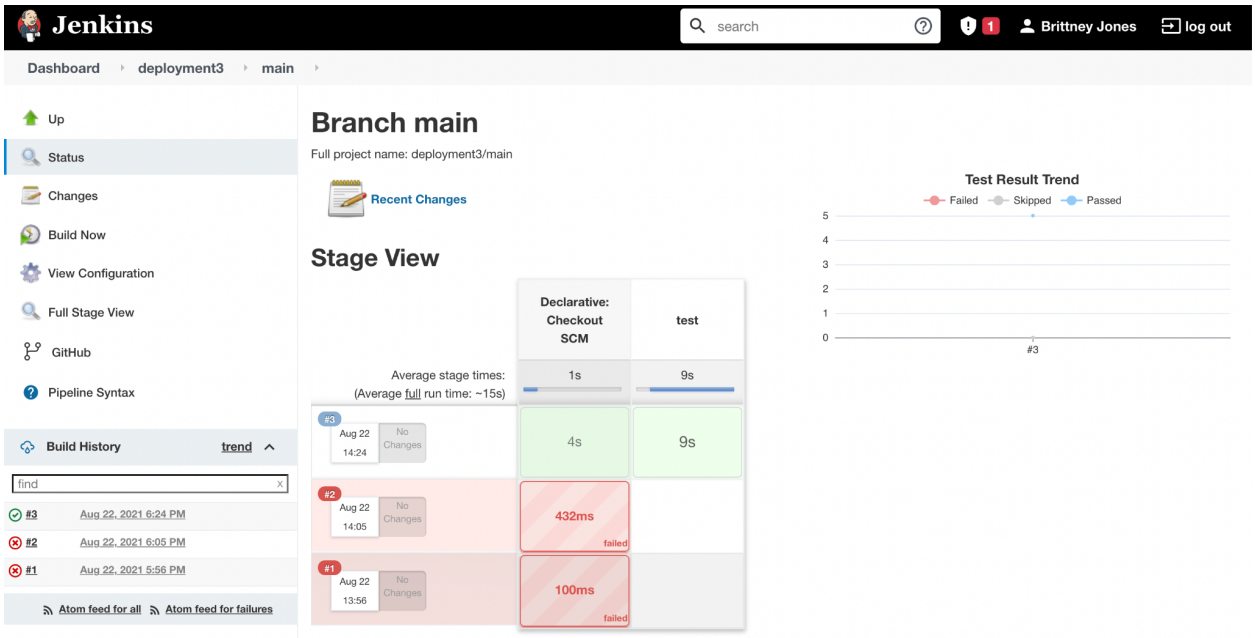
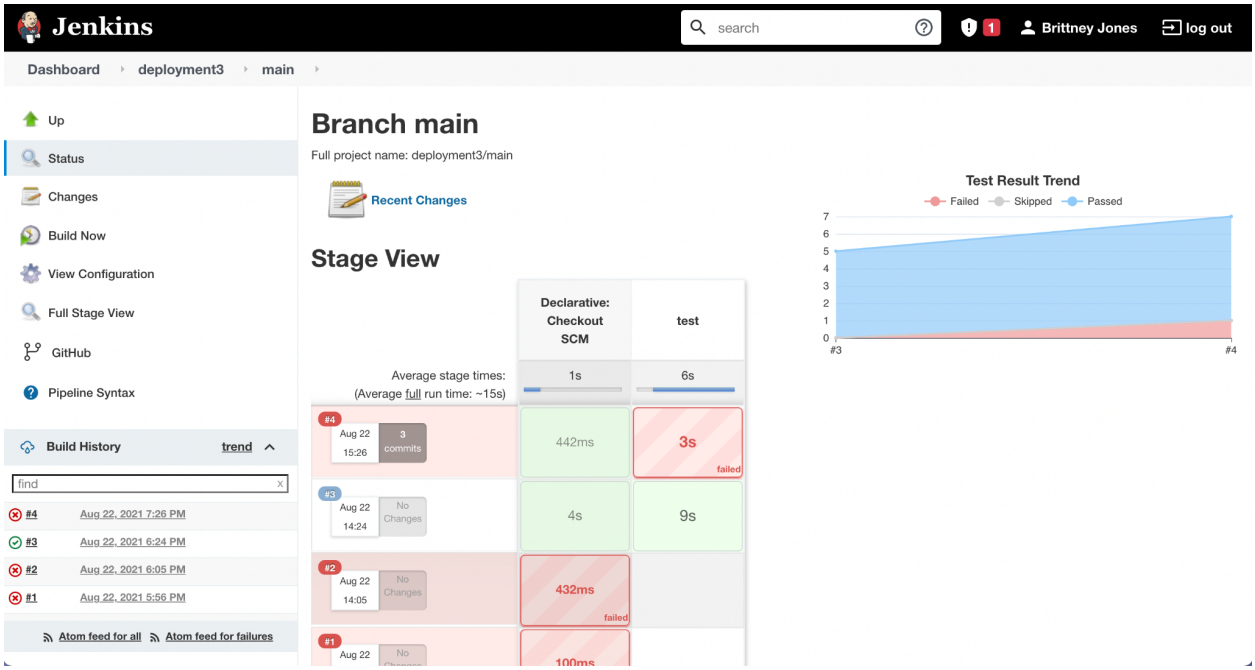
The task: First test the Add2Val application with the already made test_calc.py and produce an XML report. Once you have run a test build and produced a test report. Create an additional feature or component to the Add2Vals application. Create a test that will fail when you test Add2 a second time and then get your test to pass.

1. Start by creating an ec2 instance and SSHing into it.
    a. While trying to ssh into the ec2, I ran into a permission denied issue and it was because I forgot the '-' in my instance username
2. I created a bash script that installed jenkins on my ec2 and then logged into my Jenkins server.
3. Once logged in I created a multi-branch pipeline and connected it to my github account. I then added a Jenkinsfile to my repository.
4. My first two builds failed and the error I was getting was that it could not clone remote repo 'origin'. I then figured out that it was because I had not installed git on my ec2 instance and once I did, my build was successful. I also installed python3 onto my ec2 instance as well so the scripts would run.



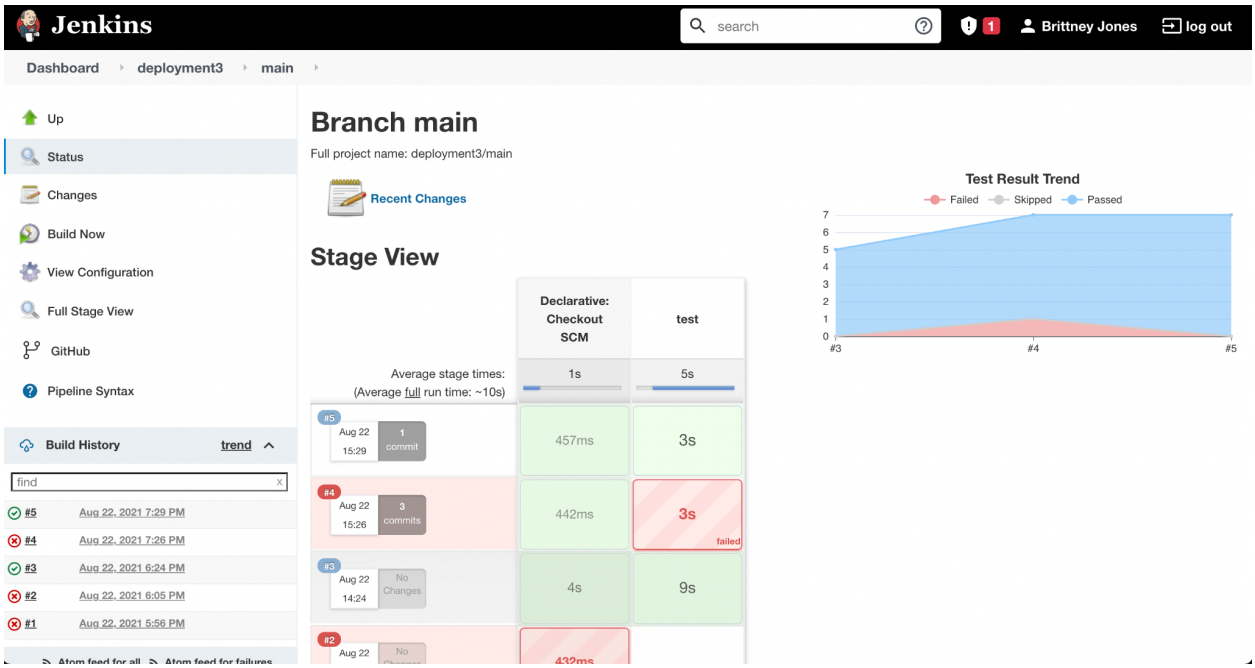
5. The component I decided to add was a multiply3 function which takes 3 integers and multiplies 3 integers, returning the result. I made changes to both the calc.py and add2vals.py files to do this.
6. I then needed to test the multiply3 function and I did so by creating a multiply integers test case for the multiply3 function. I also wanted to cover the case of the user inputting floats so I created a second test case for the multiply3 function to take care of float inputs.
7. To make the build failed I asserted that the three integers in the function returned the incorrect result and when I ran the build it failed.




```
sources/test_calc.py::TestCalc::test_multiply_integers FAILED            [100%]

================================== FAILURES ===================================
_____________________ TestCalc.test_multiply_integers _____________________
```

8. I then edited the test file with the correct output and ran the build again and it was successful.



```
sources/test_calc.py::TestCalc::test_multiply_floats PASSED              [ 85%]
sources/test_calc.py::TestCalc::test_multiply_integers PASSED            [100%]

- generated xml file: /var/lib/jenkins/workspace/deployment3_main/test-reports/results.xml -
============================== 7 passed in 0.04s ===============================
```