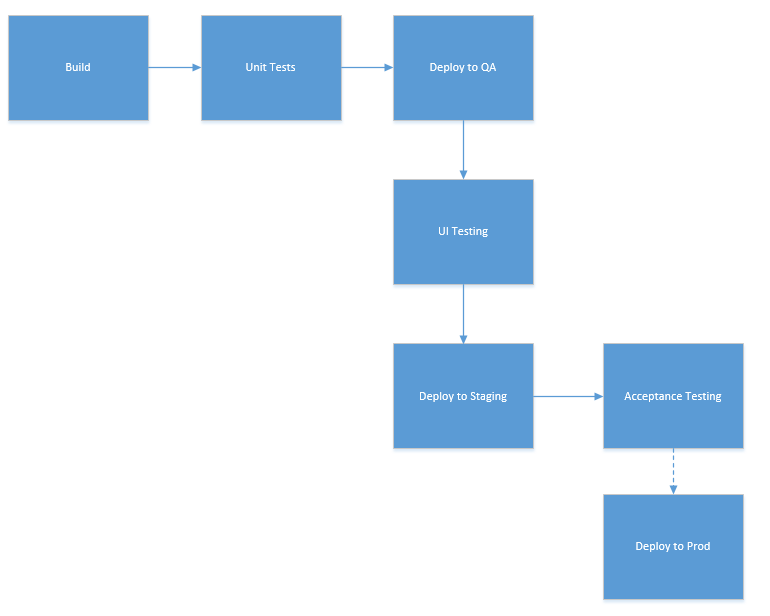
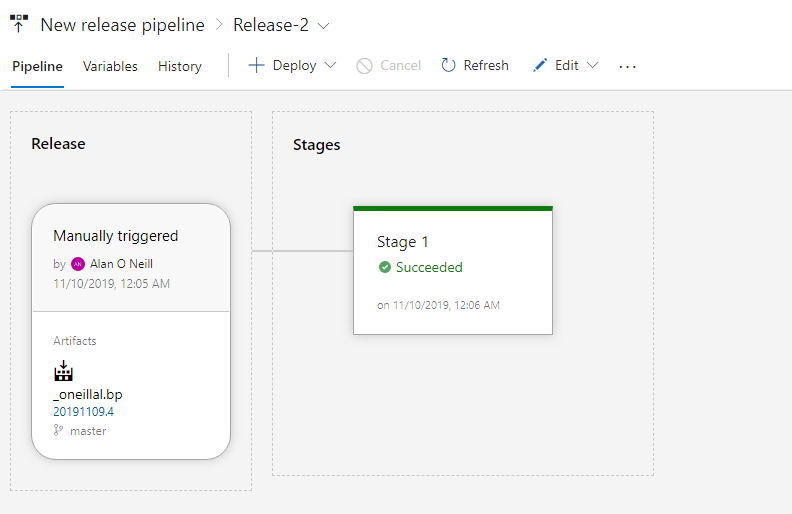
CDS CA1 Report

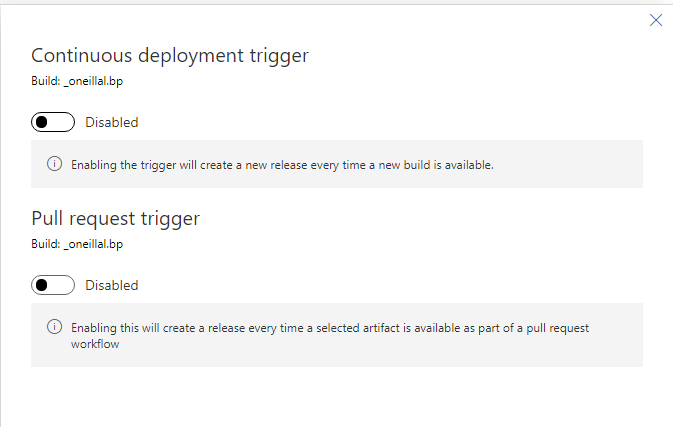
Pipeline Design



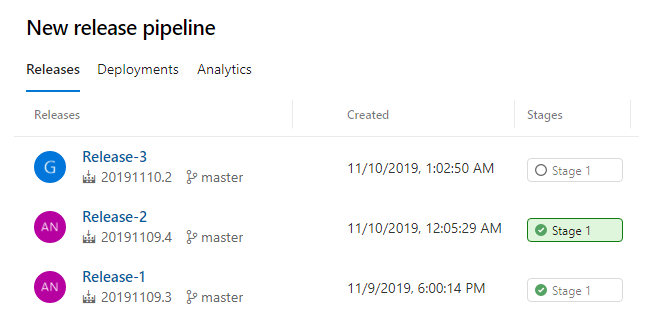
Have to configure in order to always deploy latest build



Continuous Deployment

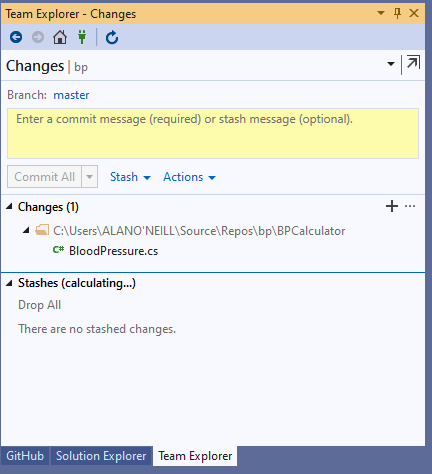


Spawns a new release once a new build drops

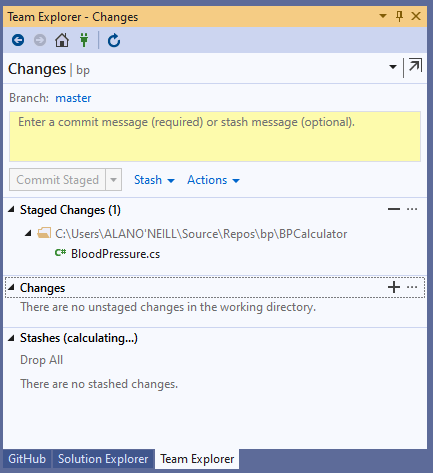


G icon tells that its GitHub who initiated the release.

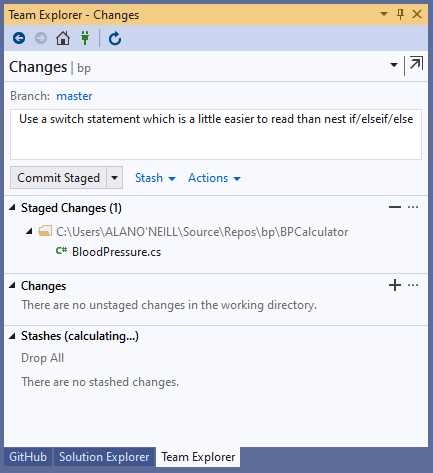
Git in VS

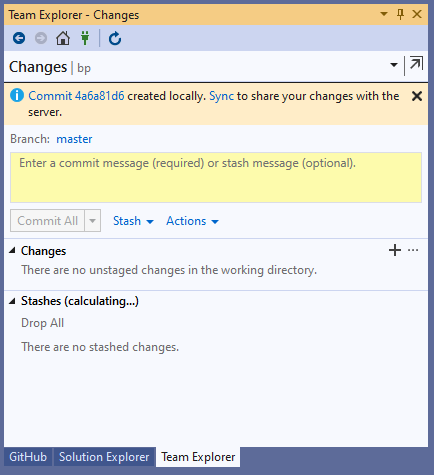


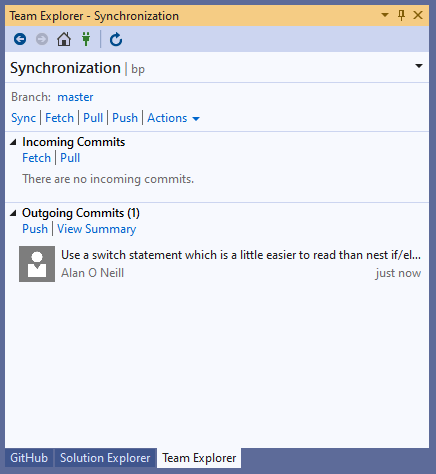
Unstaged change

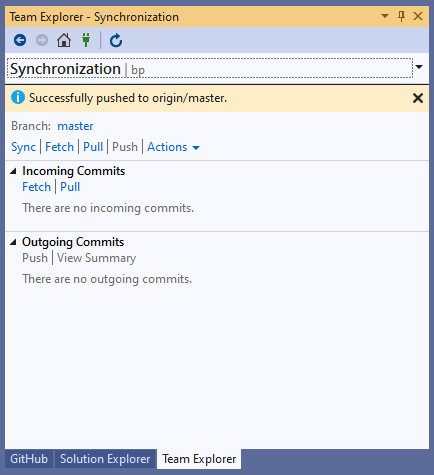


Staged

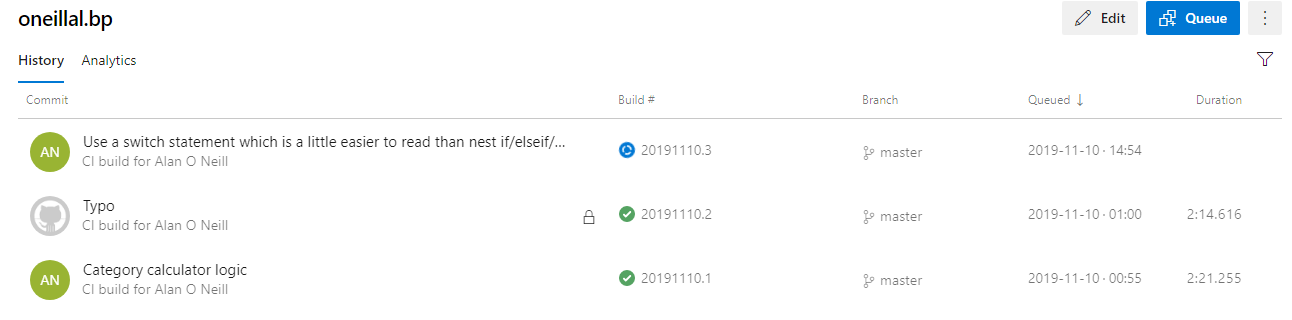




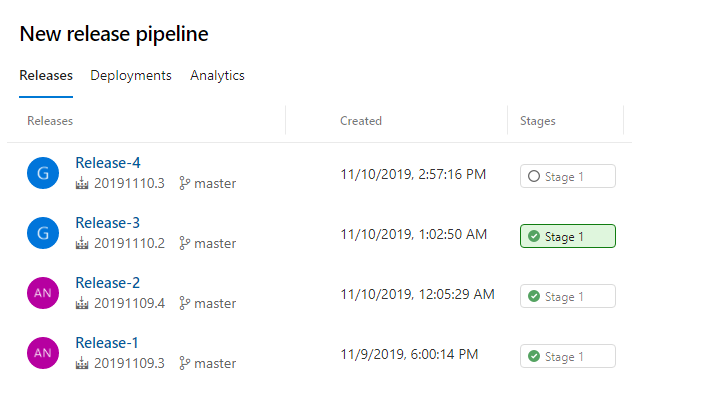




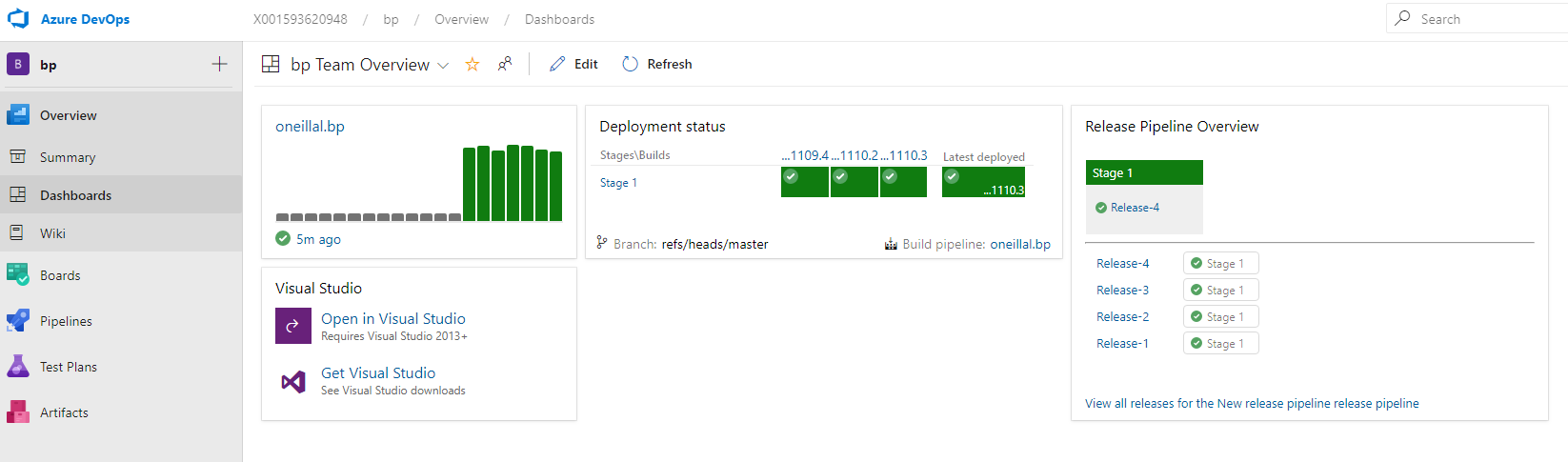
Build kicks in

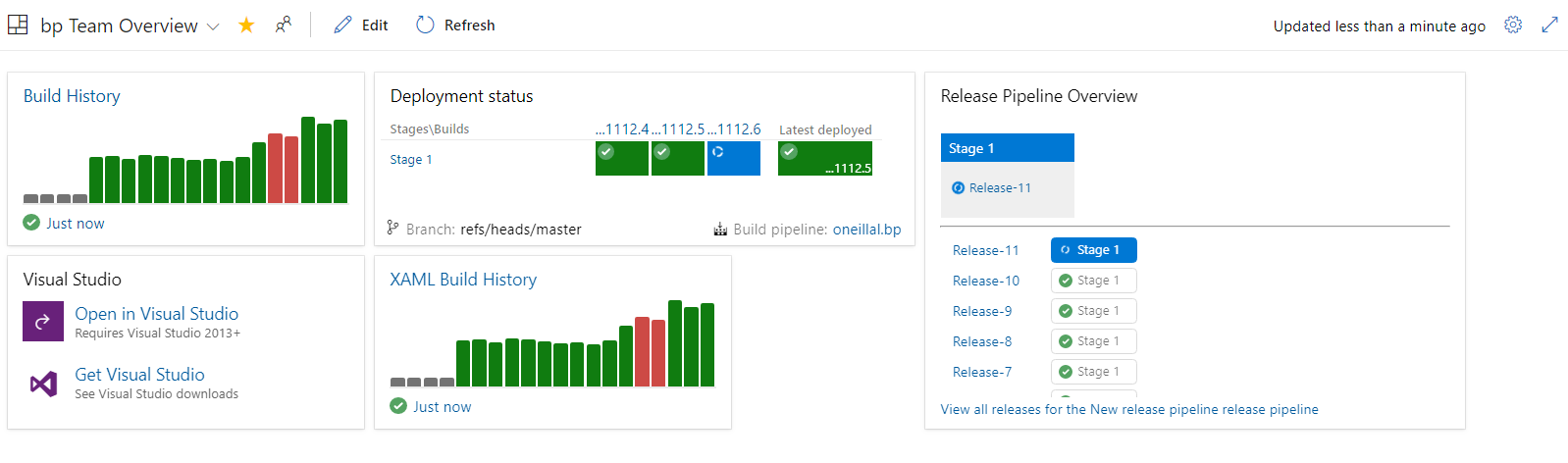


Release is triggered automatically

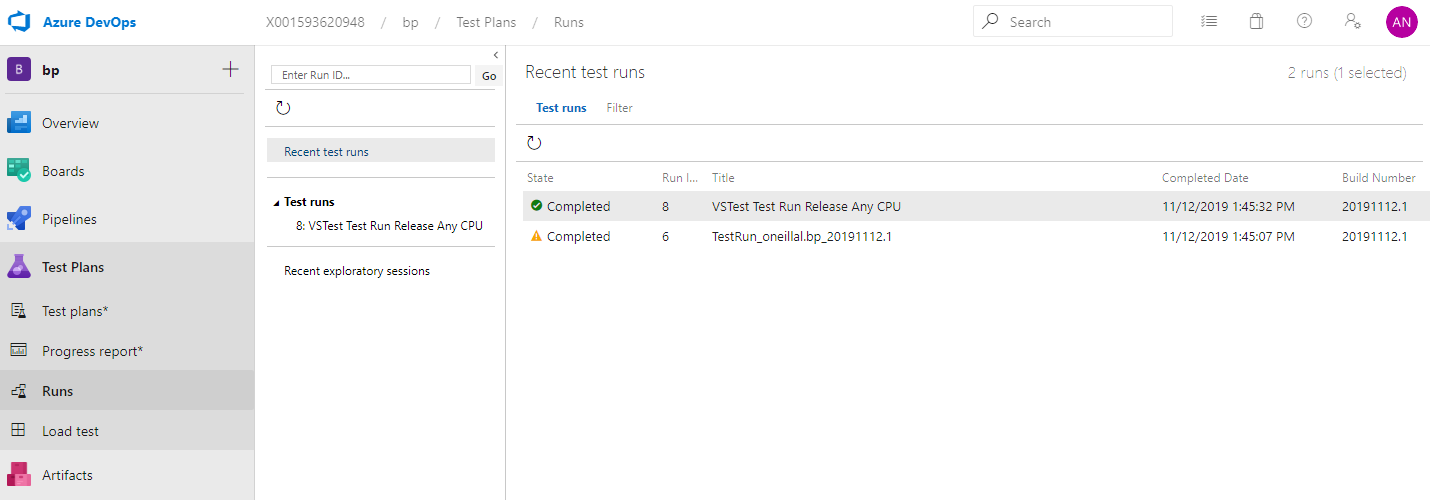


Pipeline Dashboard

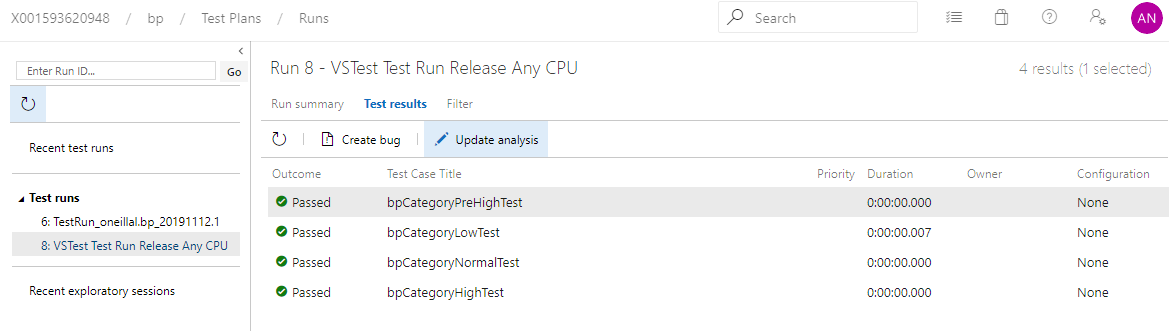




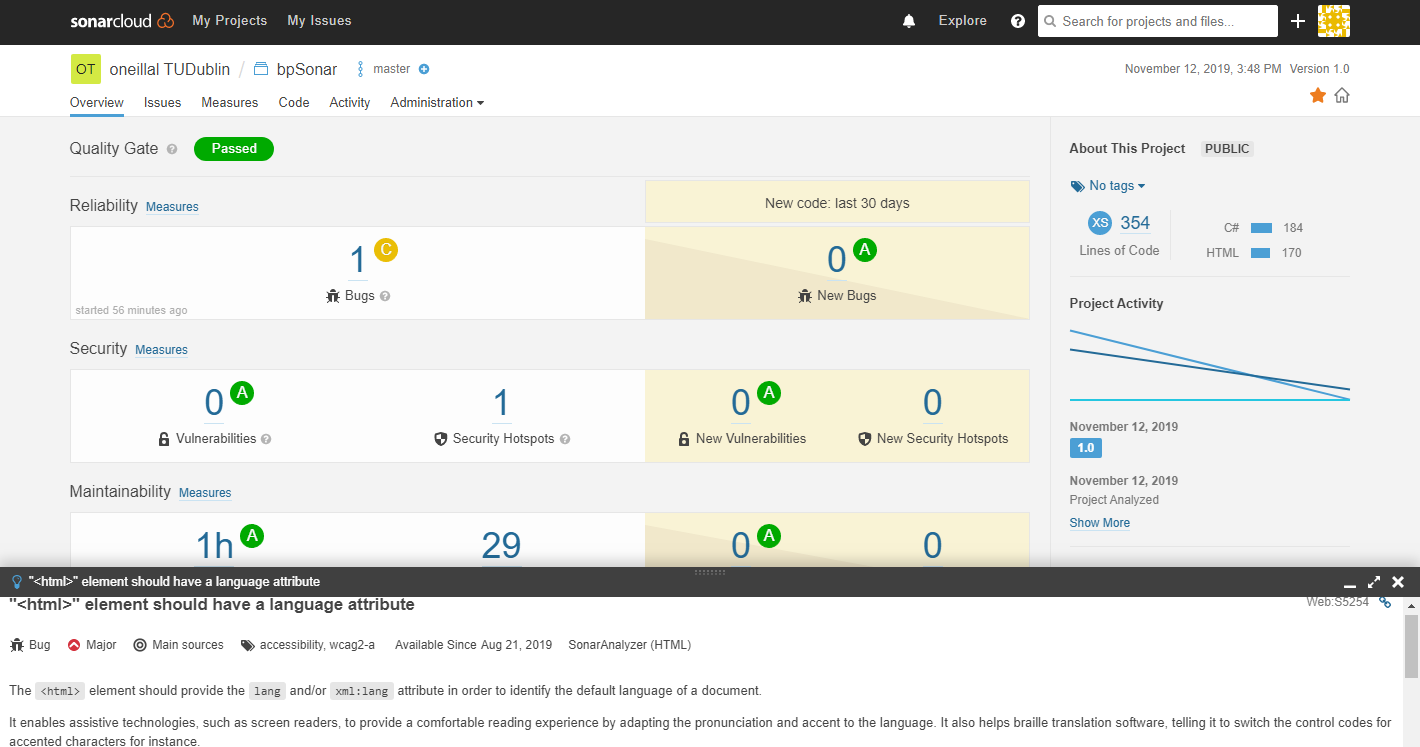
Unit Tests

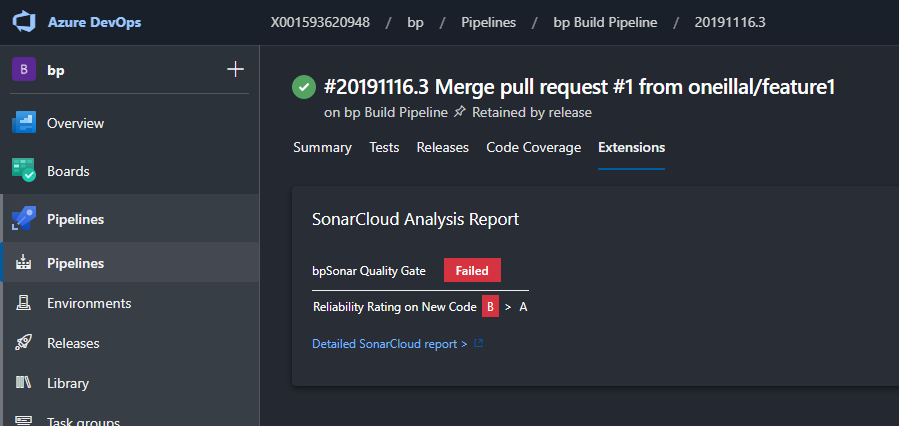


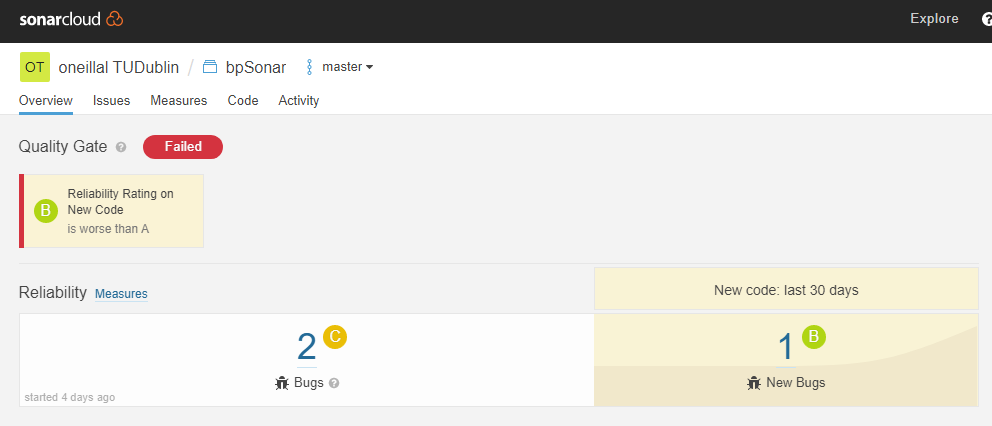
Unit test results

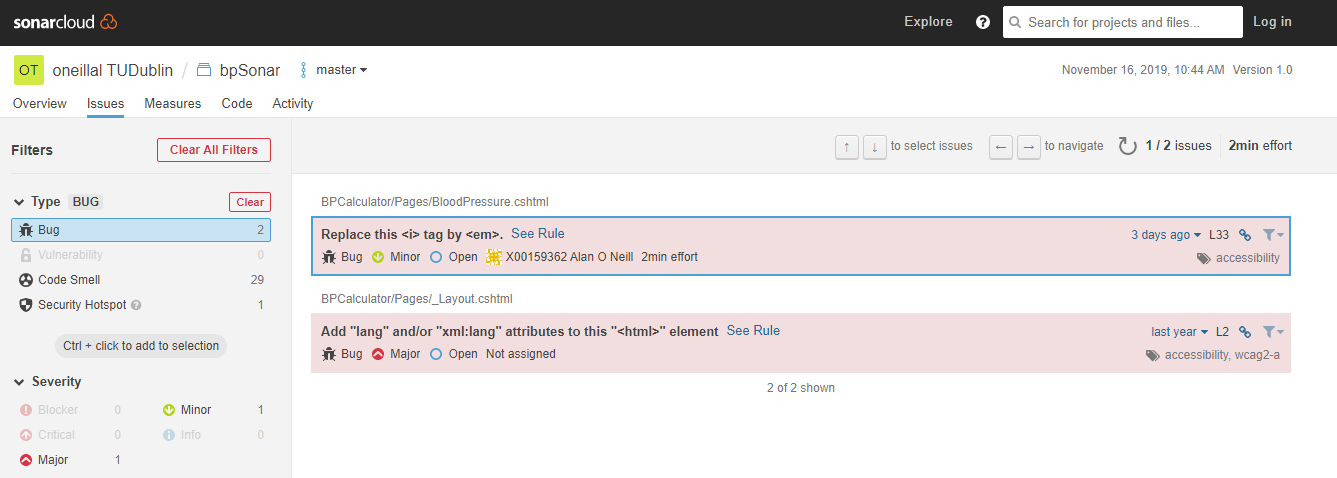


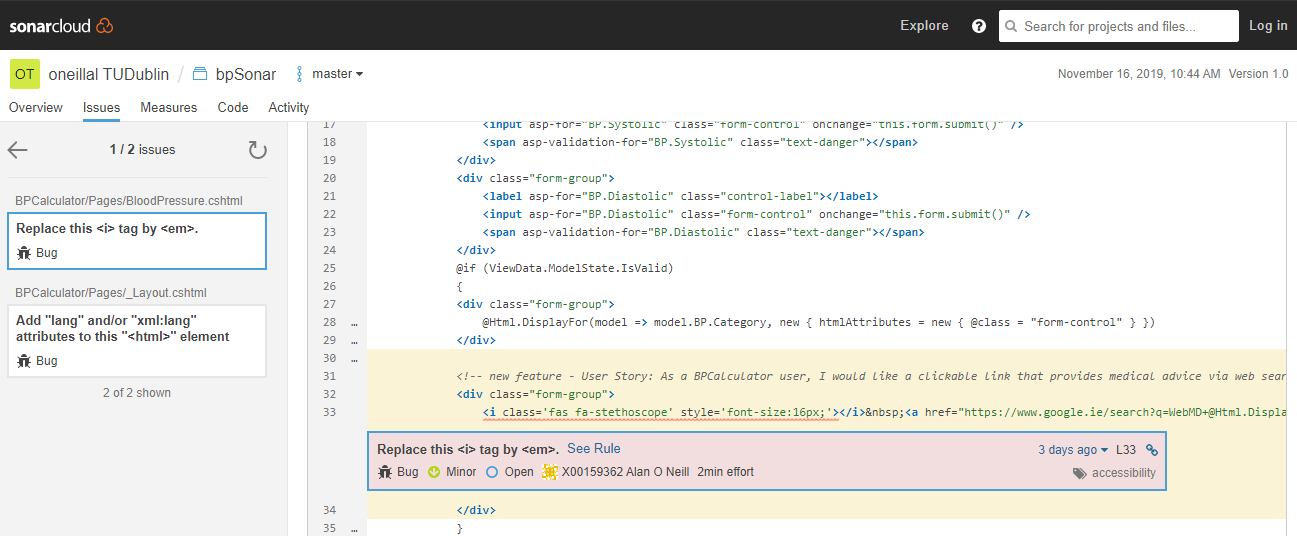
Sonar Code Analysis

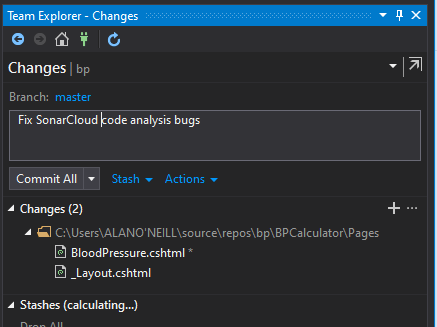




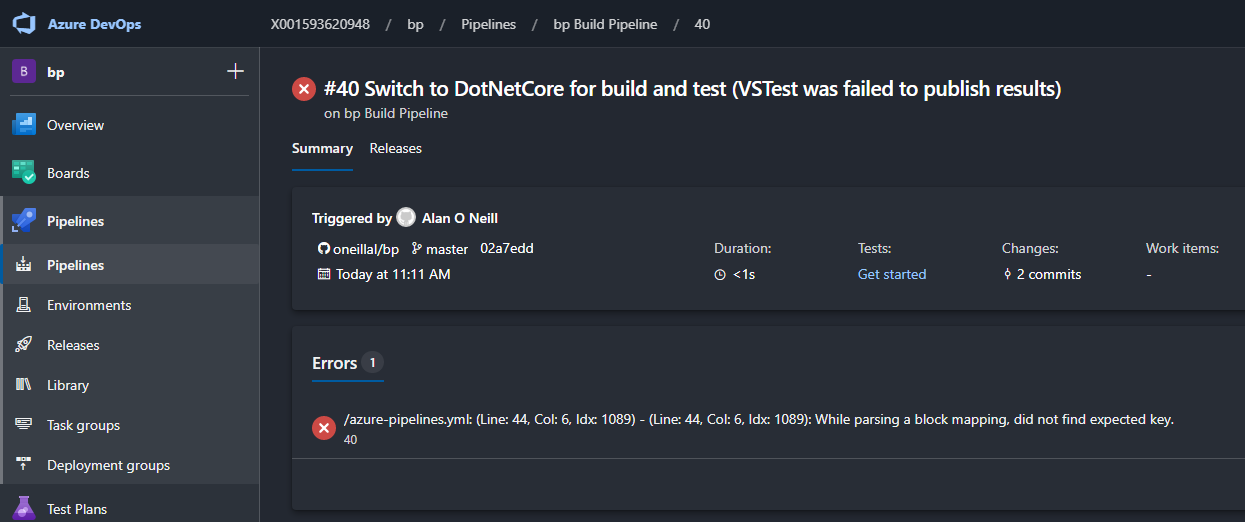




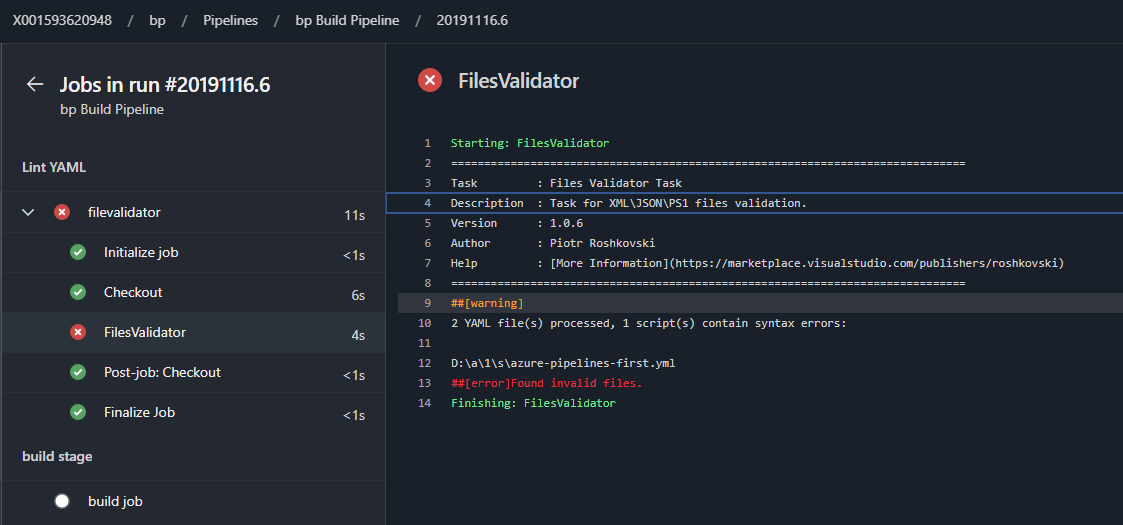




Failed because of YAML formatting…

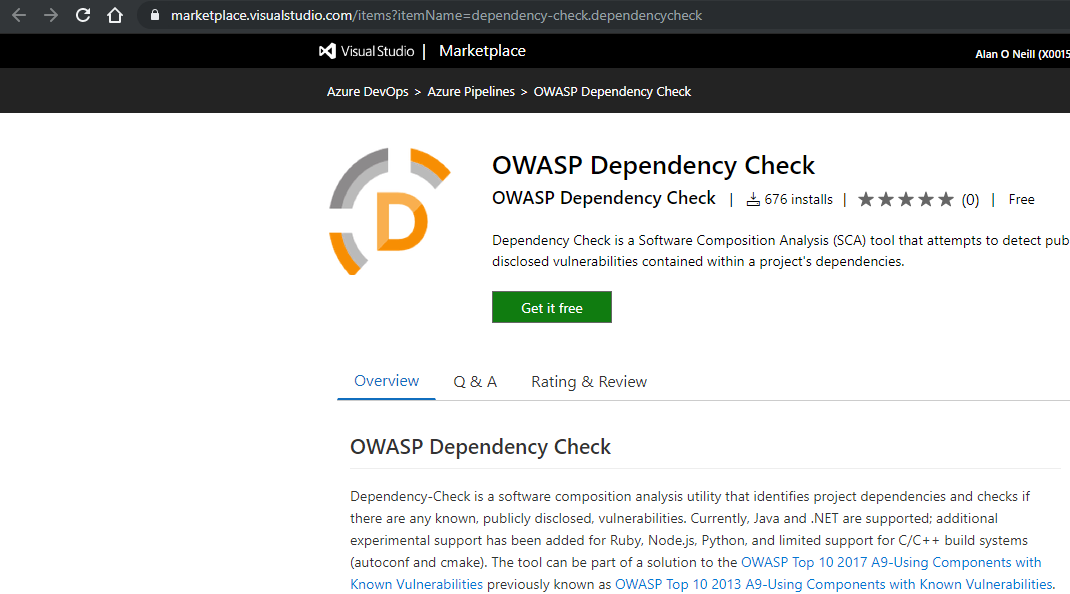


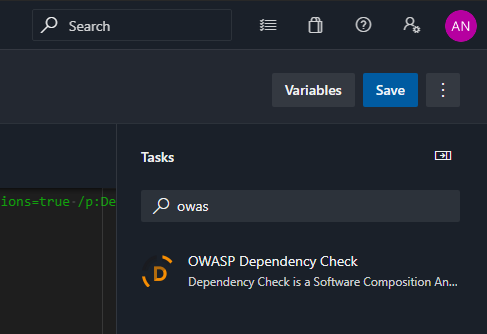
Introduced YAML validation to catch invalid pipeline YAML and wasting build cycles

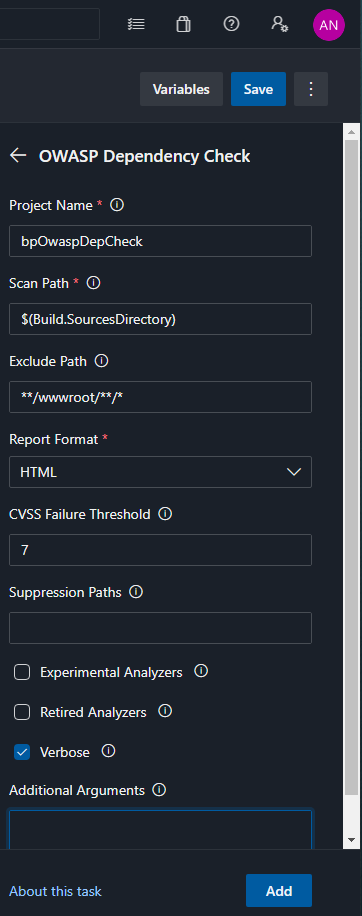


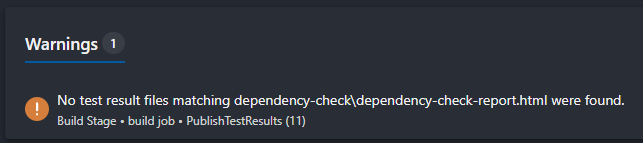
OWASP Dependency Check

Installed the tool from the marketplace

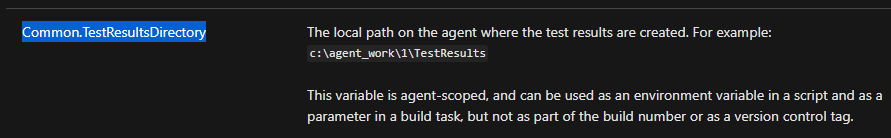




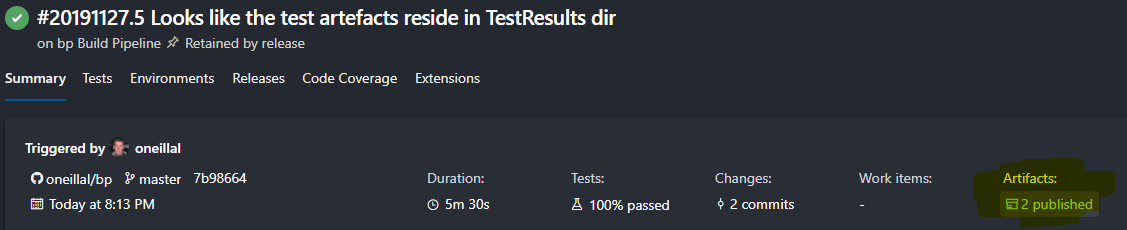


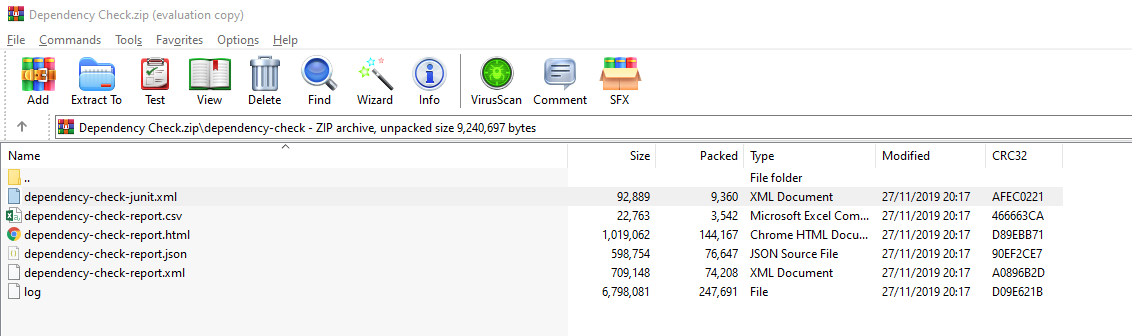


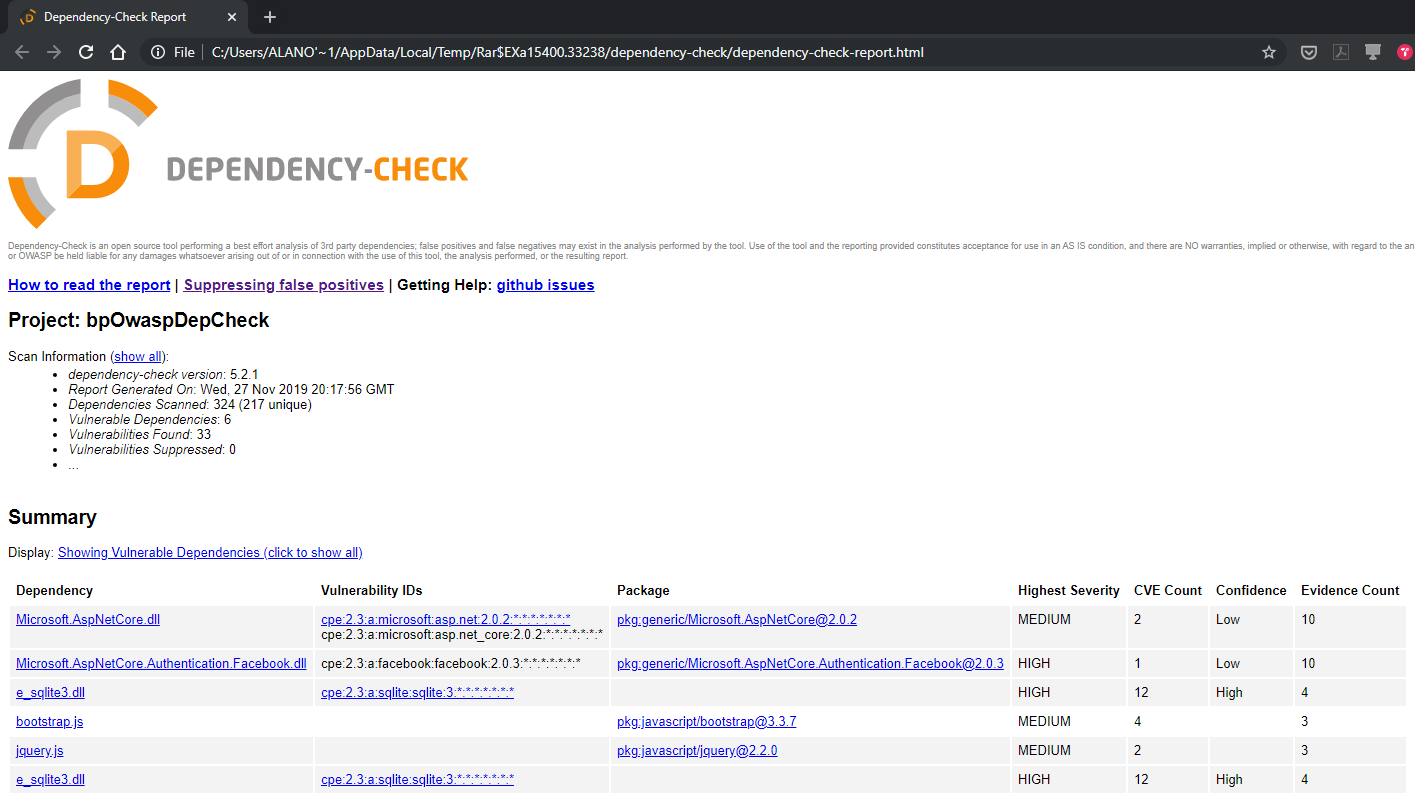
<https://docs.microsoft.com/en-us/azure/devops/pipelines/build/variables?view=azure-devops&tabs=yaml>



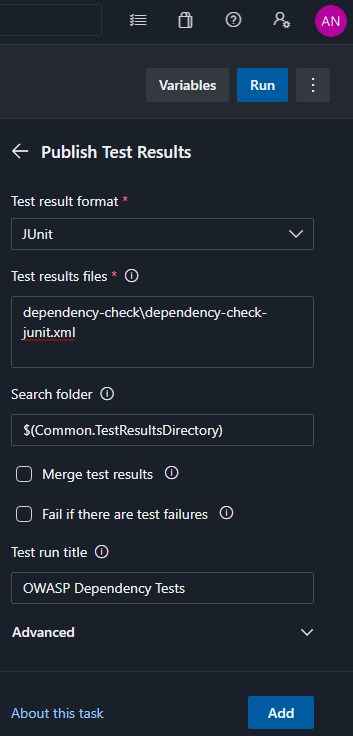
Publish OWASP report

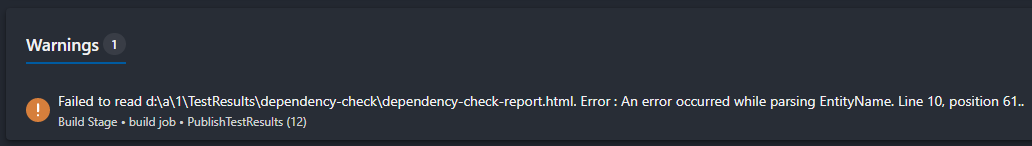




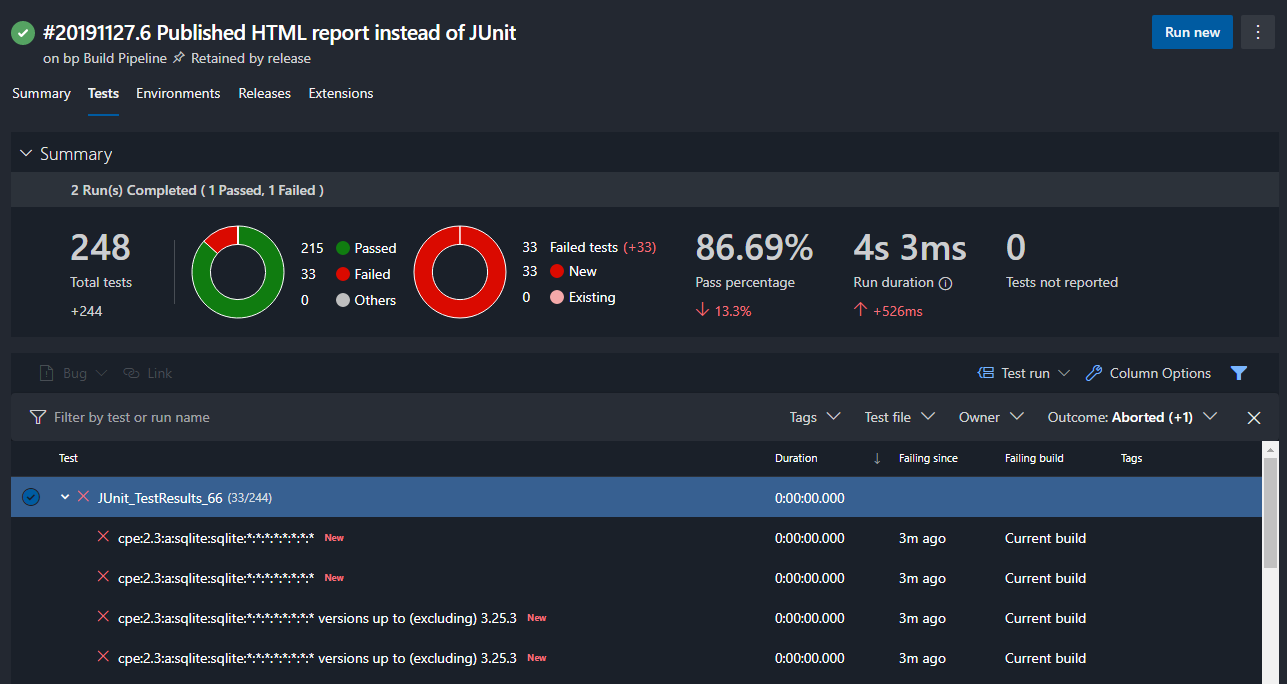


Using PublishTests we can get the output to display in the Tests view of the Pipeline





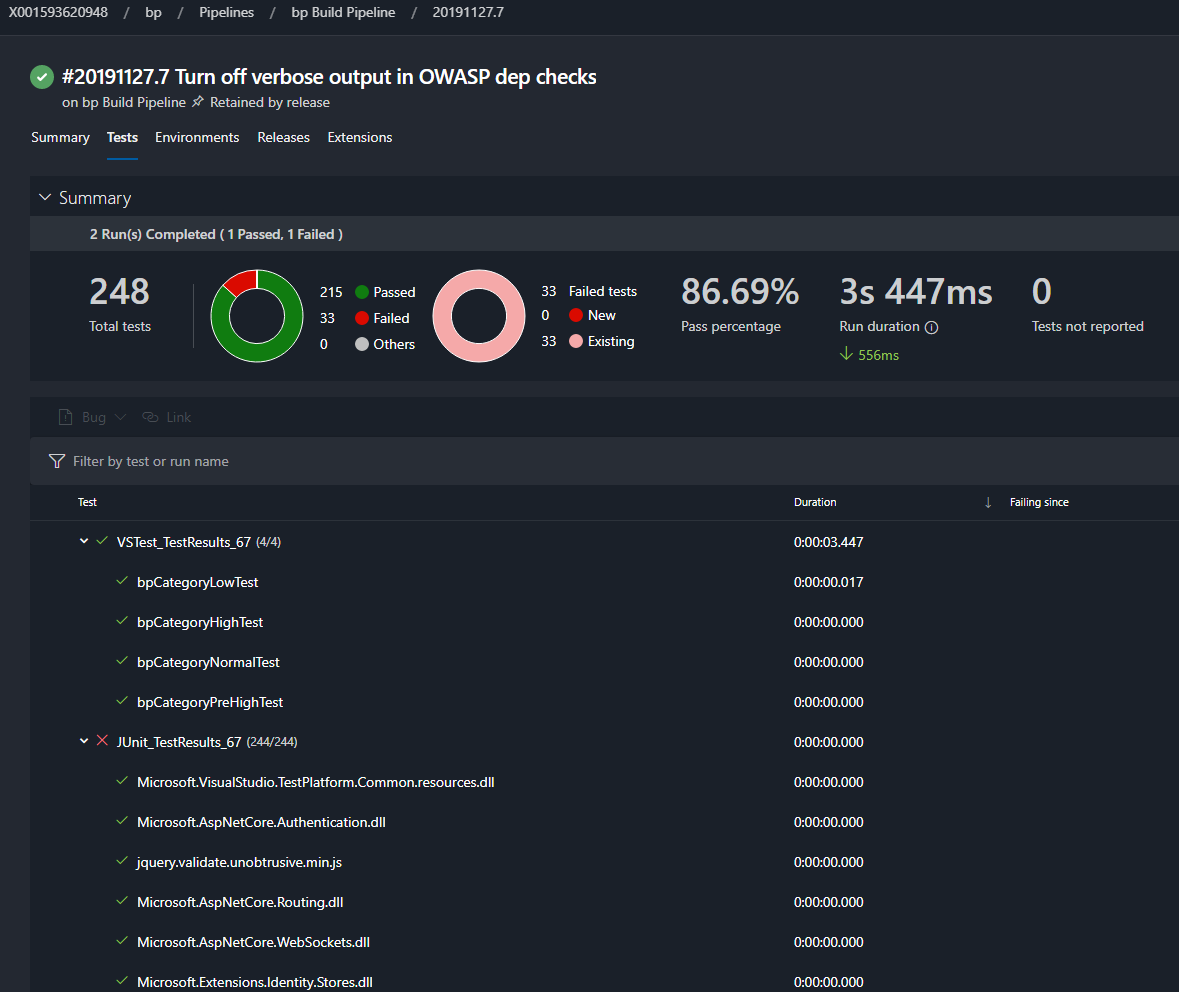
Doesn’t support displaying the HTML. Seems you have to use something like JUnit or XUnit



Lots of failed tests now because of OWASP…will try fix

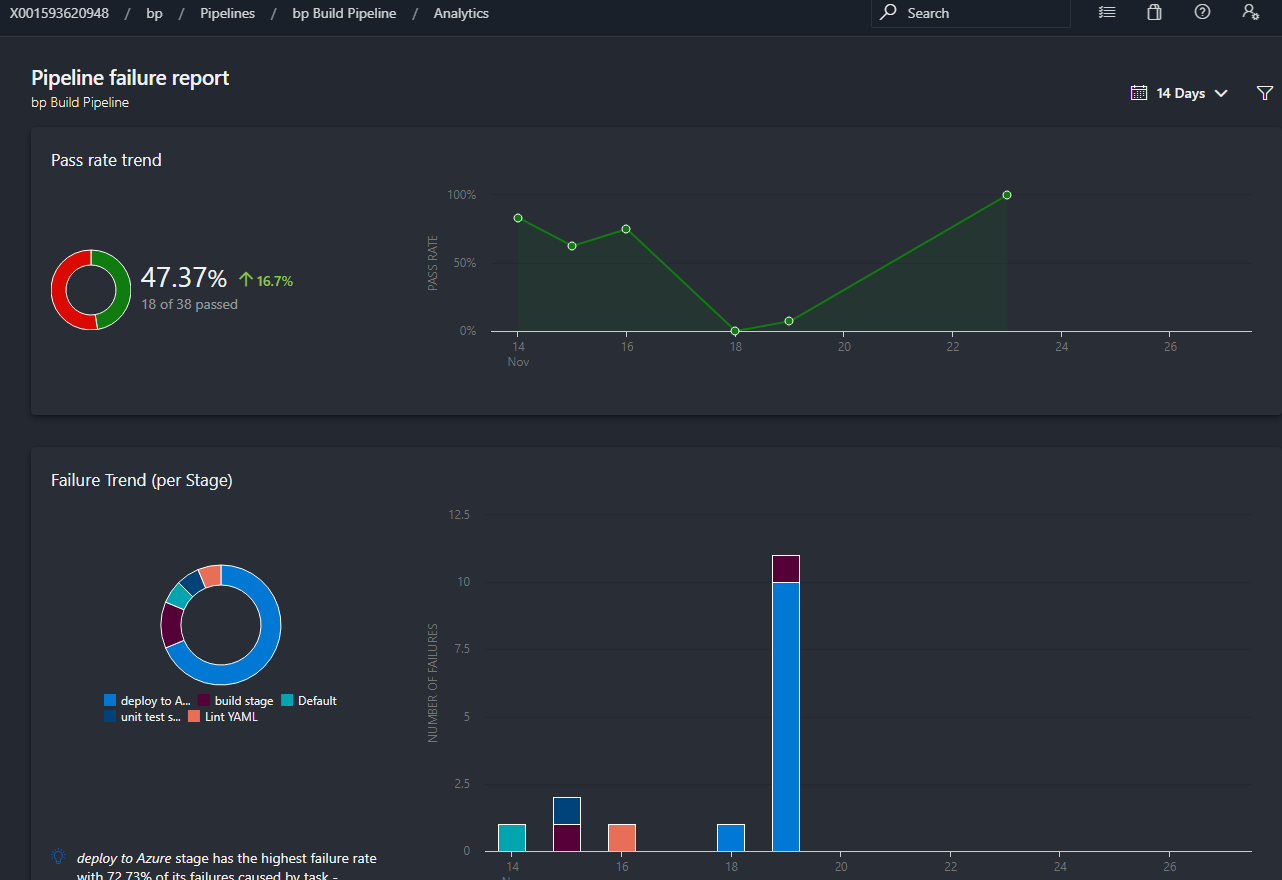
Output too verbose anyway…need to reduce

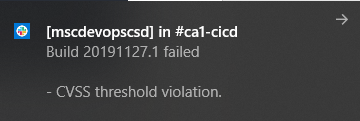
Existing failed tests

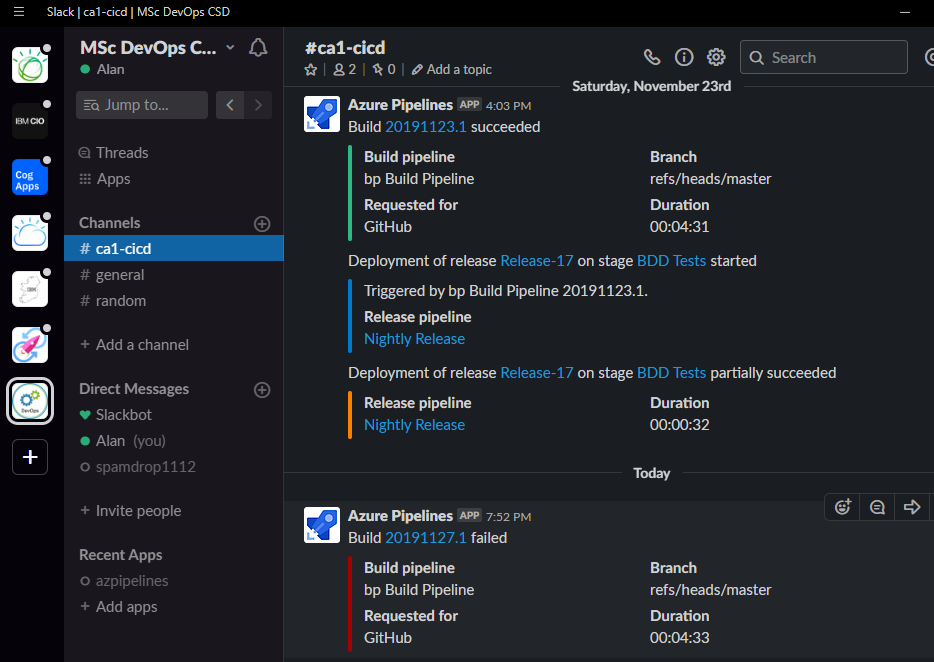


Analytics

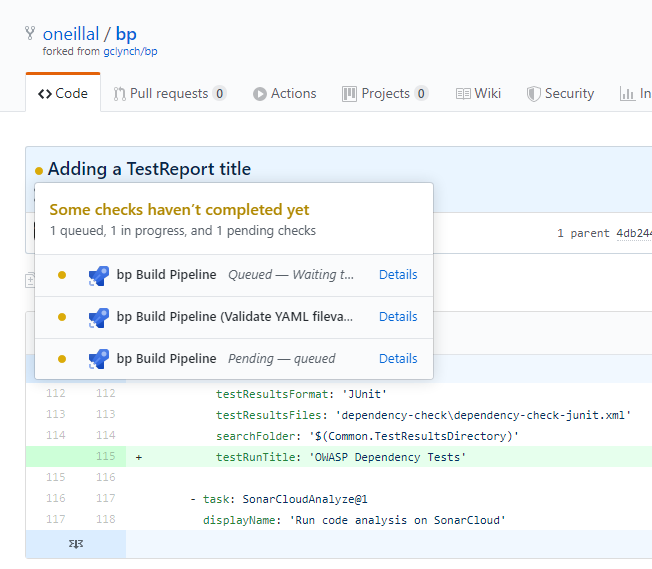






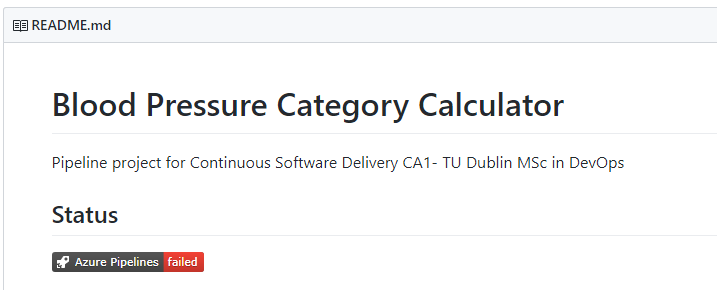


GitHub Build Dependency Checks

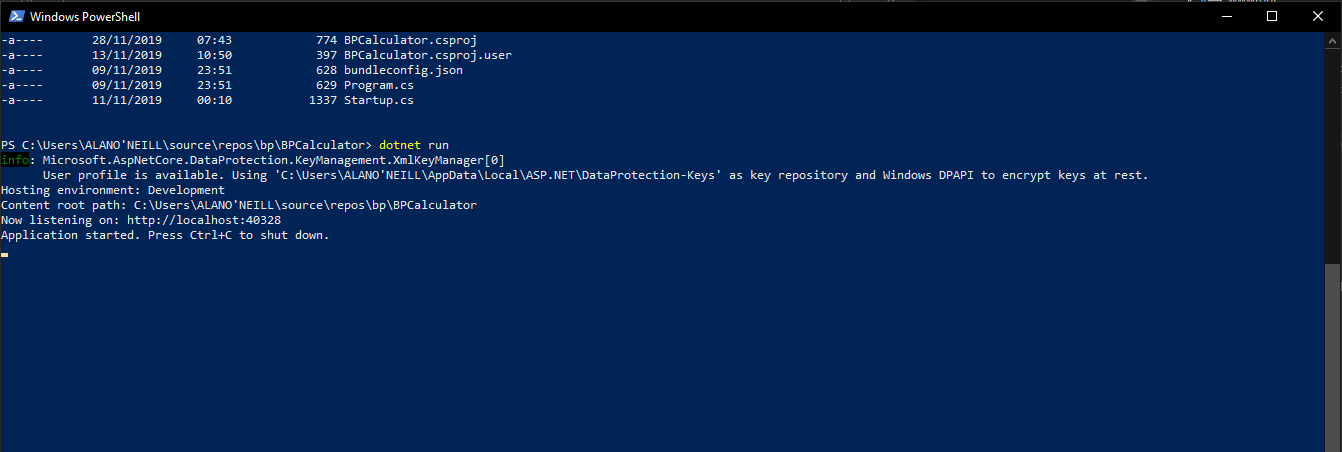


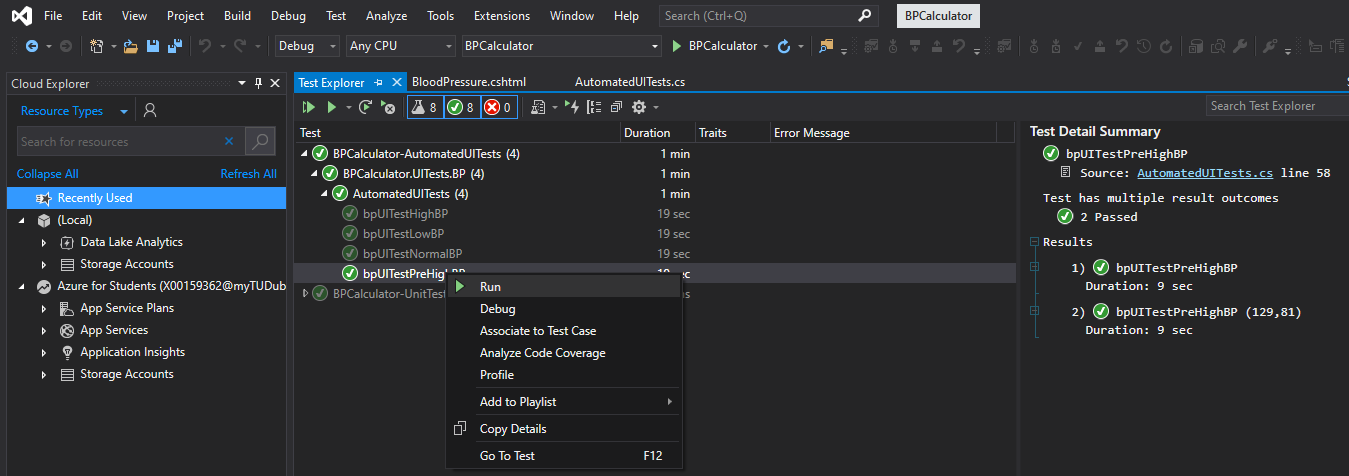
Build status badge…

Added markdown to display the hipster build status badges![![Build Status](https://dev.azure.com/X001593620948/bp/\_apis/build/status/bp%20Build%20Pipeline?branchName=master)](https://dev.azure.com/X001593620948/bp/\_build/latest?definitionId=4&branchName=master)

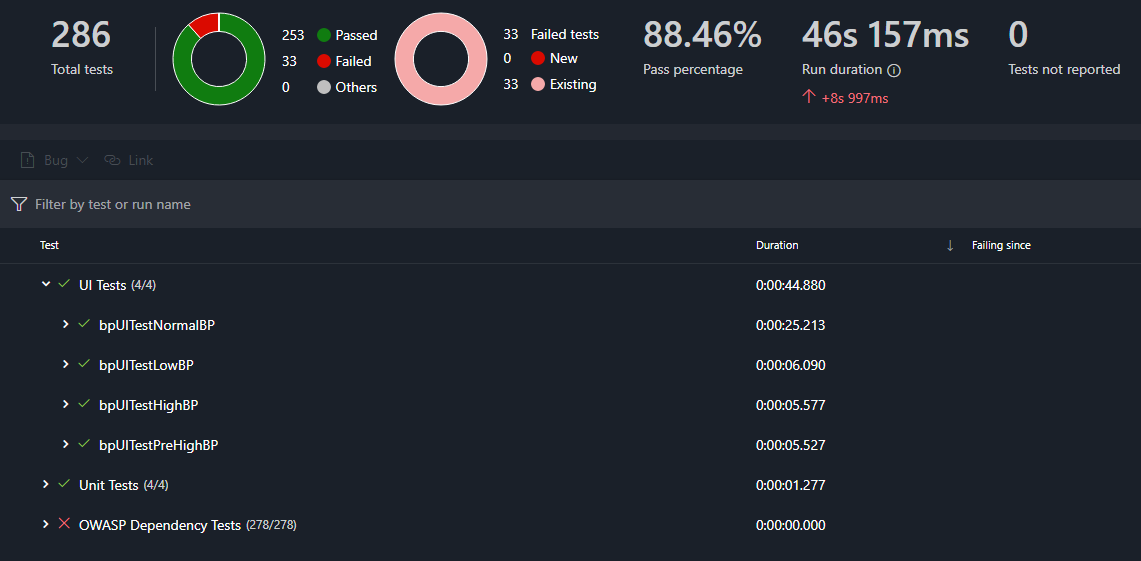


Selenium Tests

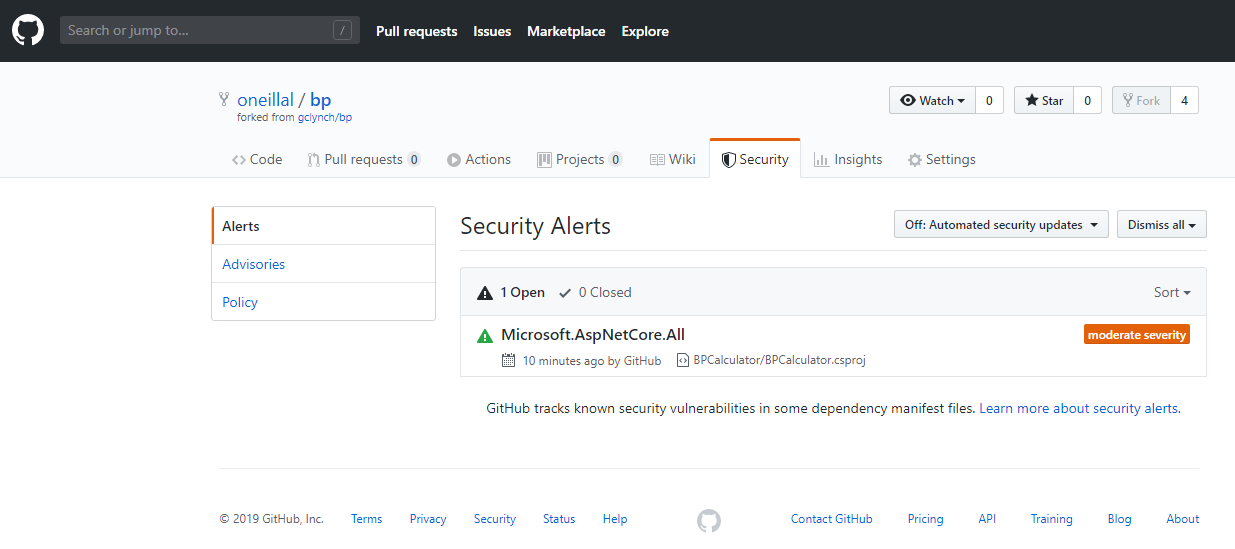


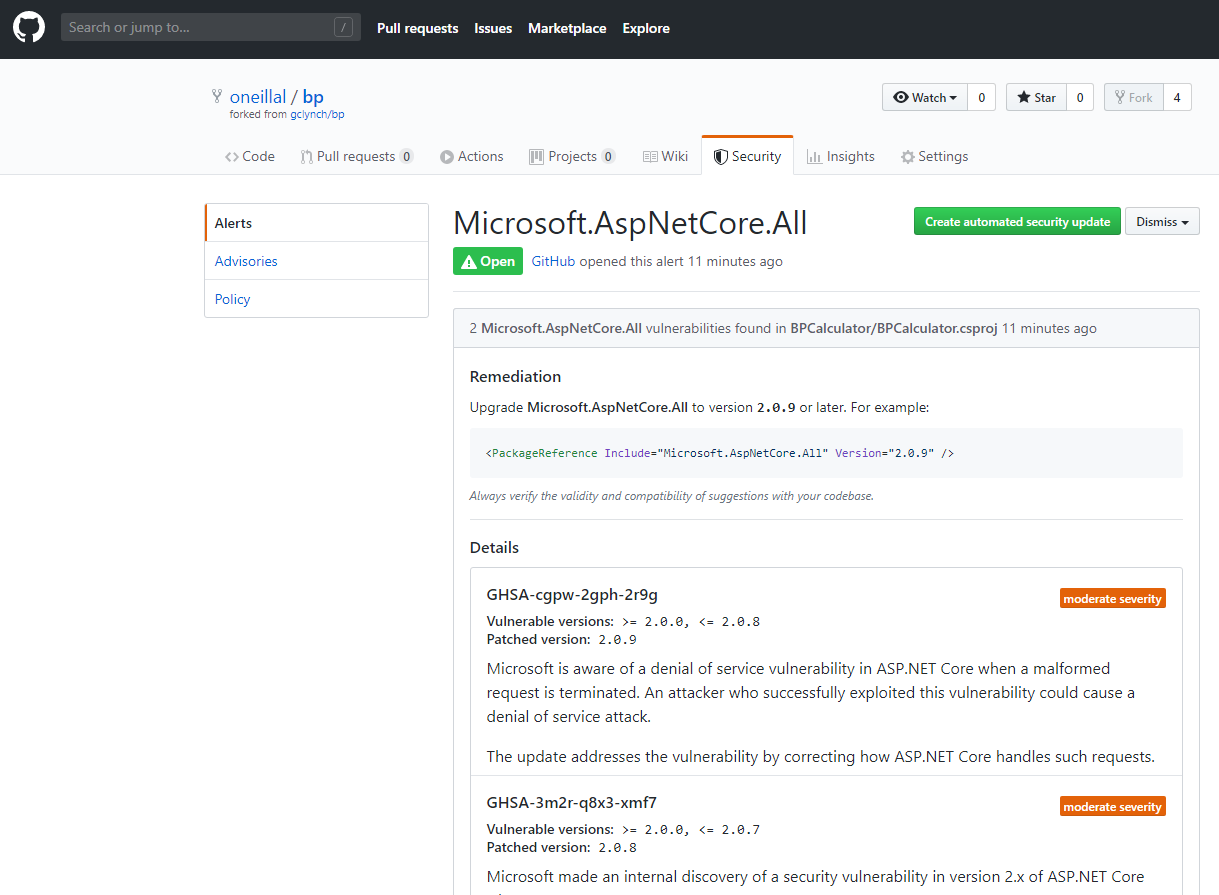


Added a test step post deploy against the deployed instance and captured the tests. Had some issues trying to figure out the paths to run the Selenium tests.



Security

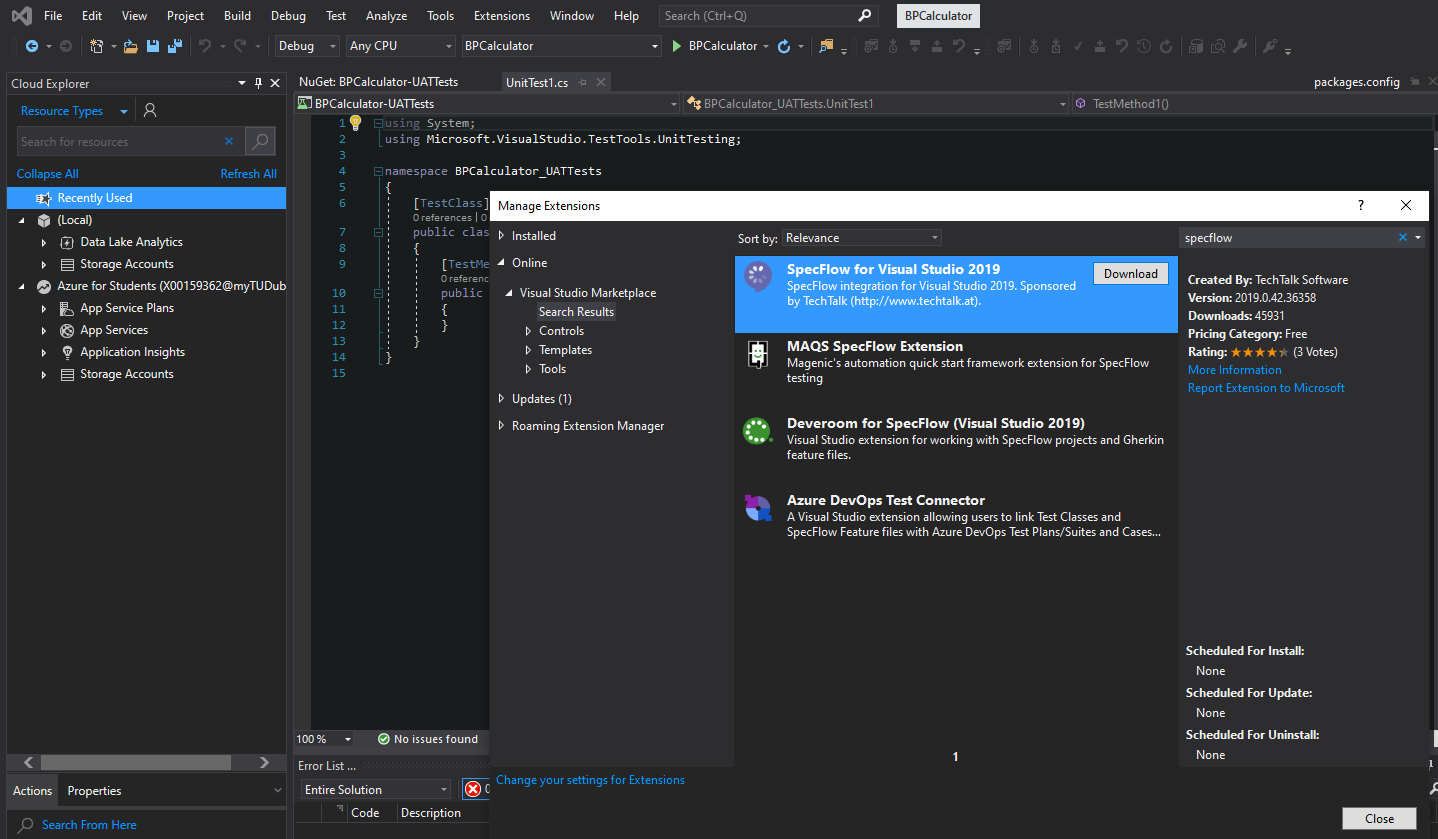


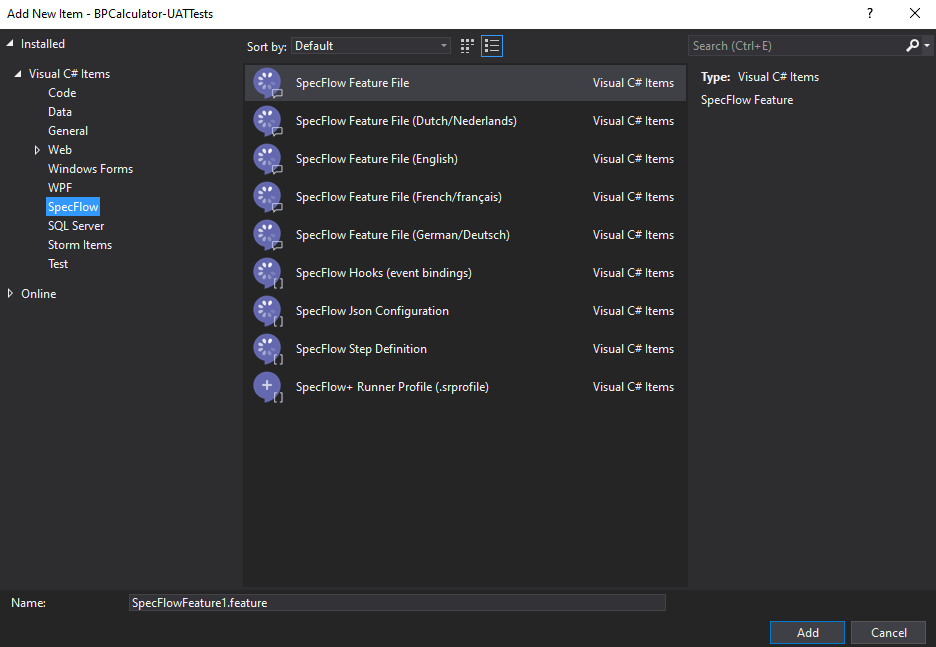


UAT Testing

Used a cucumber framework called SpecFlow: <https://specflow.org/getting-started/>

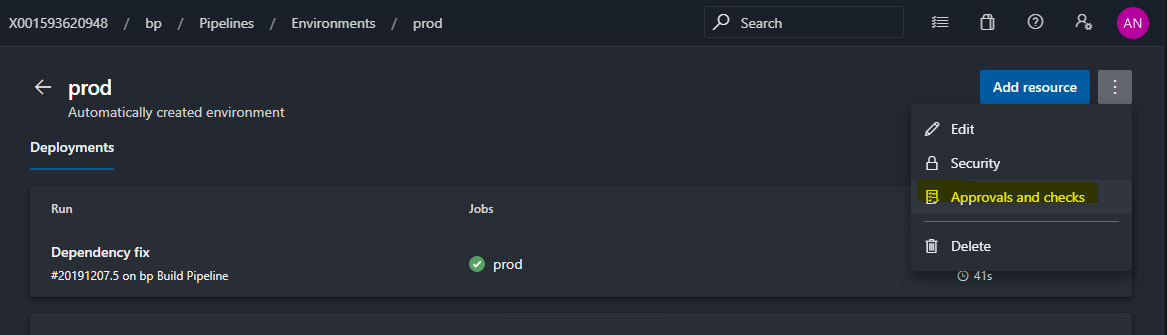
The guide was a little confusing and I couldn’t find a way to generate the Feature file. After deleting and recreating projects and messing with dependency versions, turns out that I needed a VS extension in order to work with the artefacts through wizards even though it said it’s not needed. Probably true but I installed it anyway.

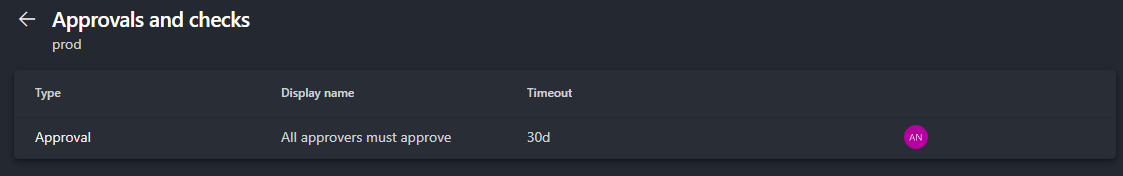




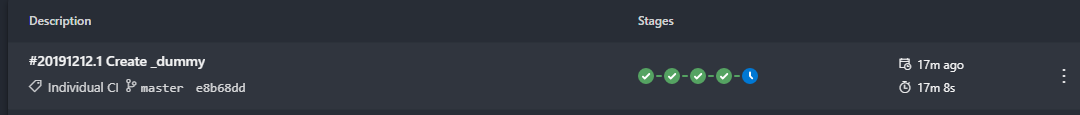
Approval Gate for Production

In Environments > prod and under the ellipsis menu, select Approval and checks and add approver(s):





Deployment step to prod is waiting for approval…



Approving deployment to Production through Azure Pipelines Slack app.

