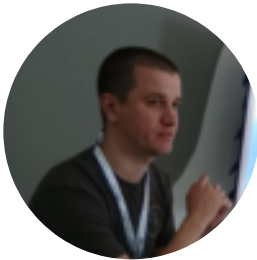




## Technical Articles



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August 12, 2021 | 1 minute read

## Running ABAP unit tests on GitHub Actions

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Ideally, unit tests are fast and only run the code in a single unit, ie. dependencies are mocked.

This makes unit tests great for [CI](#), but there is no easy way to spawn a new ABAP system for each commit(?).

But what if we go one step further and mock the ABAP system?

It's a *bit* more work, a *bit* more difficult, but fun 😊

The [abaplint transpiler](#) can run *some* ABAP on [GitHub Actions](#).

Using GitHub actions is free for public projects, and very useful when the changes can come from anywhere(untrusted).

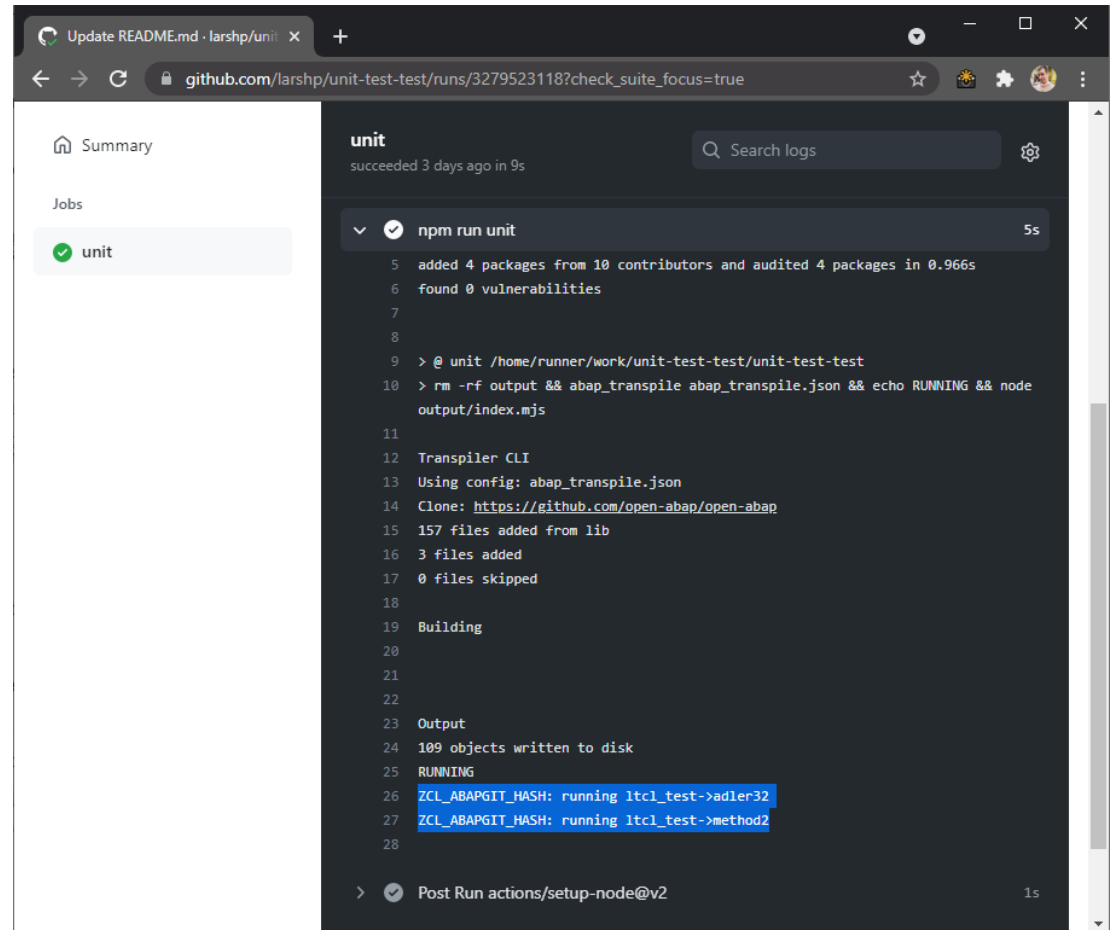
## Setup

I've prepared a sample repository, which can be cloned, and is open to test pull requests:

<https://github.com/larshp/unit-test-test>

Some basic [Node.js](#) knowledge is required, the scripts are located in [package.json](#) and work with [Node.js](#) 14+.

The Actions [workflow is configured](#) so the unit tests runs for each commit,



## Real Continuous Integration

Note how this is a real Continuous Integration setup, unit tests are run for each push for every developer, this setup is [running 300+ unit tests for abapGit in 18 seconds](#), giving fast feedback to the developer.

It might give false positives, but please see it as a [step running before involving a real system\(Scenario 9\)](#).

## Recommendations

If you would like to try it out, start early, and start with the basics of your application.

Keep strict track of all dependencies, [abaplint](#) can help with this.

If the code use 702+ syntax, an extra [downport](#) step must be added to the compilation.

And expect a lot of bugs 😊 as always, bug reports are [welcome on GitHub](#).

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