

# Practical Solutions



# Solution 1 - Setting up github.

The screenshot shows a web browser at the URL <https://github.com/SDiserens/Continuous-Integration-Lab>. The repository page includes a header with navigation links (Pull requests, Issues, Gist) and a sidebar with repository statistics (Watch: 0, Star: 0, Fork: 1). The main content area shows the repository description: "A repository for code used in a workshop on continuous integration". Below this, there are statistics for 3 commits, 1 branch, 0 releases, and 1 contributor. A section for recent commits lists three entries: "Get rid of failing unittests" by PeteB1989, "Get rid of matplotlib dependency" by FiniteElements.py, and "Get rid of failing unittests" by FiniteElementsTest.py. At the bottom, there is a prompt to "Add a README".

← → ↻ GitHub, Inc. [US] <https://github.com/SDiserens/Continuous-Integration-Lab>

Apps OldBookmarks Uni Rocket Soton

This repository Search Pull requests Issues Gist

SDiserens / Continuous-Integration-Lab Watch 0 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs

A repository for code used in a workshop on continuous integration

3 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

PeteB1989 Get rid of failing unittests Latest commit 5aa6073 8 days ago

FiniteElements.py	Get rid of matplotlib dependency	8 days ago
FiniteElementsTest.py	Get rid of failing unittests	8 days ago

Help people interested in this repository understand your project by adding a README. Add a README

# Task 3 Solution

**Source Code Management**

☐ None  
☒ Git

Repositories

Repository URL  ⓘ

**Failed to connect to repository : Command "git ls-remote -h https://github.com/SDiserens/Continuous-Integration-Lab.git HEAD" returned status code 128:**  
**stdout:**  
**stderr: fatal: unable to access 'https://github.com/SDiserens/Continuous-Integration-Lab.git/': Could not resolve host: github.com**

Credentials   ⓘ

Branches to build

Branch Specifier (blank for 'any')  ⓘ

Repository browser  ⓘ

Additional Behaviours

```
14:51:04 Started by user anonymous
14:51:04 Building on master in workspace /var/lib/jenkins/workspace/Finite_Element
14:51:04 [WS-CLEANUP] Deleting project workspace...
14:51:04 Cloning the remote Git repository
14:51:04 Cloning repository https://github.com/SDiserens/Continuous-Integration-Lab.git
14:51:04 > git init /var/lib/jenkins/workspace/Finite_Element # timeout=10
14:51:04 Fetching upstream changes from https://github.com/SDiserens/Continuous-Integration-Lab.git
14:51:04 > git --version # timeout=10
14:51:04 > git fetch --tags --progress https://github.com/SDiserens/Continuous-Integration-Lab.git +refs/heads/*:refs/remotes/origin/*
14:51:05 > git config remote.origin.url https://github.com/SDiserens/Continuous-Integration-Lab.git # timeout=10
14:51:05 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
14:51:05 > git config remote.origin.url https://github.com/SDiserens/Continuous-Integration-Lab.git # timeout=10
14:51:05 Fetching upstream changes from https://github.com/SDiserens/Continuous-Integration-Lab.git
14:51:05 > git fetch --tags --progress https://github.com/SDiserens/Continuous-Integration-Lab.git +refs/heads/*:refs/remotes/origin/*
14:51:06 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
14:51:06 > git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10
14:51:06 Checking out Revision 5aa6073a0f9170d8025418087395c59d3bd942b6 (refs/remotes/origin/master)
14:51:06 > git config core.sparsecheckout # timeout=10
14:51:06 > git checkout -f 5aa6073a0f9170d8025418087395c59d3bd942b6
14:51:06 > git rev-list 5aa6073a0f9170d8025418087395c59d3bd942b6 # timeout=10
14:51:06 [Finite_Element] $ /bin/sh -xe /tmp/hudson9012013110477865352.sh
```

# Task 4 - Solutions

## Build

### Execute shell

Command `echo ----- Starting user defined build section -----`  
`pwd`  
`python FiniteElements|.py`

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

Advanced...

# Task 5 - Solutions

## Build Triggers

☐ Trigger builds remotely (e.g., from scripts)  
☐ Build after other projects are built  
☐ Build periodically  
☐ GitHub hook trigger for GITScm polling  
☒ Poll SCM

Schedule

\*\*\*\*\*

**⚠ Do you really mean "every minute" when you say "\*\*\*\*\*"? Perhaps you meant "H\*\*\*\*\*" to poll once per hour**

Would last have run at Tuesday, 2 May 2017 17:20:33 o'clock BST; would next run at Tuesday, 2 May 2017 17:20:33 o'clock BST.

☐ Ignore post-commit hooks

Build Environment

Save

Apply

# Task 6 Solutions

☒ Poll SCM



Schedule



H/15 \* \* \* \*

Would last have run at Monday, 24 April 2017 20:56:27 o'clock BST; would next run at Monday, 24 April 2017 21:11:27 o'clock BST.

# Task 7 - Solution

## Post-build Actions



### Publish JUnit test result report



Test report XMLs

`**/test-reports/*.xml`

[Fileset 'includes'](#) setting that specifies the generated raw XML report files, such as 'myproject/target/test-reports/\*.xml'. Basedir of the fileset is [the workspace root](#).

☐ Retain long standard output/error



Health report amplification factor

1



1% failing tests scores as 99% health. 5% failing tests scores as 95% health

Allow empty results

☐ Do not fail the build on empty test results



Add post-build action ▼