



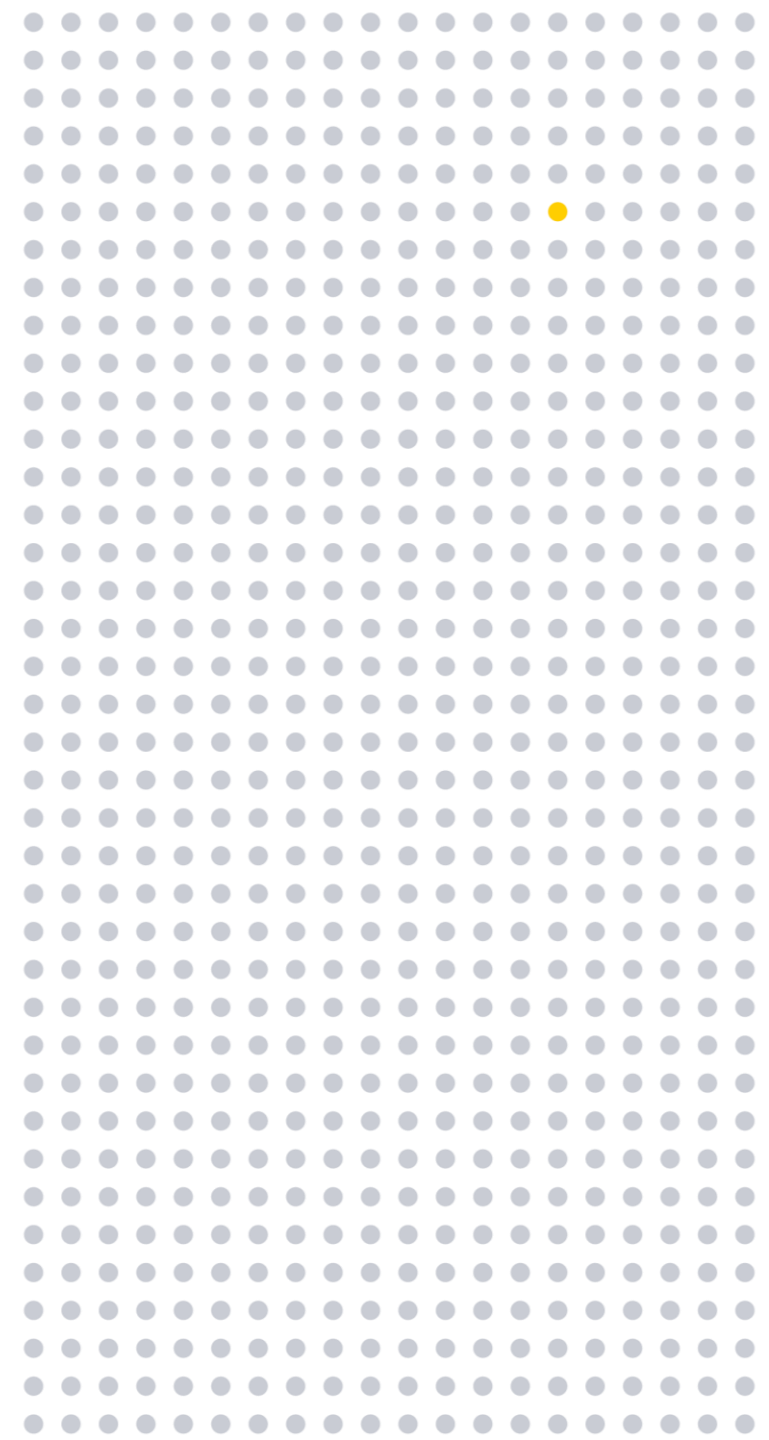
LAB 3

PURPOSE OF LAB

- Understanding of dynamic test scope and how it can be implemented
- Understanding of smart testing and how it can be implemented

Remember that you have the cheatsheets if you need help or you can send a message to us. [Labs and cheatsheets](#)

NOTE: All exercises assume that you have gone through the presentation by David



NOTE ABOUT LAB

- The pull request you will trigger in these labs is a pull request that creates a new product “app50” which contains a test
- Don’t forget that you have the cheatsheet. This lab can be a bit advanced even with Davids slides.

```
5 apps/app50/source/doit.sh
... @@ -0,0 +1,5 @@
1 + #!/bin/bash
2 +
3 + set -eu
4 +
5 + randomsleep
```

```
10 apps/app50/test/test.sh
... @@ -0,0 +1,10 @@
1 + #!/bin/bash
2 +
3 + set -eu
4 +
5 + THIS_DIR="$(dirname $(readlink -f ${BASH_SOURCE[0]}))"
6 +
7 + cd "${THIS_DIR}"
8 + echo "## Running tests for $(dirname "${THIS_DIR}")"
9 +
10 + ../source/doit.sh
```

LIST CHANGED FILES

- Create a Pipeline job called “Lab 3_1 <your name>”
- The job should trigger on the pull request comment “rebuild”
- The job should be possible to run manually as well as by pull request
- Run job "[Rebuild Pull Request 5](#)" to trigger a pull request.
- The pipeline should have 3 stages:
 - Setup
 - Clone the repository <https://github.com/dev4242/project-x/>
 - Checkout the incoming pull request
 - Build
 - Print the files that has been modified by the pull request
 - Cleanup
 - Clean the workspace

DYNAMIC TEST SCOPE

- Create a Pipeline job called “Lab 3_2 <your name>”
- The job should trigger on the pull request comment “rebuild”
- The job should be possible to run manually as well as by pull request
- When you run it manually, you should select with a parameter which tests will be run
- Run job "[Rebuild Pull Request 5](#)" to trigger a pull request.
- The pipeline should have 3 stages:
 - Setup
 - Clone the repository <https://github.com/dev4242/project-x/>
 - Checkout the incoming pull request
 - Build
 - Source the script “ci/setup.sh”
 - Make sure that the test.sh added by the pull request is run when the job is triggered
 - Cleanup
 - Clean the workspace

SMART TESTING

- Create a Pipeline job called “Lab 3_2 <your name>”
- The job should trigger on the pull request comment “rebuild”
- The job should be possible to run manually as well as by pull request
- When you run it manually, you should select with a parameter which tests will be run
- Run job [Rebuild Pull Request 5](#) to trigger a pull request.
- The pipeline should have 3 stages:
 - Setup
 - Clone the repository <https://github.com/dev4242/project-x/>
 - Checkout the incoming pull request
 - Build
 - Source the script “ci/setup.sh”
 - Run “/apps/appXX/test/test.sh” of the product(s) that has been affected by the pull request
 - Cleanup
 - Clean the workspace