

# Testing Policy - Docks

TripleParity

## Contents

|          |  |          |
|----------|--|----------|
| <b>1</b> | <b>Testing Process</b>                                 | <b>1</b> |
| 1.1      | Peer Review . . . . .                                  | 1        |
| 1.2      | Automated Testing and Continuous Integration . . . . . | 1        |
| 1.2.1    | Travis CI . . . . .                                    | 1        |
| 1.2.2    | Docker Cloud . . . . .                                 | 2        |

## 1 Testing Process

### 1.1 Peer Review

Before code can be merged into the develop branch a Pull Request has to be created. Three reviews are required from other developers before the pull request can be merged into develop.

During peer reviews the following should be checked:

- Architectural problems - will this cause problems in the future?
- Compliance with requirements and design - is that what we need?
- Coding Standards - proper code formatting and security standards?

### 1.2 Automated Testing and Continuous Integration

When a commit is made to the 'docks-ui' repository on GitHub two processes are started:

- [Travis CI](#) Builds the repository
- [Docker Hub](#) builds the repository and creates a Docker Image that can be deployed in production

#### 1.2.1 Travis CI

The history of test reports for Travis CI can be viewed at <https://travis-ci.org/TripleParity/docks-ui/branches>. If the build was not successful it will be marked as 'failed'

Travis CI is used for running tests associated with each repository.

For the frontend Angular generates a set of tests for each component to verify that the component was successfully created. These tests run inside a headless (no screen required) Chrome browser.

The backend also has a suite of unit tests that are executed on Travis CI.

### Default Branch

|                     |                            |                             |   |  |  |  |  |  |
|---------------------|----------------------------|-----------------------------|---|--|--|--|--|--|
| ✓ master<br>1 build | # 48 passed<br>27 days ago | ff703e7<br>Evert Geldenhuys | ✓ |  |  |  |  |  |
|---------------------|----------------------------|-----------------------------|---|--|--|--|--|--|

### Active Branches

|                         |                                |                      |   |   |   |   |   |   |
|-------------------------|--------------------------------|----------------------|---|---|---|---|---|---|
| networks2<br>3 builds   | # 263 started<br>-             | 10affa1<br>CDuPlooy  | ⚙ | ✓ | ✗ |   |   |   |
| ✗ loginPage<br>2 builds | # 262 failed<br>19 minutes ago | 95d81d1<br>Paul Wood | ✗ | ✗ |   |   |   |   |
| ✓ develop<br>19 builds  | # 261 passed<br>29 minutes ago | 8119ea9<br>GitHub    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Figure 1: Screenshot of Travis CI branch build history

### 1.2.2 Docker Cloud

Docker images are build on [Docker Cloud](#). These image can then be deployed in a production environment or for development and testing. Images can be viewed at <https://hub.docker.com/u/tripleparity/>

|                |   |  |   |
|----------------|---|--|---|
| 12 minutes ago | ⌚ | Build in 'loginPage' (95d81d14)              | ✓ |
| 23 minutes ago | ⌚ | Build in 'develop' (8119ea9d)                | ✓ |
| 28 minutes ago | ⌚ | Build in 'volumeHtml' (a16d336b)             | ✓ |
| 37 minutes ago | 🔄 | Build in 'service-operations-#41' (4a388ff5) | ✓ |
| an hour ago    | ✓ | Build in 'service-operations-#41' (5ab5d577) | ✓ |
| an hour ago    | ✓ | Build in 'volumeHtml' (98dd996b)             | ✓ |
| an hour ago    | ✓ | Build in 'networks2' (d06c71ae)              | ✓ |
| an hour ago    | ✗ | Build in 'service-operations-#41' (d3b56073) | ✗ |
| an hour ago    | ✗ | Build in 'networks2' (20c6f673)              | ✗ |
| an hour ago    | ✓ | Build in 'service-operations-#41' (911d1723) | ✓ |

Figure 2: Screenshot of Docker Cloud Build History