

Save Time: use Selenium Grid

Matias Caruso

Martin Villarruel

Matias Caruso

HAUFE.Group

Test Automation Engineer

Haufe Group

Argentina

Barcelona

No internet at home

Martin Villarruel

Dublin, Ireland

Test Automation Engineer

Verizon Connect

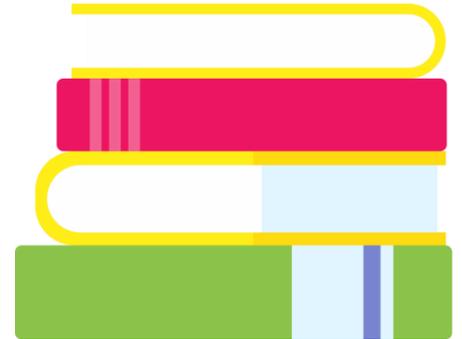
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Summary

- Theory about Selenium Grid.
- Configure and connect the Nodes whit the Hub.
- Run the Hub and Nodes on Docker Images.
- Setup a Test Suite to run on the Nodes.
- Tips and tricks to avoid usual mistakes.



Introduction

What?

Selenium-Grid is a tool that allows you run your tests on different machines against different browsers/OS in parallel.

When?

Versatility: To run your tests against multiple browsers, multiple versions of browser, and browsers running on different operating systems.

Velocity: To reduce the time it takes for the test suite to complete a test pass.

Grid Architecture

A grid consists of a single hub, and one or more nodes.

Hub

The hub is the central point where you load your tests into and distribute them.

Acts as a server, so it acts as a central point to control the network of test machines.

Each test set with DesiredCapabilities is given to hub, it search for the node which matches the given configuration



Grid Architecture

A grid consists of a single hub, and one or more nodes.



Nodes

Nodes are the Selenium instances that will execute the tests.

A Grid network can have multiple nodes.

A node is supposed to have different platforms, i.e. different operating system and browsers.

The node does not need the same platform for running as that of the hub.

Hands on

Selenium Grid

<https://bit.ly/2TlkRyu>

```
java -jar selenium-server-standalone-3.6.0.jar -  
role hub
```

<http://localhost:4444/grid/console>

```
java -jar selenium-server-standalone-3.6.0.jar -  
role node -port 5556
```

- NOTE: You now have to give path to the Gecko driver if using Firefox.

<https://github.com/MatiCaruso/SaveTime>

```
docker-compose -f docker-compose.yaml up
```

```
docker-compose -f docker-compose.yaml down
```

Thank you



**Matias Ezequiel
Caruso**

QA Automation Engineer en
Haufe-umantis AG



Haufe-umantis AG



Instituto Belgrano

[Ver perfil](#)

LinkedIn



Martin Villarruel

QA Automation Engineer at
Verizon Connect



Verizon Connect



Instituto Superior Urquiza

[View profile](#)

LinkedIn