

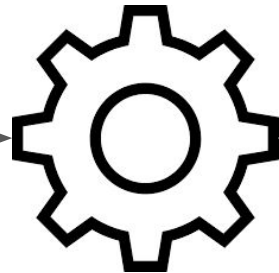
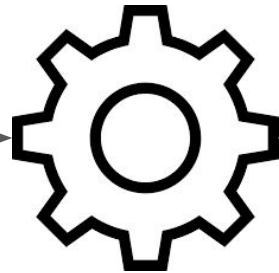
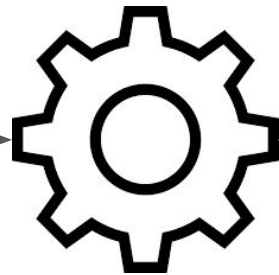
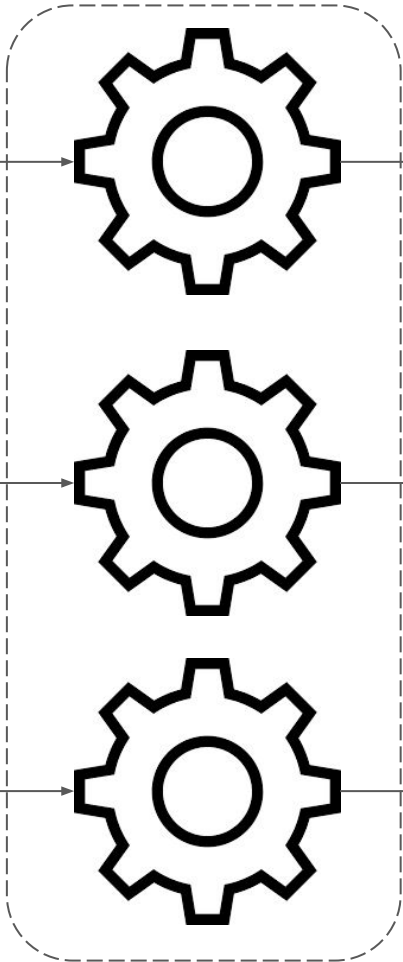
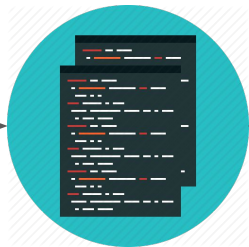
# 14 - Selenium Grid

# Selenium



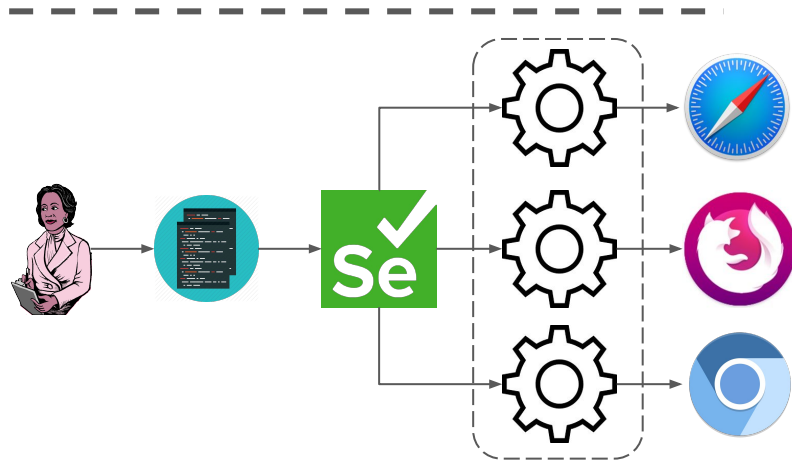
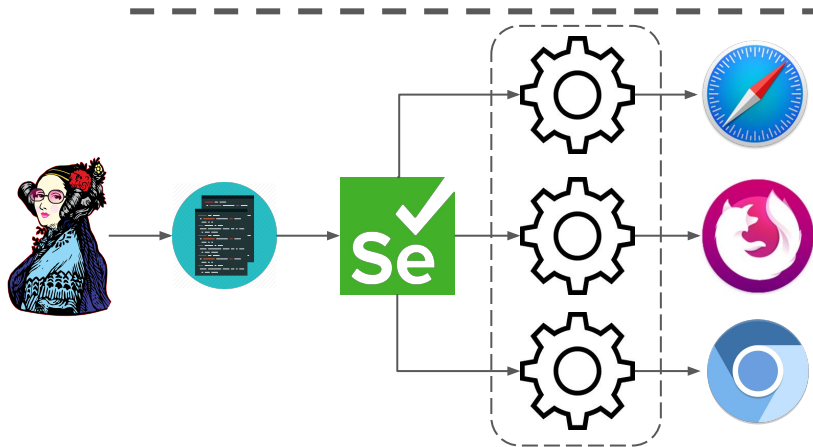
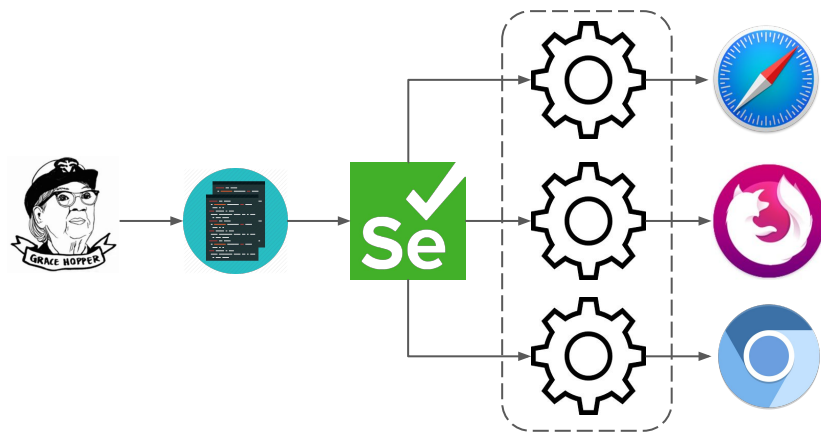
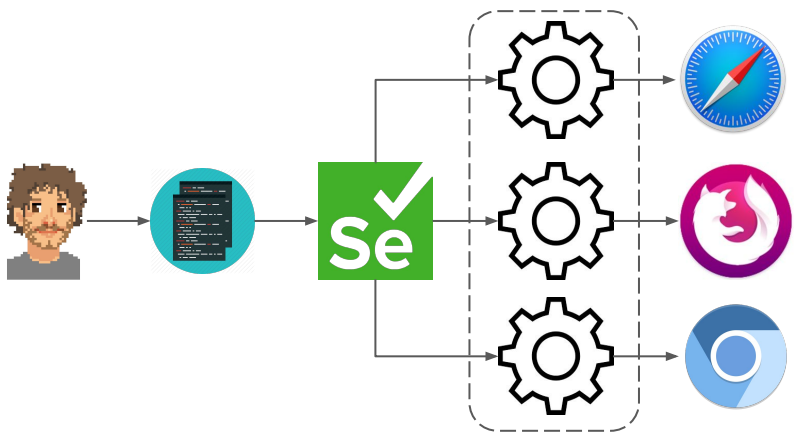
# Selenium WebDriver

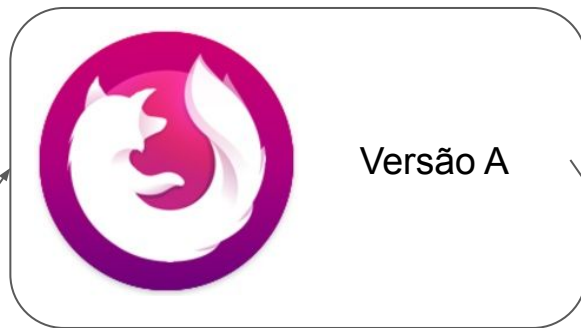




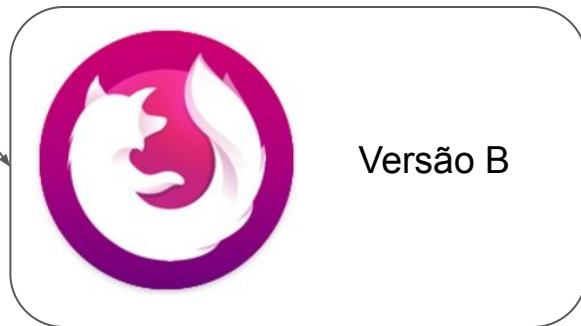
web drivers

Nem tudo são flores!





Versão A



Versão B



`/usr/bin/firefox`



Alan Turing

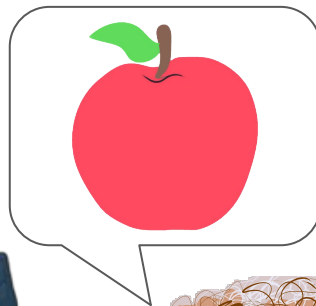




Ada Lovelace



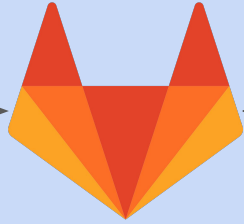
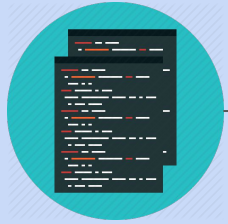
Grace Hopper



Barbara Liskov



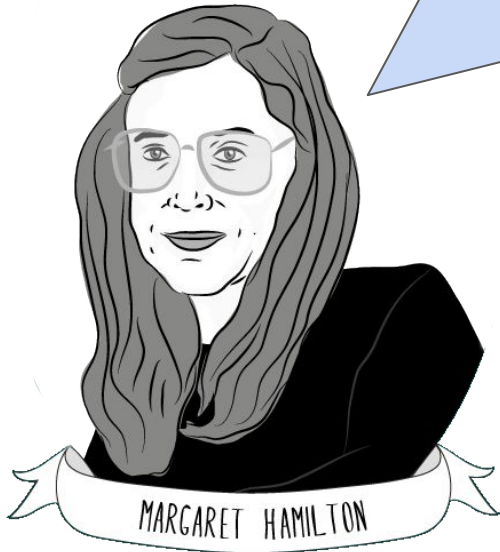
Alan Turing



Repositório



Integração  
Contínua



Bá, qual a versão do  
Gecko driver que tenho  
que usar pra funcionar  
com o Firefox 57?



Annie Easley

Você tem que ir no site  
de releases do gecko  
pra saber! :(



Barbara Liskov



Annie Easley

<> Code

🔔 Issues 147

🔗 Pull requests 0

🛡 Security

📊 Insights

Releases

Tags

Latest release

🏷 v0.26.0

🔑 79bc0ed

# v0.26.0

 andreastt released this 5 days ago

Built from [e9783a644016](#) .

Note that with this release the minimum recommended Firefox version has changed to Firefox  $\geq 60$ .

# Selenium Grid



# Selenium Grid (por selenium\*)

O Selenium Grid leva o WebDriver a outro nível, executando testes em muitas máquinas ao mesmo tempo, reduzindo o tempo necessário para testar em vários navegadores e sistemas operacionais.

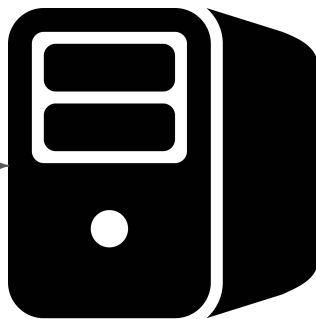
- Suporta vários navegadores, versões e sistemas operacionais
- Reduzir o tempo de execução
- Paraleliza execuções



Automações



Time



HUB

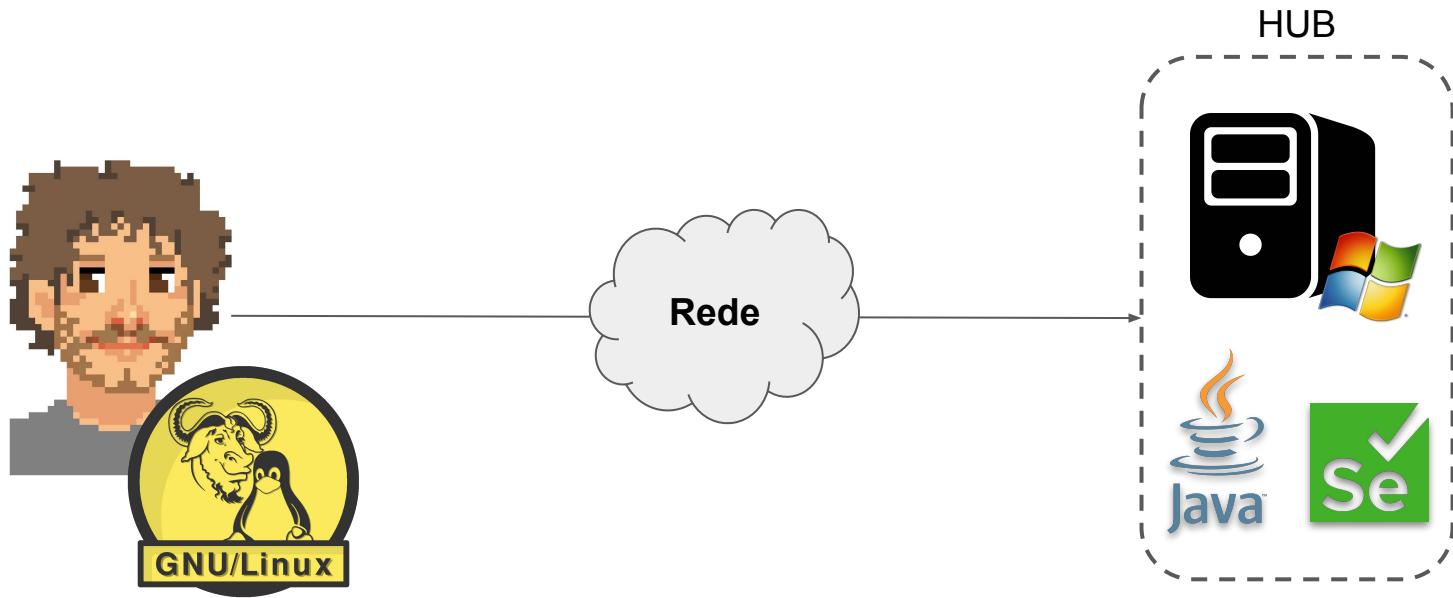


Nodes



Bora sujar as mãos!





## Downloads

Below is where you can find the latest releases of all the Selenium components. You can also find a list of previous releases, source code, and additional information for Maven users.

[Previous Releases](#)

### Selenium Server (Grid)

The Selenium Server is needed in order to run Remote Selenium WebDriver (Grid).

Latest stable version [3.141.59](#)

To use the Selenium Server in a Grid configuration see the [documentation](#).

Latest Selenium 4 Alpha version [4.0.0-alpha-6](#)

# Deixando o hub disponível

```
java -jar .\selenium-server-standalone-<versão>.jar -role hub
```

# Deixando o hub disponível

```
java -jar .\selenium-server-standalone-3.141.59.jar -role hub
```

# Instalando o java no windows

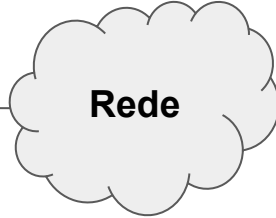
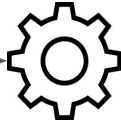
```
choco install jdk8
```

Onde o server fica disponível?

localhost:4444



```
browser = Remote(  
    command_executor='your-remote-webdriver-url',  
    desired_capabilities=capabilities,  
)
```



HUB



# Capabilities (básico essencial)

chave	tipo	faz o que?	Padrão
browserName	string	Diz para o grid qual o browser que você quer	N/A
version	string	Diz para o grid qual a versão do browser que você escolheu	QUALQUER
platform	string	Diz em qual plataforma você quer rodar (WINDOWS, LINUX, MAC, XP, VISTA, ANDROID)	ANY

# Capabilities para acessar (básico essencial)

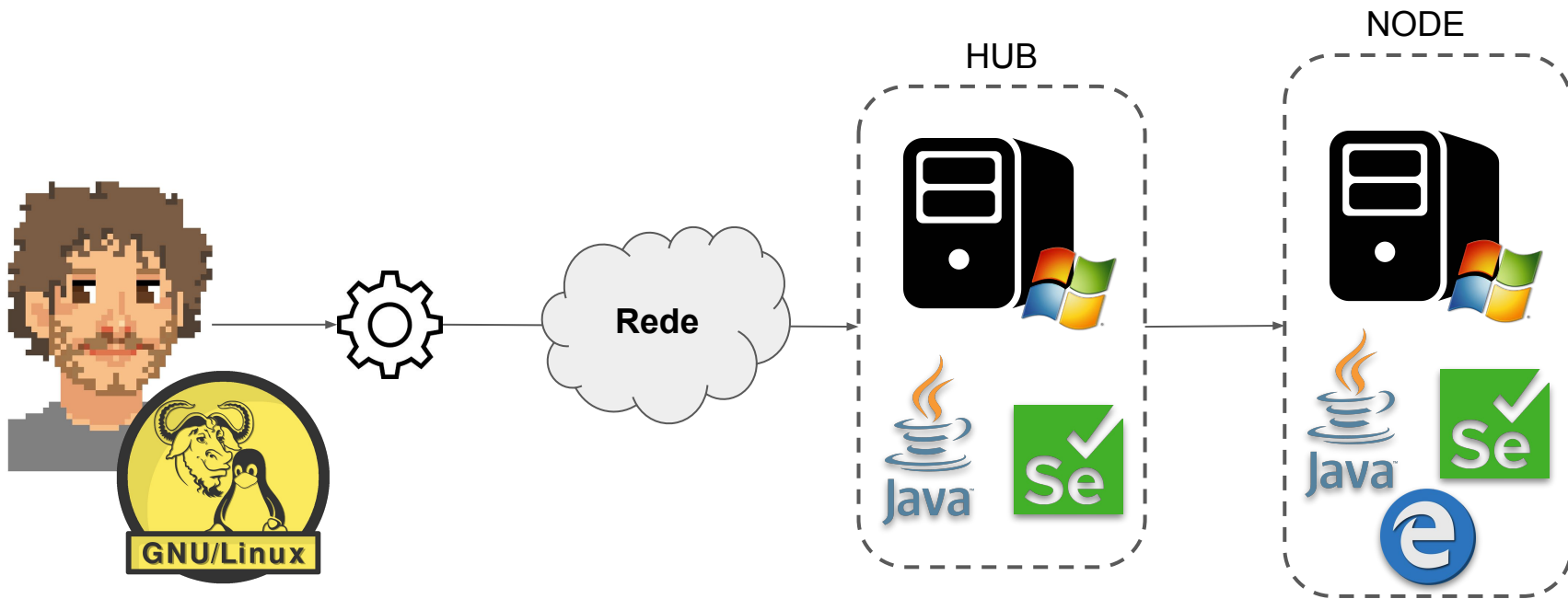
chave	tipo	faz o que?	Padrão
browserName	string	Diz para o grid qual o browser que você quer	N/A
version	string	Diz para o grid qual a versão do browser que você escolheu	QUALQUER
platform	string	Diz em qual plataforma você quer rodar (WINDOWS, LINUX, MAC, XP, VISTA, ANDROID)	ANY

```
capabilities = {  
  "browserName": "internet explorer"  
}
```

# Capabilities (básico esencial)

```
capabilities = {  
    "browserName": "internet explorer"  
}
```

```
browser = Remote(  
    command_executor='your-remote-webdriver-url',  
    desired_capabilities=capabilities,  
)
```



# Deixando o hub disponível



```
java -jar .\selenium-server-standalone-3.141.59.jar -role node
```



# Capabilities para servir (básico esencial)

```
{  
  "capabilities": [  
    {  
      "browserName": "opera",  
      "maxInstances": 5,  
      "seleniumProtocol": "WebDriver"  
    }  
  ],  
  "port": 5555,  
  "hub": "http://localhost:4444",  
  "role": "node"  
}
```

node\_config.json



# Deixando o hub disponível



```
java -jar .\selenium-server-standalone-3.141.59.jar  
-role node  
-nodeConig node_config.json
```

Nem tudo são flores!

1. Não existe uma  
maneira programática  
de montar essa  
arquitetura.

- Instalar o java
- Baixar o selenium
- Baixar os web drivers
- Desempacotar os web drivers
- Instalar todas as versões de browsers correspondentes

Repetir operação em todos os nodes com SOs diferentes

2. Browsers sem foco

3. Custo para manter a infra

4. Não suporta bem mobile\*

[picpay.me/dunossauro](https://picpay.me/dunossauro) | [apoia.se/livedepython](https://apoia.se/livedepython)

PicPay

APOIA.se



# picpay.me/dunossauro | apoia.se/livedepython

```
dunossauro at babbage in ~/git/apoiase on master*  
$ python apoiadores.py  
ADRIANO FERRARI      ALBERTO TAVARES      Alex Lima             Alexandre Possebom    Alexandre Santos  
Alexandre Sá         Alexandre Tsuno       Alexandre Villares    Alynne Ferreira       Alysson Oliveira  
Amaziles Carvalho    And Past              Andre Machado         Andre Rodrigues        Athayr Athayr  
Bernardo Fontes      Bruno Barros          Bruno Oliveira        Bruno Gaffuri          Bruno Guizi  
Bruno Luna           Bruno Lira            Bruno Rocha           CARLOS SANTOS         Caio Nascimento  
Carlos Cardoso       Carlos Augusto        Carol Souza           Cleber Santos          Cleiton Mittmann  
Cleiton Lima         DYLAN MAKER          Davi Ramos            David Reis             David Silva  
Davinir Junior       Dayham Soares        Diego Guimarães       Diego Ubirajara        Dilenon Delfino  
Douglas Bastos      EDUARDO PAZZI        Edimar Fardim         Eduardo Guadanhim      Eduardo Nunes  
Eliabe Silva         Eliakim Morais       Elias Soares          Elias Soares           Eliel Lima  
Emerson Lara         Emerson Lara          Eugenio Mazzini       Eugenio Mazzini        Fabiano Silos  
Fabiano Teichmann    Fabiano Gomes        Fabrício Coelho       Fausto Caldeira        Fernando Furtado  
Filipe Cruz          FlavKaze FlavKaze     Franklin Silva        Fábio Serrão           Gabriel Simonetto  
Gabriela Santiago    Geandreson Costa     Gladson Menezes       Gleison Oliveira       Guilherme Ramos  
Helter Silva         Hemilio Lauro        Humberto Rocha        Hélio Neto             Hélio Neto  
Isaac Ferreira       JONATHAN DOMINGOS    Jean Vetorello        Johnny Tardin          Jonatas Oliveira  
Jonatas Simões       Jonatas Oliveira     Jorge Plautz          José Prado             Jovan Costa  
João Lúgão           João Coelho          Juan Gutierrez        Jucélio Silva          Júlia Kastrup  
Kauan Alves          LEONARDO CRUZ        Leon Teixeira         Leonardo Rezende       Letícia Silva  
Lucas Mendes         Lucas Nascimento     Lucas Neris           Lucas Valino           Lucas Polo  
Magno Malkut         Maiquel Leonel       Marcello Benigno      Marcus Salgues         Maria Boladona  
Maria Clara          Mateus Braga         Matheus Francisco     Melisa Campagnaro      Nilo Pereira  
Nídio Dolfini        Octavio Sydow        Pablo Henrique        Patrick Corrêa         Patrick Gomes  
Paulo Tadei          Pedro Alves          Rafael Galleani       Rafael Dias            Regis Santos  
Renan Gomes          Renan Moura          Renato Santos         Rennan Almeida         Renne Rocha  
Rhenan Bartels       Ricardo Schalch      Richard Nixon         Rodrigo Ferreira        Rodrigo Vaccari  
Régis Tomkiel        Sérgio Passos        Thais Viana           Thiago Araujo           Tiago Cordeiro  
Tyrone Damasceno     Valdir Junior        Valdir Silveira       Vergil Valverde        Vicente Marcal  
Victor Geraldo       Vinícius Ferreira    Vitor Dutra           Vítor Zanoni           Wander Silva  
Wellington Carlos    Wellington Camargo    Welton Souza          William Oliveira        William Oliveira  
Willian Lopes        Willian Lopes        Willian Rosa          Yros Aguiar            Falta você
```

