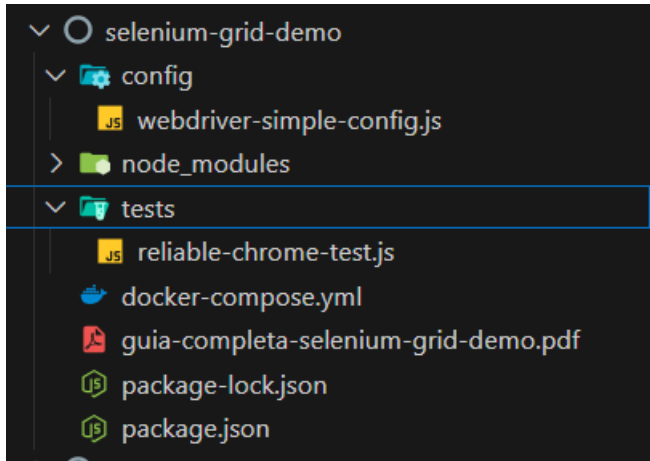
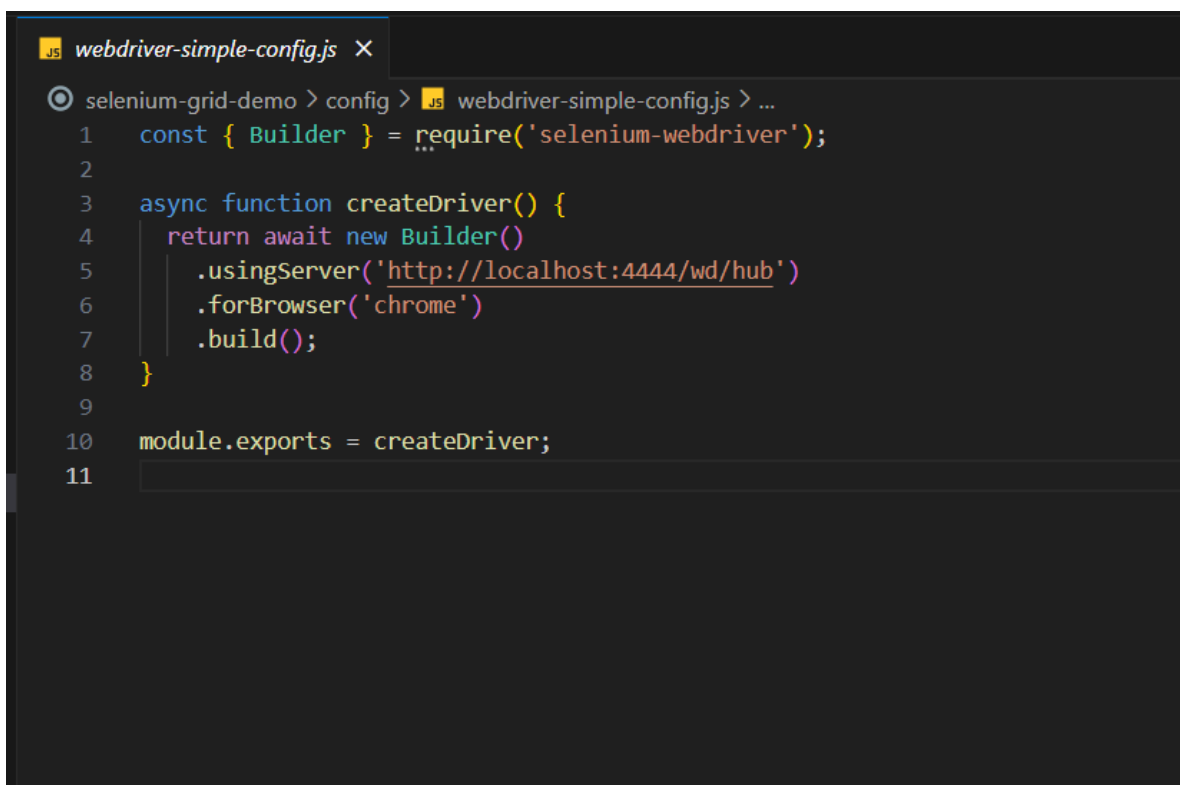


Reto 2. Selenium WebDriver y Grid.

1- Debe tener la siguiente estructura (5 puntos)



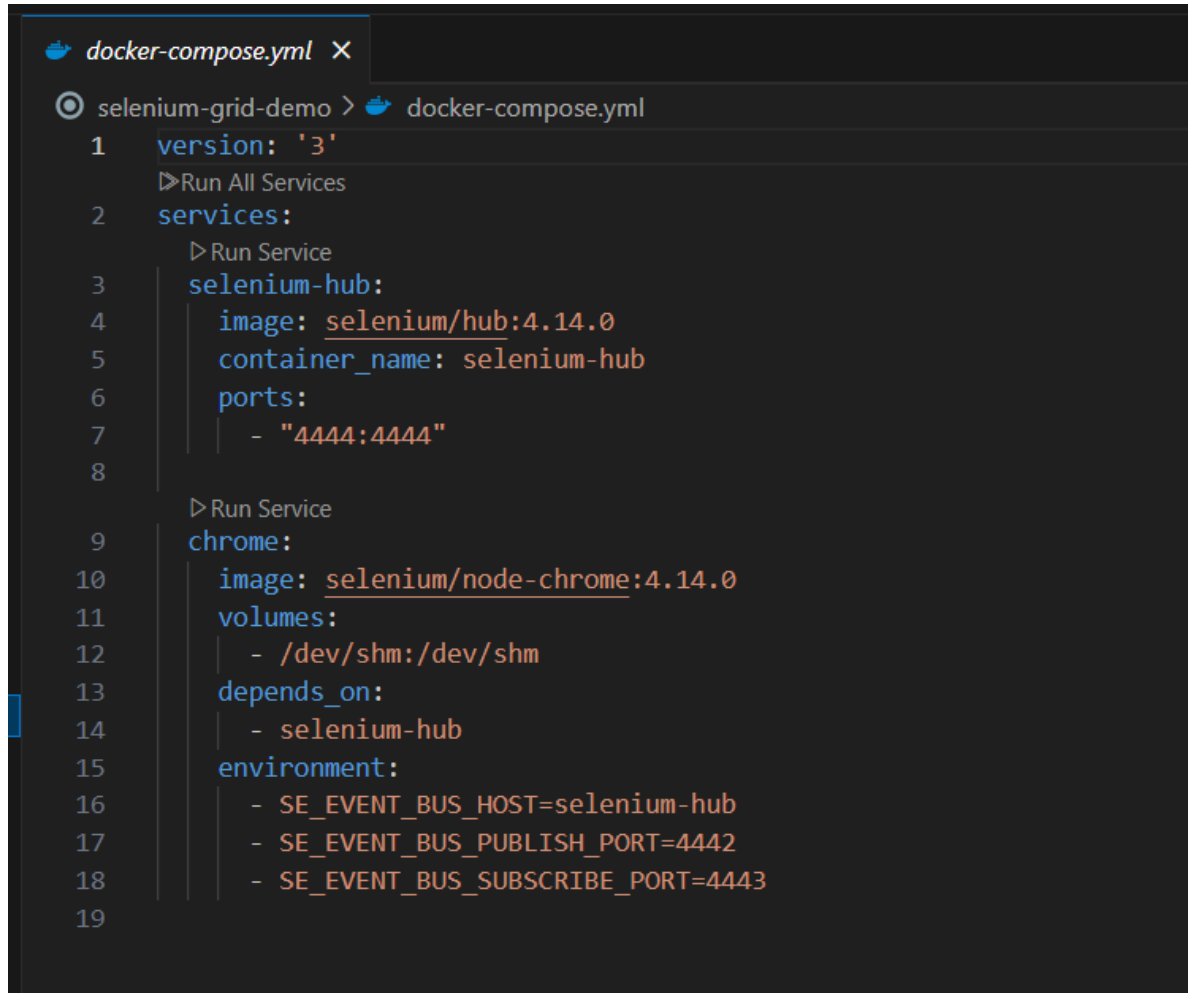
2- En webdriver-simple-config.js debe de tener la configuración e instanciamiento general del webdriver para chrome. (25 puntos).



- 3- En reliable-chrome-test.js debe tener un caso de prueba de un Login éxitos a la página: <https://www.saucedemo.com/>, usa los valores:
- ```
sendKeys('standard_user');
```
- ```
sendKeys('secret_sauce');
```
- (25 puntos)

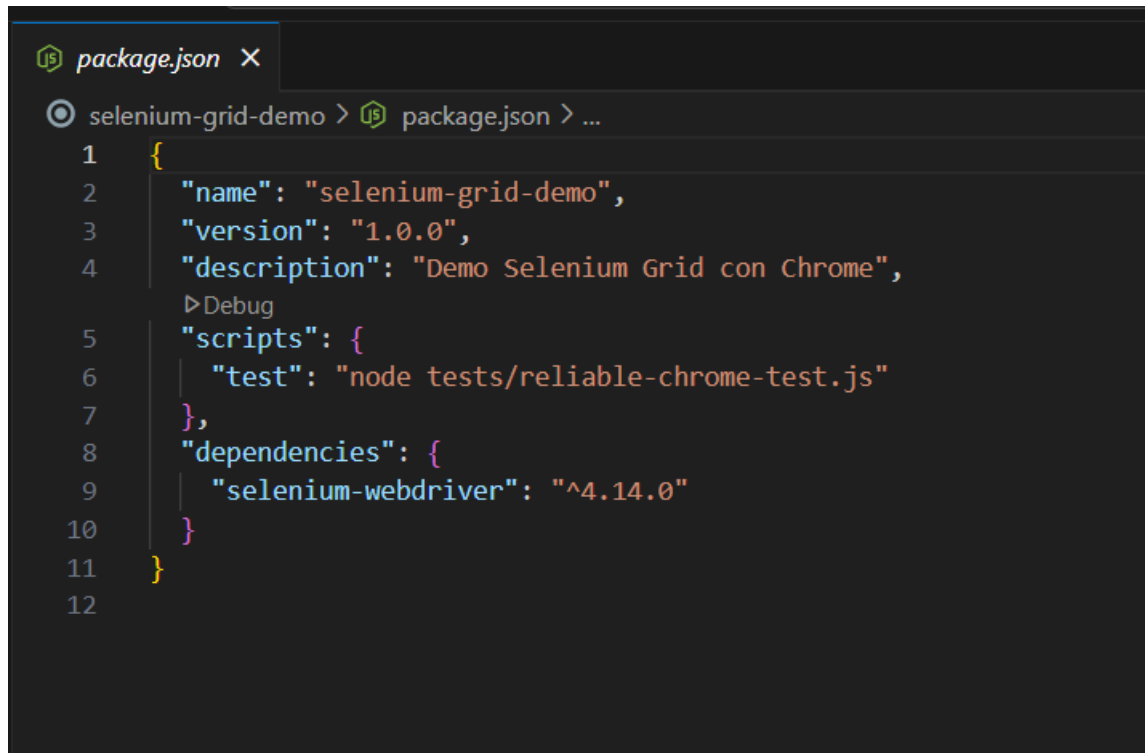
```
reliable-chrome-test.js X
selenium-grid-demo > tests > reliable-chrome-test.js > ...
1  const createDriver = require('../config/webdriver-simple-config');
2  const { By } = require('selenium-webdriver');
3
4  (async function loginTest() {
5    const driver = await createDriver();
6
7    try {
8      await driver.get('https://www.saucedemo.com/');
9      await driver.findElement(By.id('user-name')).sendKeys('standard_user');
10     await driver.findElement(By.id('password')).sendKeys('secret_sauce');
11     await driver.findElement(By.id('login-button')).click();
12
13     await driver.sleep(3000);
14     const currentUrl = await driver.getCurrentUrl();
15     console.log('Login exitoso, URL actual:', currentUrl);
16   } catch (error) {
17     console.error('Error en la prueba:', error);
18   } finally {
19     await driver.quit();
20   }
21 })();
22
```

- 4- Configura el Docker compose con los 2 nodos (25 puntos)
- a. selenium-hub
 - b. selenium-chrome



```
docker-compose.yml X
selenium-grid-demo > docker-compose.yml
1 version: '3'
  Run All Services
2 services:
  Run Service
3 selenium-hub:
4   image: selenium/hub:4.14.0
5   container_name: selenium-hub
6   ports:
7     - "4444:4444"
8
  Run Service
9 chrome:
10  image: selenium/node-chrome:4.14.0
11  volumes:
12    - /dev/shm:/dev/shm
13  depends_on:
14    - selenium-hub
15  environment:
16    - SE_EVENT_BUS_HOST=selenium-hub
17    - SE_EVENT_BUS_PUBLISH_PORT=4442
18    - SE_EVENT_BUS_SUBSCRIBE_PORT=4443
19
```

5- Configura el package.json para el testing (5 puntos)



```
package.json X
selenium-grid-demo > package.json > ...
1  {
2    "name": "selenium-grid-demo",
3    "version": "1.0.0",
4    "description": "Demo Selenium Grid con Chrome",
5    "scripts": {
6      "test": "node tests/reliable-chrome-test.js"
7    },
8    "dependencies": {
9      "selenium-webdriver": "^4.14.0"
10   }
11 }
12
```

6- Ejecuta y toma captura de la salida de consola y del Grid en el navegador (15 puntos)

```
chrome-1 | [events]
chrome-1 | publish = "tcp://selenium-hub:4442"
chrome-1 | subscribe = "tcp://selenium-hub:4443"
chrome-1 |
chrome-1 | [node]
chrome-1 | session-timeout = "300"
chrome-1 | override-max-sessions = false
chrome-1 | detect-drivers = false
chrome-1 | drain-after-session-count = 0
chrome-1 | max-sessions = 1
chrome-1 |
chrome-1 | [[node.driver-configuration]]
chrome-1 | display-name = "chrome"
chrome-1 | stereotype = {"browserName": "chrome", "browserVersion": "127.0", "platformName": "Linux", "goog:chromeOptions": {"binary": "/usr/bin/google-chrome"}, "se:containerName": ""}
chrome-1 | max-sessions = 1
chrome-1 |
chrome-1 | Starting Selenium Grid Node...
chrome-1 | 23:01:33.572 INFO [LoggingOptions.configureLogEncoding] - Using the system default encoding
chrome-1 | 2025-10-18 23:01:33.576 INFO success: xvfb entered RUNNING state, process has stayed up for > than 1 seconds (startsecs)
chrome-1 | 2025-10-18 23:01:33.576 INFO success: novnc entered RUNNING state, process has stayed up for > than 1 seconds (startsecs)
chrome-1 | 23:01:33.580 INFO [OpenTelemetryTracer.createTracer] - Using OpenTelemetry for tracing
chrome-1 | 23:01:33.748 INFO [UnboundZmqEventBus.<init>] - Connecting to tcp://selenium-hub:4442 and tcp://selenium-hub:4443
chrome-1 | 23:01:33.820 INFO [UnboundZmqEventBus.<init>] - Sockets created
chrome-1 | 23:01:34.171 INFO [UnboundZmqEventBus.<init>] - Event bus ready
chrome-1 | 23:01:34.823 INFO [UnboundZmqEventBus.<init>] - Event bus ready
chrome-1 | 23:01:35.038 INFO [NodeServer.createHandlers] - Reporting self as: http://172.18.0.3:5555
chrome-1 | 23:01:35.073 INFO [NodeOptions.getSessionFactories] - Detected 14 available processors
chrome-1 | 23:01:35.170 INFO [NodeOptions.report] - Adding chrome for {"browserName": "chrome", "browserVersion": "127.0", "goog:chromeOptions": {"binary": "/u002fusr\\u002fbin\\u002fgoogle-chrome"}, "platformName": "linux", "se:containerName": "", "se:noVncPort": 7980, "se:vncEnabled": true} 1 times
chrome-1 | 23:01:35.214 INFO [Node.<init>] - Binding additional locator mechanisms: relative
chrome-1 | 23:01:35.487 INFO [NodeServer$1.start] - Starting registration process for Node http://172.18.0.3:5555
chrome-1 | 23:01:35.490 INFO [NodeServer.execute] - Started Selenium node 4.23.0 (revision 77010cd): http://172.18.0.3:5555
chrome-1 | 23:01:35.511 INFO [NodeServer$1.lambda$start$1] - Sending registration event...
chrome-1 | 23:01:35.568 INFO [Node.<init>] - Binding additional locator mechanisms: relative
chrome-1 | 23:01:36.136 INFO [GridModel.setAvailability] - Switching Node b82468d5-9b27-4197-a443-9139e34424cc (uri: http://172.18.0.3:5555) from DOWN to UP
chrome-1 | 23:01:36.152 INFO [NodeServer.lambda$createHandlers$2] - Node has been added

selenium-hub | 23:01:36.137 INFO [LocalDistributor.add] - Added node b82468d5-9b27-4197-a443-9139e34424cc at http://172.18.0.3:5555. Health check every 120 s

View in Docker Desktop View Config Enable Watch
```

docker desktop PERSONAL Search Ctrl+K

Ask Gordon BETA

Containers

Images

Volumes

Kubernetes

Builds

Models

MCP Toolkit BETA

Docker Hub

Docker Scout

Extensions

Engine running RAM 3.04 GB CPU 0.36% Disk: 3.18 GB used (limit 1006.85 GB)

selenium-grid-demo C:\Repositorios\Diplomado\selenium-grid-demo View configurations

23:01:30.137 INFO [LOCALDISTRIBUTOR.add] - Added node b82468d5-9b27-4197-a443-9139e34424cc at http://172.18.0.3:5555 Health check every 120s

```
[[node.driver-configuration]]
display-name = "chrome"
stereotype = {"browserName": "chrome", "browserVersion": "127.0", "platformName": "linux", "goog:chromeOptions": {"binary": "/usr/bin/google-chrome"}, "se:containerName": ""}
max-sessions = 1

Starting Selenium Grid Node...
23:01:33.572 INFO [LoggingOptions.configureLogEncoding] - Using the system default encoding
2025-10-18 23:01:33.576 INFO success: xvfb entered RUNNING state, process has stayed up for > than 1 seconds (startsecs)
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23:01:35.170 INFO [NodeOptions.report] - Adding chrome for {"browserName": "chrome", "browserVersion": "127.0", "goog:chromeOptions": {"binary": "/u002fusr\\u002fbin\\u002fgoogle-chrome"}, "platformName": "linux", "se:containerName": "", "se:noVncPort": 7980, "se:vncEnabled": true} 1 times
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23:01:35.487 INFO [NodeServer$1.start] - Starting registration process for Node http://172.18.0.3:5555
23:01:35.490 INFO [NodeServer.execute] - Started Selenium node 4.23.0 (revision 77010cd): http://172.18.0.3:5555
23:01:35.511 INFO [NodeServer.lambda$start$1] - Sending registration event...
23:01:36.152 INFO [NodeServer.lambda$createHandlers$2] - Node has been added
```

Terminal New version available

```
Microsoft Windows [Versión 10.0.26100.4652]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\luis.chicas>cd c:\Repositorios\Diplomado\selenium-grid-demo

c:\Repositorios\Diplomado\selenium-grid-demo>npm test|
```

```
Microsoft Windows [Versión 10.0.26100.4652]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\luis.chicas>cd c:\Repositorios\Diplomado\selenium-grid-demo

c:\Repositorios\Diplomado\selenium-grid-demo>npm test

> selenium-grid-demo@1.0.0 test
> node tests/reliable-chrome-test.js

Login exitoso, URL actual: https://www.saucedemo.com/inventory.html

c:\Repositorios\Diplomado\selenium-grid-demo>|
```

