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Selenium Grid Setup

```
graph LR; Client[Client] <--> Hub[Selenium Hub]; Hub --> Node1[Node 1]; Hub --> Node2[Node 2]; Hub --> Node3[Node 3];
```

The diagram illustrates the Selenium Grid Setup. A **Client** (represented by a laptop icon) is connected to a **Selenium Hub** (represented by a server rack icon). The Selenium Hub is connected to three **Nodes** (represented by rounded rectangles). Each Node contains icons for three operating systems (Apple, Windows, and Linux) and three web browsers (Chrome, Firefox, and Edge).

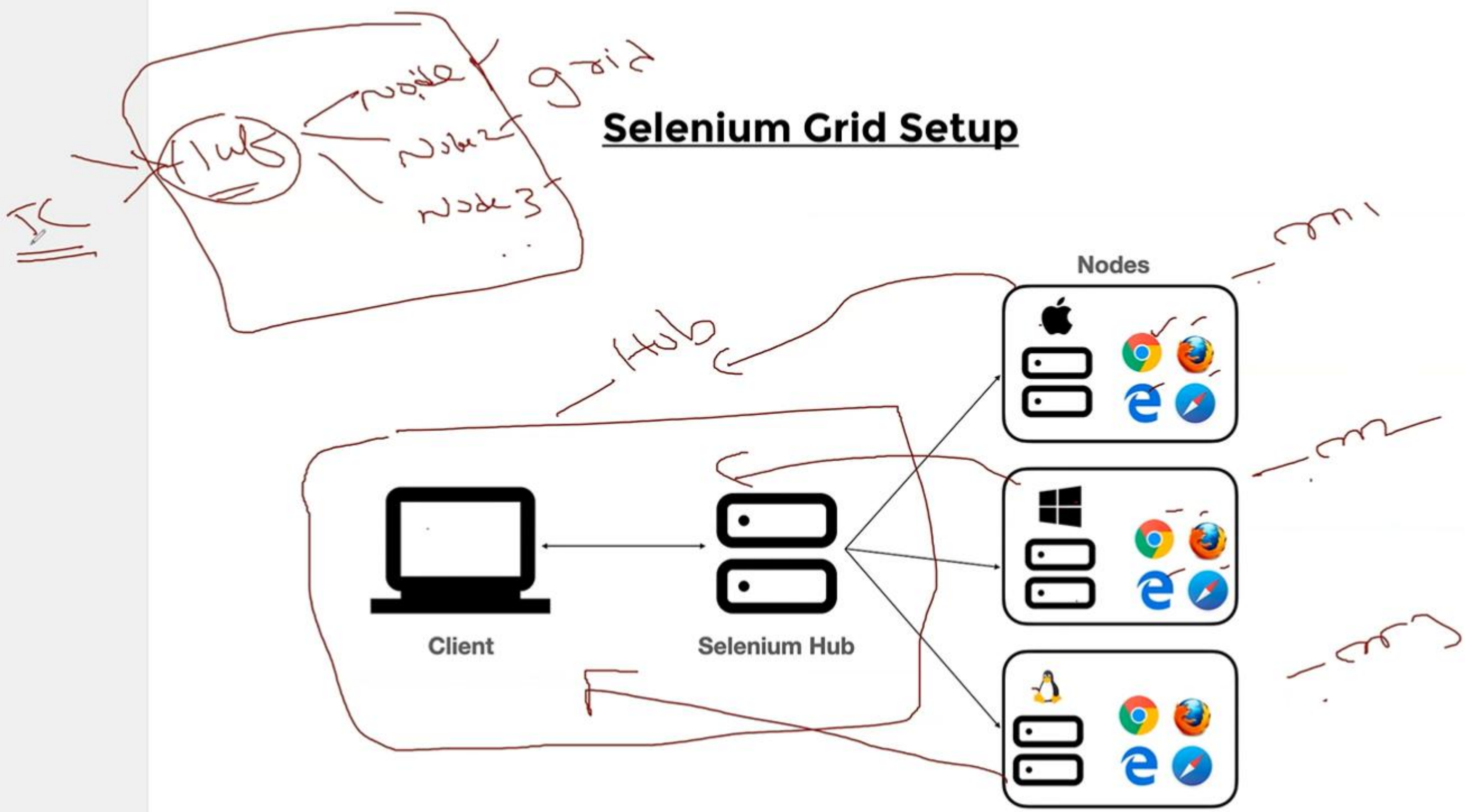
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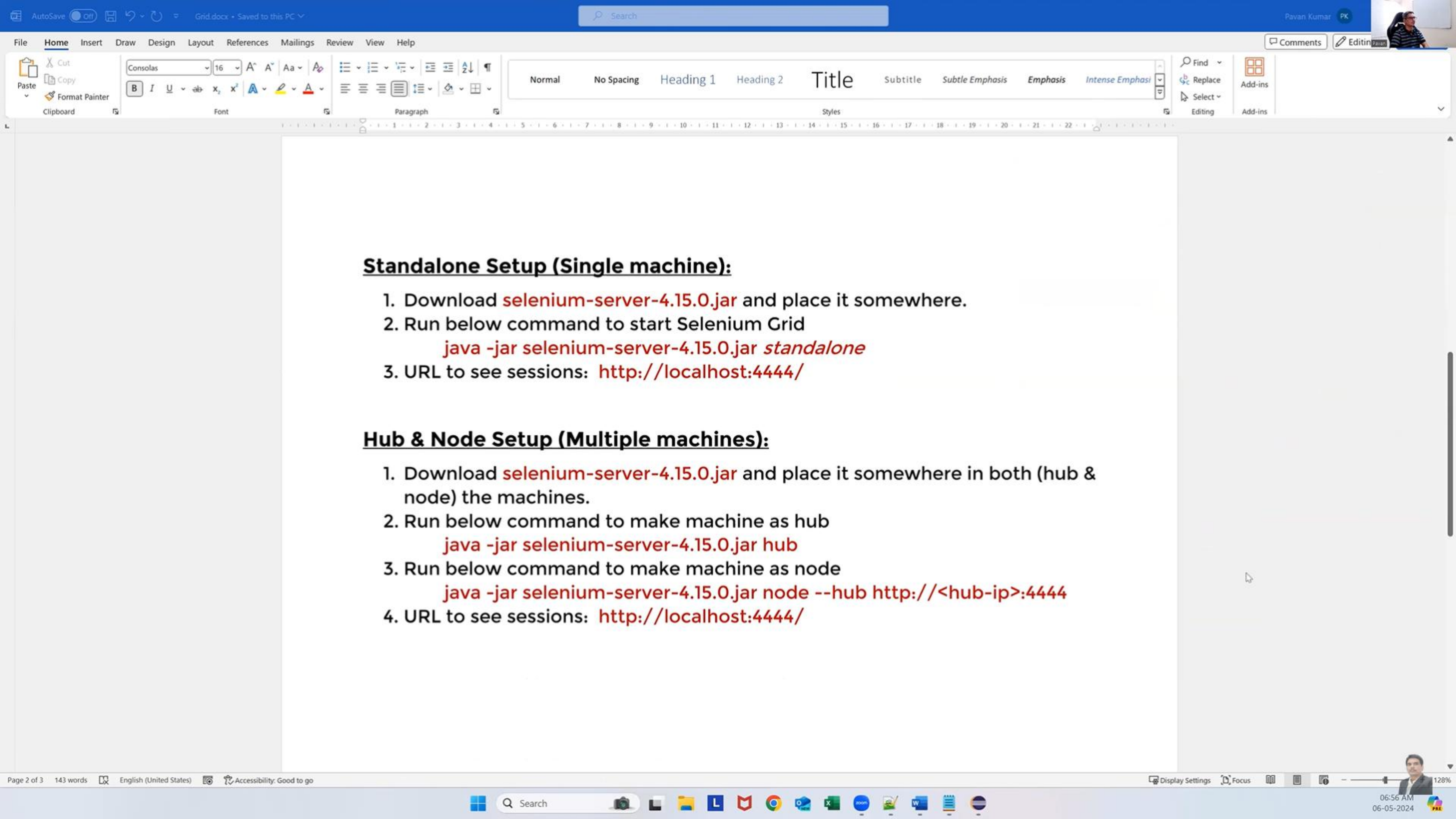
English (United States)

Accessibility: Good to go

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Standalone Setup (Single machine):

1. Download **selenium-server-4.15.0.jar** and place it somewhere.
2. Run below command to start Selenium Grid
java -jar selenium-server-4.15.0.jar standalone
3. URL to see sessions: **http://localhost:4444/**

Hub & Node Setup (Multiple machines):

1. Download **selenium-server-4.15.0.jar** and place it somewhere in both (hub & node) the machines.
2. Run below command to make machine as hub
java -jar selenium-server-4.15.0.jar hub
3. Run below command to make machine as node
java -jar selenium-server-4.15.0.jar node --hub http://<hub-ip>:4444
4. URL to see sessions: **http://localhost:4444/**


```
public class SeleniumGrid {

    public static void main(String args[]) throws MalformedURLException,
        InterruptedException
    {

        // The URL will be IP Address of Hub Machine + Hub Port + /wd/hub
        //http://192.168.13.1:4444/wd/hub or http://localhost:4444/wd/hub

        String huburl = "http://localhost:4444/wd/hub";

        DesiredCapabilities cap = new DesiredCapabilities();

        cap.setPlatform(Platform.WIN11); //cap.setPlatform(Platform.MAC);
        cap.setBrowserName("chrome"); //cap.setBrowserName("MicrosoftEdge")

        WebDriver driver = new RemoteWebDriver(new URL(huburl), cap);

        driver.get("https://www.google.com");
        System.out.println(driver.getTitle());
        driver.quit();
    }
}
```