**2. Setup Selenium Hub/Node GRID on local machine with two nodes, take screen shot of hub console.**

**REQUIREMENTS OVERVIEW:-**

* The objective is to provide step by step instruction to step a selenium standalone grid on a local machine
* The scope includes installation, configuration and verification of selenium grid components on a local machine.

**DETAILED REQUIREMENTS:-**

**1.System Requirements:**

Hardware: At least 4 GB of RAM, 2 GHz processor, 10 GB free disk space.

Software:

JDK (Java Development Kit) 8 or higher

Latest version of Selenium Server Standalone JAR

Web browsers (Chrome, Firefox,edge)

WebDriver binaries (chromedriver, geckodriver,msedgedriver)

**2.Installation Steps:**

Install JDK:

Download and install JDK from the official Oracle website.

Set JAVA\_HOME and update PATH environment variable.

Download Selenium Server Standalone:

Download the latest Selenium Server Standalone JAR file from the Selenium website.

**3.Start the Hub:**

Open a terminal or command prompt.

Navigate to the directory where the Selenium Server JAR file is located.

Run the command: java -jar selenium-server-standalone-4.21.0.jar hub

4.**Configure Nodes:**

* Download WebDriver binaries and place them in a specific directory.

Start nodes using this commands:-

First node will take default port is 5555

java -jar selenium-server-4.21.0.jar node

java -jar selenium-server-4.21.0.jar node --port 7777

**4.Verification:**

Open a web browser and navigate to <http://localhost:4444/grid/console> or http://172.19.16.1:4444/ui/

Ensure the hub console displays the registered nodes.

**LIST OF USECASES:-**

* UC-01: Install Java Development Kit (JDK)
* UC-02: Download Selenium Server Standalone JAR
* UC-03: Start Selenium Hub
* UC-04: Configure and Start Node 1
* UC-05: Configure and Start Node 2
* UC-06: Verify Hub Configuration with Nodes

Screenshot:-