1. Need to add a Custom created (**selenium\_grid\_node\_driver\_setup-1.0.jar**) JAR to node machines and update the StartNode.bat file to run the custom JAR  
   Start Node.bat file has following code  
     **“java -jar selenium\_grid\_node\_driver\_setup-1.0.jar -role node -hub http://10.161.127.177:4444/grid/register/ -nodeConfig NodeConfig.json”**
2. Previously we used the **selenium-server-standalone-3.141.59.jar** and passed the chromedriver path

**“java -Dwebdriver.chrome.driver="C:\selenium\chromedriver.exe" -jar C:\selenium\selenium-server-standalone-3.141.59.jar -role node -hub http://10.161.128.148:4444/wd/hub -nodeConfig NodeConfig.json”**

1. What is difference?
   1. After adding custom JAR and updating bat file, no need to mention the driver executable.
   2. The custom jar itself fine the latest driver file and download to the local repository based on the browser version available in system.
2. What the custom jar does?

The custom jar contains to lines of code   
1. Webdriver Manager setup -from Webdriver Manager dependency  
2. Grid Node launcher -from selenium server dependency

1. What is Webdriver Manager setup?
   1. It helps to download the latest driver executable based on the browser version available in system. It downloads to the folder “~\m2\repository\webdriver”
   2. Currently only the chrome driver set up is used so it downloads the chrome driver. In future we can add IE, Firefox if required.
   3. After download the executable path will be specified on properties
2. What the Grid Launcher does?

After the driver executables are set up, then start the node, here node is started in with the arguments passed above like (role, hubURL, NodeCOnfig.json)

After this update, there is no need to maintain the driver executables in remote.

**Note:**

We can extend the Webdriver Manager dependency for the local runs too. This requires few lines of code modification in each project. While doing the code modifications we can modify the remote block and remove this JAR and use the older startNode configuration