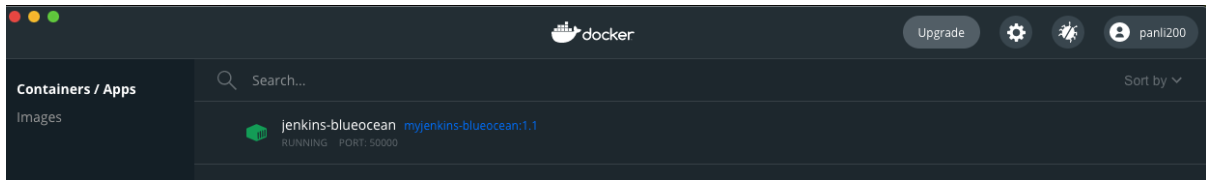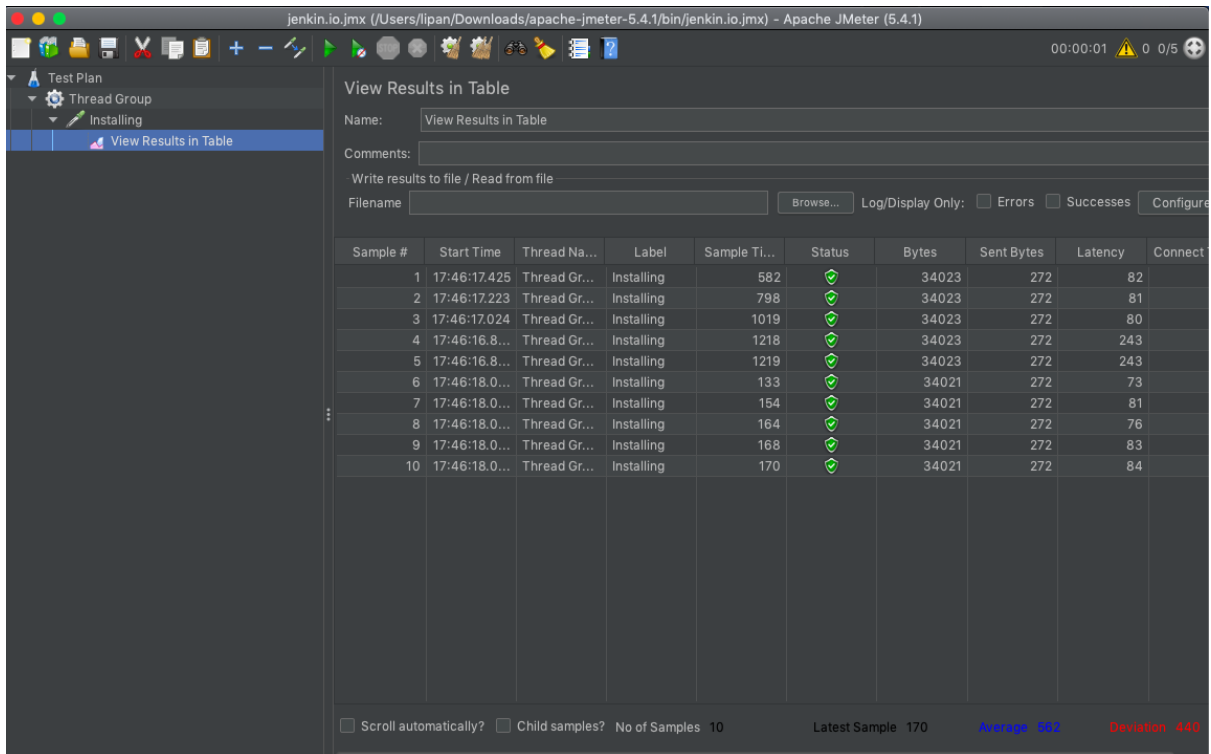# Jmeter and Selenium Testing
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The Jenkins is installed on Docker on my local computer success.
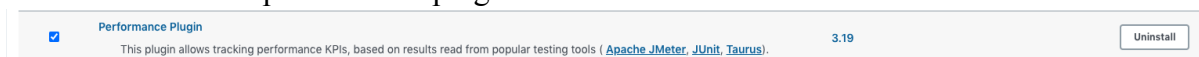

Jmeter Testing

1. Installing Apache Jmeter on my local Mac computer.
2. Modifying the *user.properties* file under Jmeter folder. Adding the command at the last line of file:
   jmeter.save.saveservice.output_format=xml
3. Adding a new Test plan. Saved the *.jmx* file

4. Installed the performance plugin on Jenkins.

5. Create a new item on Jenkins. I selected a freestyle project.

6. Add the Build with execute shell. The steps vary on different computers. If the user is using Mac this step requires adding an execute shell. If the user is using Windows, it requires adding execute Windows batch command.

7. Adding Post-build Action.

8. Run the Project.

The expected output is success. The project should have a performance report created.

However, the console output is:


```
Started by user LiPan
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/JmeterJenkins
[JmeterJenkins] $ /bin/sh -xe /tmp/jenkins7938845051615247569.sh
+ cd /Users/lipan/Downloads/Jmeter/bin/
/tmp/jenkins7938845051615247569.sh: 2: cd: can't cd to /Users/lipan/Downloads/Jmeter/bin/
Build step 'Execute shell' marked build as failure
Creating parser with percentiles:'0,50,90,100,' filterRegex:
Cannot detect file type because of error: Failed to copy /Users/lipan/Downloads/jmeter/jenkins.io.report.jtl to
/var/jenkins_home/jobs/JmeterJenkins/builds/5/temp/jenkins.io.report.jtl
Finished: FAILURE
```

Apparently Jenkins cannot change the workspace path following my added command.

My Assumption is my Jenkins is installed on Docker, however, the Jmeter is installed on my computer directly. The testing is failed, I cannot figure out the right path for testing Jmeter.
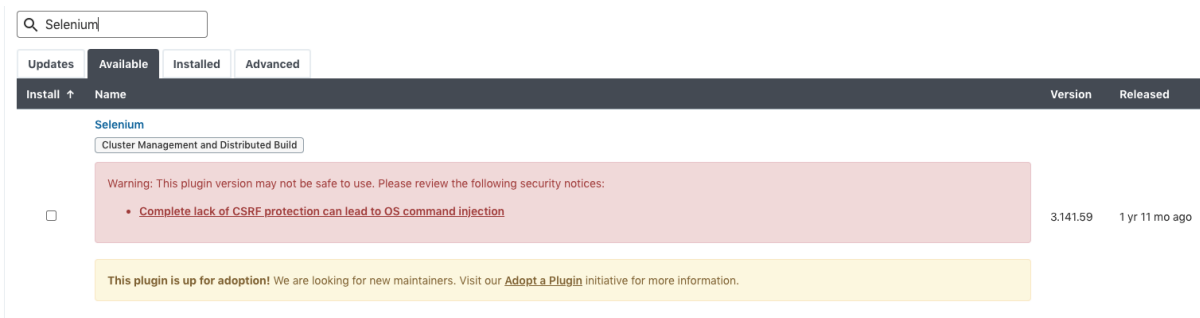
<u>Selenium Testing</u>

In this test, we are trying to integrate Jenkin with Selenium. Our group is testing Selenium by using the git repository.

Our .pom file added dependency of Selenium:

```
<dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>3.141.0</version>
</dependency>
```

Find the Selenium plugin on my Jenkins:

However, the plugin install failed.

My testing steps cannot continue. Thus, Selenium testing failed on my computer.