SE 421: Atlas Configuration Guide

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Sharwan Ram

Atlas is a platform to build program analysis tools using an attributed graph database. For the upcoming assignments we will be using Atlas. This document will walk you through to configure Atlas.

1 Install Java

Atlas is built on top of Eclipse. In order to run Eclipse, you must install Java. For this course make sure you are using *Java 11*. If you don't have Java installed, install OpenJDK 11 [1].

Note: Atlas has been tested to work up to Java 11. We don't recommend using Java 7 and older as they do not work well with newer versions of Eclipse. Java 12 and newer are known to cause problems on Windows machines. While we have not received reports of Java version problems on Linux/Mac we cannot guarantee a smooth installation for versions other than Java 11.

2 Download Bundle

We have bundle for Mac OS [2] , Linux OS [3] and Windows OS [4], please download appropriate bundle according to your operating system. If you face any difficulty in opening the link in other browsers please use Chrome. Once you downloaded, the bundle, extract it.

If you are using Mac OS, please open the terminal and run the following command:

```
sudo xattr -rd com.apple.quarantine < path to the extracted files >
```

For example, let say we downloaded the bundle in the Downloads folder and we extracted it there. Now run the following command:

```
sudo xattr -rd com.apple.quarantine ~/Downloads/EnSoft-Atlas-macos+SDK-4.2.2/Eclipse.app/
```

Note: For Linux OS and Windows OS, you do not need to run the above commands.

3 Acquire Atlas License

In order to use Atlas, you will need a license. The academic license for Atlas is freely available. Following steps describe the process to acquire the academic license

1. Go to `http://www.ensoftcorp.com/atlas/academic-license/`

2. Fill the form with your academic email id. Please choose "Other" for where you heard of Atlas and mention "KCSL Website" in the dialogue box. Enter your school information as directed.

3. Submit the form for a complimentary academic license.

4. You should receive your license key via email in a short while. It generally takes at least one business day for the license to arrive.

Refer to figure 1, if you face any difficulty.

Figure 1: Acquiring Academic License

4   Configure Atlas

Once you receive your academic license, do the following:

Enter your license key in Atlas Preferences. Atlas Preferences Menu is accessed via $Eclipse \rightarrow Preferences \rightarrow Atlas \rightarrow License$. For Linux/Windows users the preferences are located under $Window \rightarrow Preferences \rightarrow Atlas \rightarrow License$. Refer to figure 2 for additional help. Make sure your system username is correctly detected by Eclipse and your email is the same as used to acquire the Atlas license. Your Atlas configuration is complete and ready to use.
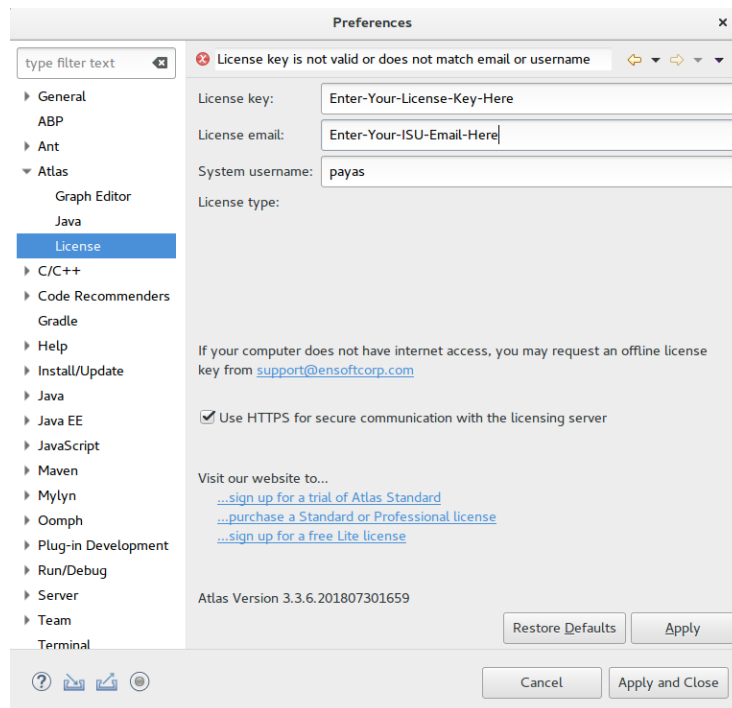
Figure 2: Enter your license key

References

[1] JDK 11 : `https://adoptopenjdk.net/`

[2] Bundle for Mac OS : `https://drive.google.com/u/0/uc?id=1tp1mGjdNT1FuyC5RccGtVMd8GFdcZkAP&export=download`

[3] Bundle for Linux OS : `https://drive.google.com/u/0/uc?id=1to9EqtsxoIwZQp1wl773_ao_C6bJ3pDC&export=download`

[4] Bundle for Windows OS : `https://drive.google.com/u/0/uc?id=1tpQ6WOtHgXPxOtT_k4CajvIIy6p3EILP&export=download`