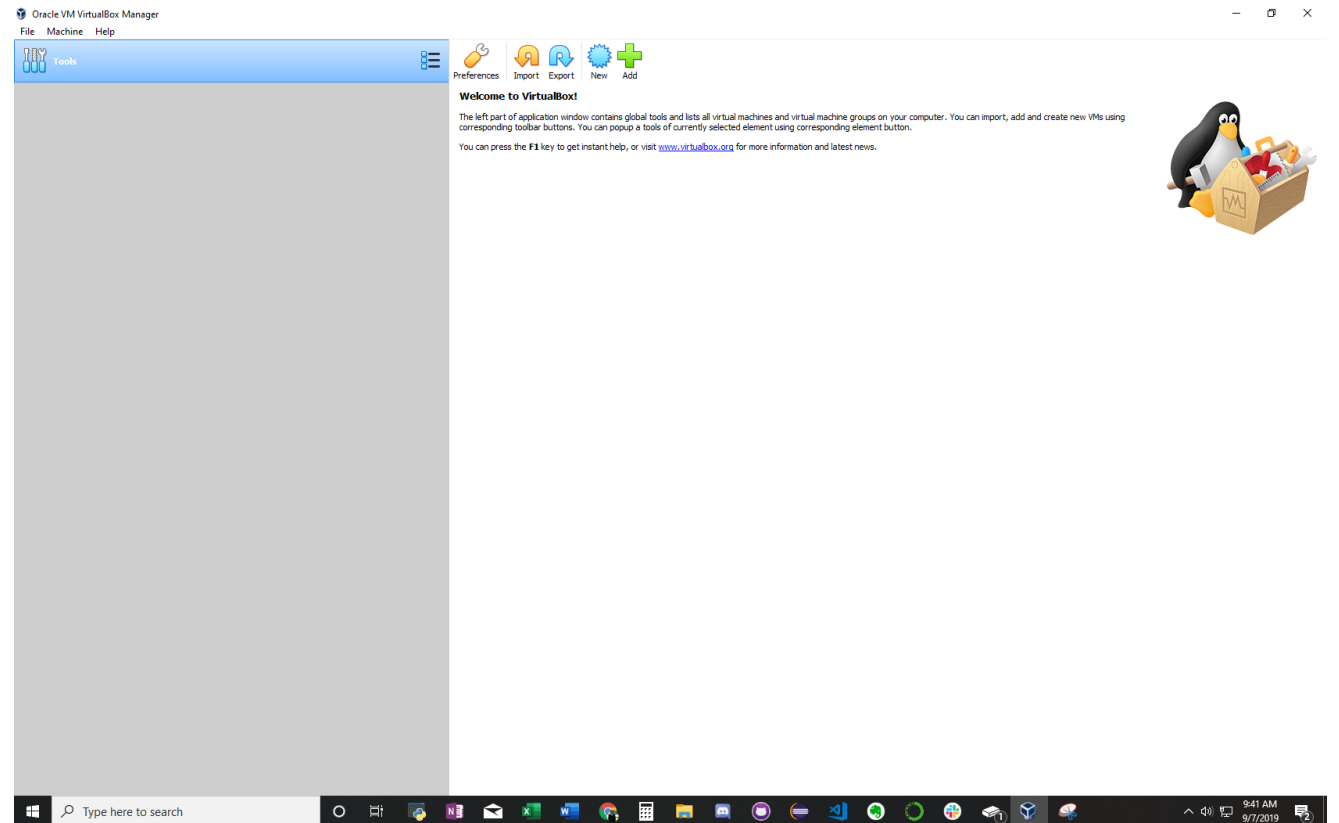


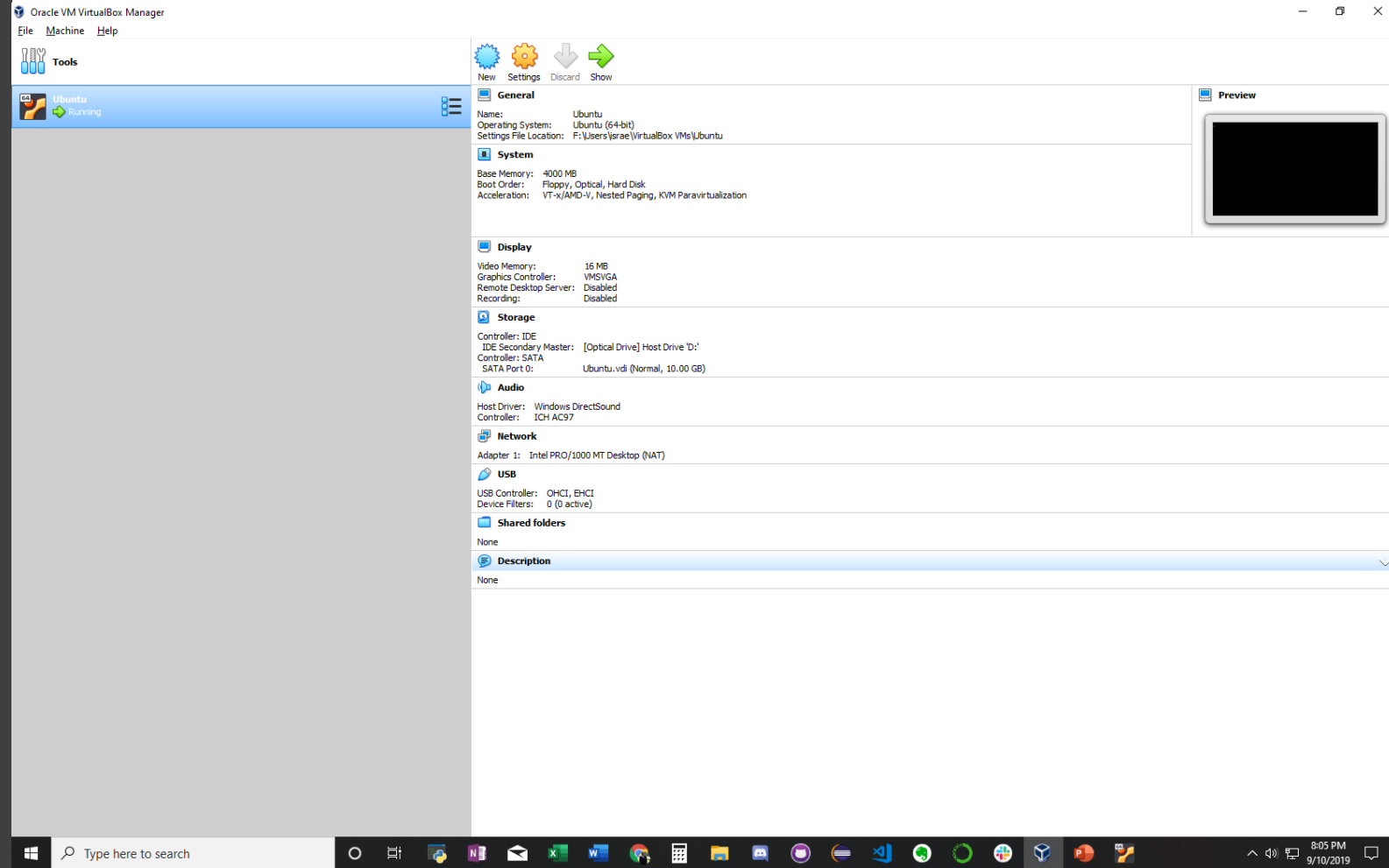
# Assignment 2

Israel Nolzco

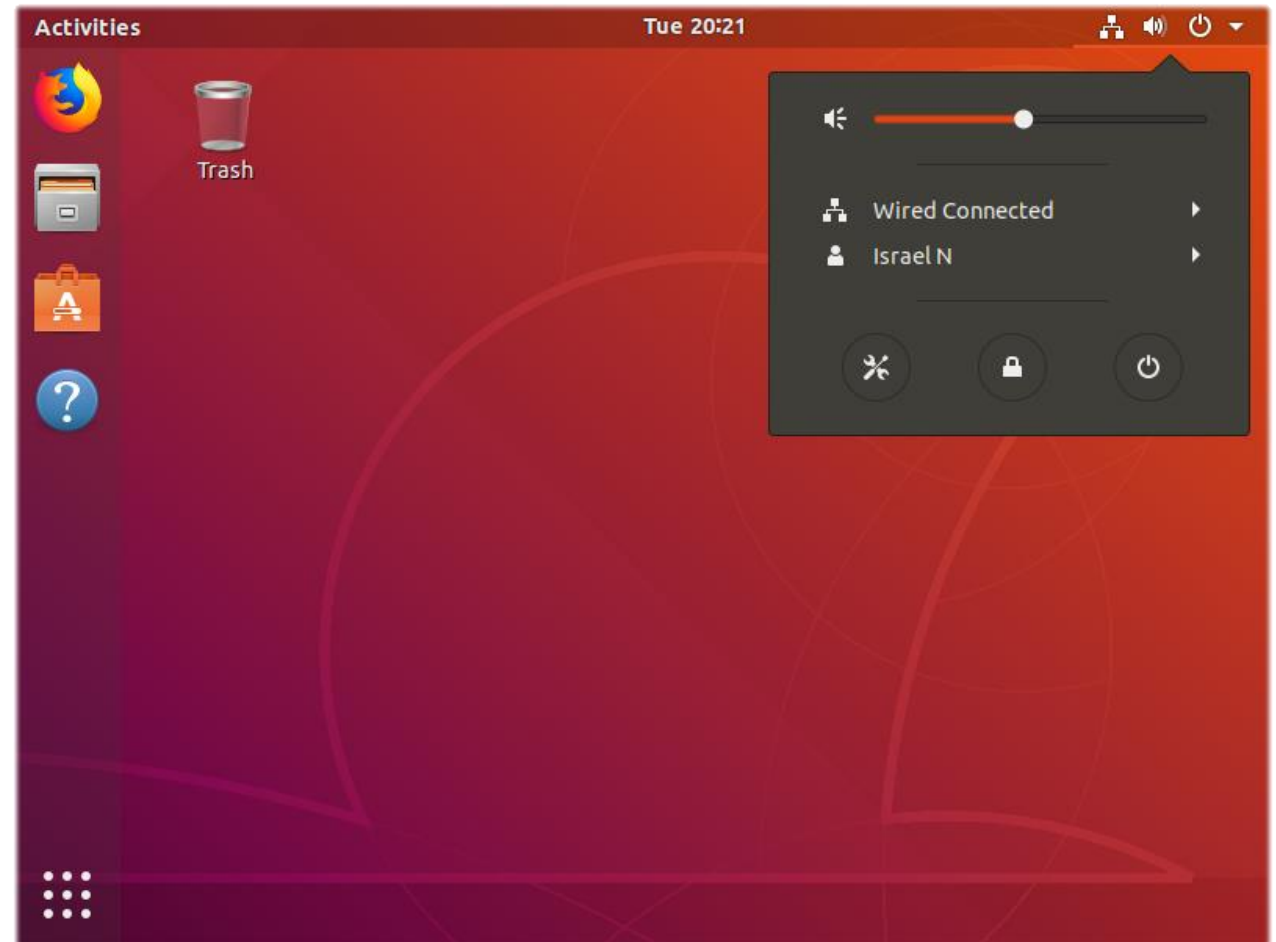
- Downloaded VM Virtual Box
  - Version: VirtualBox-6.0.12-133076-Win



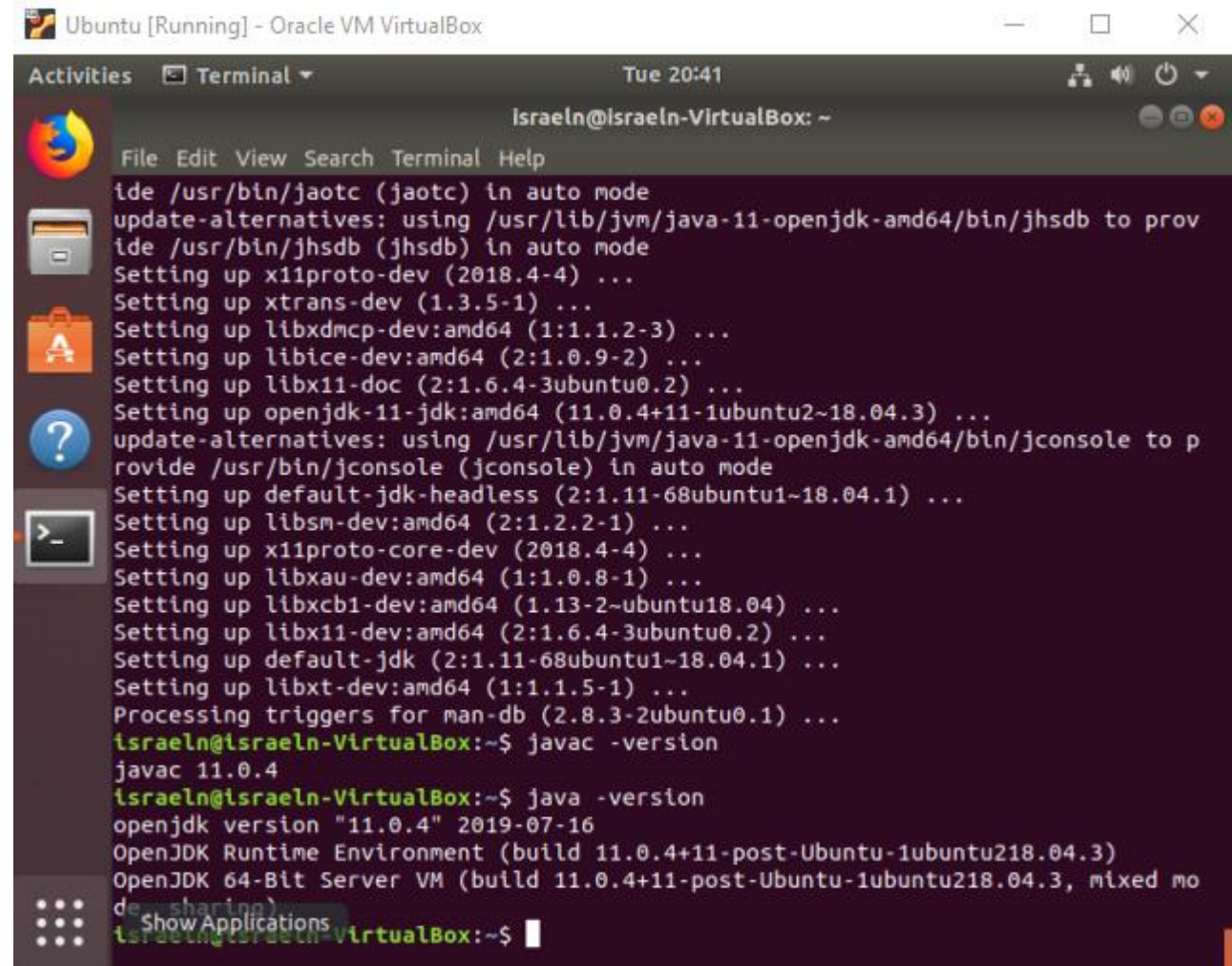
- Set up Ubuntu with the following specs:
- 4GB memory
- VDI
- Dynamically allocated
- Additionally downloaded Ubuntu ISO:
  - Ubuntu 18.04.3 LTS



- Installed Ubuntu ISO:
  - Ubuntu 18.04.3 LTS
- Choose Israel N as username
- Region as Chicago
- Once installed, updated ubuntu version



- Running Javac 11.0.4
- Running JDK version 11.0.4



```
Ubuntu [Running] - Oracle VM VirtualBox
Tue 20:41
Israeln@Israeln-VirtualBox: ~
File Edit View Search Terminal Help
ide /usr/bin/jaotc (jaotc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jhsdb to prov
ide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up x11proto-dev (2018.4-4) ...
Setting up xtrans-dev (1.3.5-1) ...
Setting up libxdmcp-dev:amd64 (1:1.1.2-3) ...
Setting up libice-dev:amd64 (2:1.0.9-2) ...
Setting up libx11-doc (2:1.6.4-3ubuntu0.2) ...
Setting up openjdk-11-jdk:amd64 (11.0.4+11-1ubuntu2~18.04.3) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jconsole to p
rovide /usr/bin/jconsole (jconsole) in auto mode
Setting up default-jdk-headless (2:1.11-68ubuntu1~18.04.1) ...
Setting up libsm-dev:amd64 (2:1.2.2-1) ...
Setting up x11proto-core-dev (2018.4-4) ...
Setting up libxau-dev:amd64 (1:1.0.8-1) ...
Setting up libxcb1-dev:amd64 (1.13-2~ubuntu18.04) ...
Setting up libx11-dev:amd64 (2:1.6.4-3ubuntu0.2) ...
Setting up default-jdk (2:1.11-68ubuntu1~18.04.1) ...
Setting up libxt-dev:amd64 (1:1.1.5-1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Israeln@Israeln-VirtualBox:~$ javac -version
javac 11.0.4
Israeln@Israeln-VirtualBox:~$ java -version
openjdk version "11.0.4" 2019-07-16
OpenJDK Runtime Environment (build 11.0.4+11-post-Ubuntu-1ubuntu218.04.3)
OpenJDK 64-Bit Server VM (build 11.0.4+11-post-Ubuntu-1ubuntu218.04.3, mixed mo
de, sharing)
Israeln@Israeln-VirtualBox:~$
```

- Realize, I would need Java 8 in order to properly run Hadoop. This can be supported from the following:
- <https://cwiki.apache.org/confluence/display/HADOOP/Hadoop+Java+Versions>
- Document states for version 2 and above Java 8 is required

```

israeln@israeln-VirtualBox: ~
israeln@israeln-VirtualBox:~$ echo $JAVA_HOME
_HOME
israeln@israeln-VirtualBox:~$ JAVA -VERSION
JAVA: command not found
israeln@israeln-VirtualBox:~$ java -version
java: error while loading shared libraries: libjli.so: cannot open shared object file: No such file or directory
israeln@israeln-VirtualBox:~$ rm /usr/bin/java
rm: cannot remove '/usr/bin/java': Permission denied
israeln@israeln-VirtualBox:~$ echo $JAVA_HOME/bin/_HOME/bin/
israeln@israeln-VirtualBox:~$ java -version
java: error while loading shared libraries: libjli.so: cannot open shared object file: No such file or directory
israeln@israeln-VirtualBox:~$ sudo update-alternatives --config java
[sudo] password for israeln:
There are 3 choices for the alternative java (providing /usr/bin/java).

   Selection    Path                                            Priority  Status
-----
0             /usr/lib/jvm/java-11-openjdk-amd64/bin/java    1111     auto mode
1             /usr/lib/jvm/java-11-openjdk-amd64/bin/java    1111     manual mode
2             /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java 1081     manual mode
* 3             /usr/lib/jvm/jdk1.8.0_181/bin/java              1        manual mode
  
```

- Attempted to follow the following guides
- <https://blog.usejournal.com/hadoop-3-0-installation-on-ubuntu-18-04-step-by-step-pseudo-distributed-mode-2808f6b8e71f>
- <https://gist.github.com/starling/9ee5209ceb32b7e05817e714fe530be3>
  - Most easy to follow. However, I keep getting errors while trying to change the paths (see following image)
  - Attempted to follow some suggestions from the link below (1), but now I am not even able to use the “ls” command.
  - (1) <https://askubuntu.com/questions/866161/setting-path-variable-in-etc-environment-vs-profile>
- [https://hadoop.apache.org/docs/r3.1.2/hadoop-project-dist/hadoop-common/SingleCluster.html#Prepare\\_to\\_Start\\_the\\_Hadoop\\_Cluster](https://hadoop.apache.org/docs/r3.1.2/hadoop-project-dist/hadoop-common/SingleCluster.html#Prepare_to_Start_the_Hadoop_Cluster)

Ubuntu [Running] - Oracle VM VirtualBox

Activities Terminal Tue 23:29

israeln@israeln-VirtualBox: ~

```
File Edit View Search Terminal Help
israeln@israeln-VirtualBox:~$ echo $JAVA_HOME
_HOME
israeln@israeln-VirtualBox:~$ JAVA -VERSION
JAVA: command not found
israeln@israeln-VirtualBox:~$ java -version
java: error while loading shared libraries: libjli.so: cannot open shared object file: No such file or directory
israeln@israeln-VirtualBox:~$ rm /usr/bin/java
rm: cannot remove '/usr/bin/java': Permission denied
israeln@israeln-VirtualBox:~$ echo $JAVA_HOME/bin/_HOME/bin/
israeln@israeln-VirtualBox:~$ java -version
java: error while loading shared libraries: libjli.so: cannot open shared object file: No such file or directory
israeln@israeln-VirtualBox:~$ sudo update-alternatives --config java
[sudo] password for israeln:
There are 3 choices for the alternative java (providing /usr/bin/java).
```

Selection	Path	Priority	Status
0	/usr/lib/jvm/java-11-openjdk-amd64/bin/java	1111	auto
1	/usr/lib/jvm/java-11-openjdk-amd64/bin/java	1111	manual
2	/usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java	1081	manual
3	/usr/lib/jvm/jdk1.8.0_181/bin/java	1	manual



- Attempted to follow the following guides
- <https://blog.usejournal.com/hadoop-3-0-installation-on-ubuntu-18-04-step-by-step-pseudo-distributed-mode-2808f6b8e71f>
- <https://gist.github.com/starling/9ee5209ceb32b7e05817e714fe530be3>
  - Most easy to follow. However, I keep getting errors while trying to change the paths (see following image)
  - Attempted to follow some suggestions from the link below (1), but now I am not even able to use the “ls” command.
  - (1) <https://askubuntu.com/questions/866161/setting-path-variable-in-etc-environment-vs-profile>
- [https://hadoop.apache.org/docs/r3.1.2/hadoop-project-dist/hadoop-common/SingleCluster.html#Prepare\\_to\\_Start\\_the\\_Hadoop\\_Cluster](https://hadoop.apache.org/docs/r3.1.2/hadoop-project-dist/hadoop-common/SingleCluster.html#Prepare_to_Start_the_Hadoop_Cluster)

```

israeln@israeln-VirtualBox: ~
File Edit View Search Terminal Help
> PATH="PATH:/usr/addtional/path\"
israeln@israeln-VirtualBox:~$ PATH="PATH:/usr/addtional/path\"
israeln@israeln-VirtualBox:~$ sudo gedit etc/enviroment
Command 'sudo' is available in '/usr/bin/sudo'
The command could not be located because '/usr/bin' is not included in the PATH
environment variable.
sudo: command not found
israeln@israeln-VirtualBox:~$ SU
SU: command not found
israeln@israeln-VirtualBox:~$ SUDO
SUDO: command not found
israeln@israeln-VirtualBox:~$ ls
Command 'ls' is available in '/bin/ls'
The command could not be located because '/bin' is not included in the PATH env
ironment variable.
ls: command not found
israeln@israeln-VirtualBox:~$ ls
Command 'ls' is available in '/bin/ls'
The command could not be located because '/bin' is not included in the PATH env
ironment variable.
ls: command not found
israeln@israeln-VirtualBox:~$ cd
israeln@israeln-VirtualBox:~$ ls
Command 'ls' is available in '/bin/ls'
The command could not be located because '/bin' is not included in the PATH env
ironment variable.
ls: command not found
israeln@israeln-VirtualBox:~$

```



- Attempted to fix libjli.so error, but could not find a successful resource.
- <https://github.com/processing/processing/issues/5111>
- <https://www.centos.org/forums/viewtopic.php?t=16398>
- [https://bugzilla.redhat.com/show\\_bug.cgi?id=1388533](https://bugzilla.redhat.com/show_bug.cgi?id=1388533)
- Last option would be to reinstall delete my virtual box and restart the process again.
- Other options is to try VMware.

```

israeln@israeln-VirtualBox:~$ echo $JAVA_HOME
_HOME
israeln@israeln-VirtualBox:~$ JAVA -VERSION
JAVA: command not found
israeln@israeln-VirtualBox:~$ java -version
java: error while loading shared libraries: libjli.so: cannot open shared object file: No such file or directory
israeln@israeln-VirtualBox:~$ rm /usr/bin/java
rm: cannot remove '/usr/bin/java': Permission denied
israeln@israeln-VirtualBox:~$ echo $JAVA_HOME/bin/
_HOME/bin/
israeln@israeln-VirtualBox:~$ java -version
java: error while loading shared libraries: libjli.so: cannot open shared object file: No such file or directory
israeln@israeln-VirtualBox:~$ sudo update-alternatives --config java
[sudo] password for israeln:
There are 3 choices for the alternative java (providing /usr/bin/java).

   Selection    Path                                            Priority  Status
-----
0             /usr/lib/jvm/java-11-openjdk-amd64/bin/java    1111     auto mode
1             /usr/lib/jvm/java-11-openjdk-amd64/bin/java    1111     manual mode
2             /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java 1081     manual mode
* 3             /usr/lib/jvm/jdk1.8.0_181/bin/java              1        manual mode

```

- To make matter worse, the installation crashed on me.

