

JAVA_HOME is not defined correctly on Ubuntu?

Asked 7 years, 4 months ago Modified 1 month ago Viewed 81k times



I am trying to install some software (Shibboleth) in Ubuntu 14.04. I already have Java 7 OpenJDK installed in `/usr/lib/jvm/`, and I have these lines in `/usr/environment`

22



```
JAVA_HOME="/usr/lib/jvm/java-7-openjdk-amd64"
export JAVA_HOME
```



If I type `echo $JAVA_HOME` I correctly get `/usr/lib/jvm/java-7-openjdk-amd64`. However, when I try to install Shibboleth I always get `Error: JAVA_HOME is not defined correctly. Cannot execute java`.

Interestingly, if I type `java` command it works (it refers to `/usr/lib/java` which is a link to the right one). However, when I try to run `bash bin/install.sh` of Shibboleth, I get the `JAVA_HOME` error

I already tried setting `JAVA_HOME` to the `jre` folder with same result. Any ideas?

[java](#) [ubuntu](#) [java-home](#)

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edited Jul 2, 2019 at 17:42

asked Jan 23, 2016 at 17:40



[jww](#)

96.8k

90

409

878

[user411103](#)

First install necessary packages `apt-get install openjdk-7-jre-headless apt-get install tomcat7` and see. – [Madura Harshana](#) Jan 23, 2016 at 17:59

I already have both of them installed – [user411103](#) Jan 23, 2016 at 18:11

8 Answers

Sorted by:

Highest score (default)



Add both `JAVA_HOME` & `PATH` to your `~/.profile`

36

```
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
export PATH=$JAVA_HOME/bin:$PATH
```



And, add following to your `/etc/profile.d/java.sh`



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```
JRE_HOME=/usr/lib/jvm/jre
export JRE_HOME
JAVA_OPTS="-XX:+AggressiveOpts -Xms256m -Xmx512m -XX:MaxPermSize=256m -
XX:+DisableExplicitGC"
export JAVA_OPTS
```

For more info, Refer [Documentation](#)

Hope it helps.

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edited Jan 23, 2016 at 18:50

answered Jan 23, 2016 at 17:56

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Let's Refactor

3,273 4 27 43

1 I tried this but same error. Interestingly, if I type "java" command it works. However, when I try to run "bash bin/install.sh" of Shibboleth, I get the JAVA_HOME error. – user411103 Jan 23, 2016 at 18:05

1 Updated my answer, hope it helps now – Let's Refactor Jan 23, 2016 at 18:15

Still same error. Is it OK that all these variables are defined without quotes? I didn't even had a .bash_profile or /etc/profile.d/java.sh files – user411103 Jan 23, 2016 at 18:46

Ubuntu use ~/.profile instead of ~/.bash_profile , updated my answer – Let's Refactor Jan 23, 2016 at 18:50

/etc/profile.d/java.sh you need to create one, use cat. – Let's Refactor Jan 23, 2016 at 18:54



from Ubuntu terminal execute:

6

```
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64/
```



to test maven run:



```
mvn --version
```



it will give output:

```
Maven home: /usr/share/maven
Java version: 1.7.x.xxx, vendor: Oracle Corporation, runtime: /usr/lib/jvm/java-7-
openjdk-amd64/jre
Default locale: en_US, platform encoding: UTF-8
OS name: "linux", version: "4.15.0-47-generic", arch: "amd64", family: "unix"
```

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answered May 31, 2019 at 10:06



Sai prateek

11.8k 9 49 66

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5

```
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
```



I did



```
EXPORT JAVA_HOME='/usr/lib/jvm/java-1.7.0-openjdk-amd64'
```

Works.

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edited Mar 8, 2019 at 21:08



dbc

103k

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221

332

answered Mar 8, 2019 at 21:03



Sandeepraj Singh

99

1

3



According to Your editor.

4

```
sudo vim /etc/profile
```



add these 2 lines at the end of the file



```
export JAVA_HOME="/usr/lib/jvm/java-8-oracle"  
export PATH=JAVA_HOME/bin:$PATH
```

Then

```
source /etc/profile
```

Check

```
mvn -version
```

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edited Oct 5, 2018 at 7:48



dkb

4,304

4

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answered Oct 5, 2018 at 7:15

Shubham
Shubh

91

3



you should set the path to bin folder where java, javac files are found. In your case it might be /usr/lib/jvm/java-7-openjdk-amd64/bin

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answered Jan 23, 2016 at 17:48



Bharath Teja

101

1



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Already tried, same result. Please, note that I can run the command "java" properly. The error is displayed when I try to run bin/install.sh on Shibboleth. – user411103 Jan 23, 2016 at 18:12



0



I issue is that the install.sh script which you are running has the java path wrong.

Edit the file using nano

```
sudo nano idp-install.sh
```



or vim editor



```
vim idp-install.sh
```

and change the line which corresponds to java path and add the correct java path. This will solve your problem.

P.S. This solution is specific to the java path for Shibboleth installation.

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edited Feb 21, 2019 at 14:05

answered Nov 20, 2018 at 13:41

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Mashmoom

457 4 10



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For future comers, please note this problem usually happens because `java` is not properly set in your environment. Take the following steps to fix the problem

first, check where your `JDK` is using the following command `cd /usr/lib/jvm/{jdk-version}`
Now that you have the full path where your `JDK` is, copy the whole path like so, in my case I have `jdk1.8.0_261`



So you copy `/usr/lib/jvm/jdk1.8.0_261` path, open `/etc/environment` and set the JDK path properly as follows

```
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/bin:/usr/local/sbin"
JAVA_HOME="/usr/lib/jvm/jdk1.8.0_261"
M2_HOME="/opt/apache-maven-3.6.3"
```

Note that I have added the `/usr/lib/jvm/jdk1.8.0_261` to the `PATH` variable and also to the `JAVA_HOME` variable,

This should resolve the error `Error: JAVA_HOME is not defined correctly. Cannot execute java` since the `JDK` is now properly set in the `PATH` and in the `JAVA_HOME`, then for the Shibboleth

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```
SHIBBOLETH_HOME="/opt/shibboleth-{version}"
```

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answered Sep 28, 2020 at 7:54



[Jose Mhlanga](#)

785 10 14



export JAVA_HOME='/usr/lib/jvm/java-11-openjdk-amd64'

0

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answered May 2 at 5:22



[Asanka Sampath](#)

545 4 12

