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# Introduction

This document captures the installation steps for installing Python2.7 and Java JRE on your host / development machine. Both Linux and Windows environment are supported.

# Use pre-installed DBTool ( Linux)

The complete DBTool environment is pre-installed in a Linux machine. The user can launch and use the DBTool through VNC.

## VNC – pre-installed

If you want to use the pre-installed DBTool on Linux environment, please use the following VNC instance:

Username/password: dbtool :: dbtool123

VNC: 10.64.60.205:2 (vnc password: dbtool)

The necessary installations have been performed there.

In case you do not find the VNC session at the above mentioned port number active, please create one yourself with the command “vncserver”.

(Important: You need a GUI environment like VNC or NX client. Simple Putty sessions will not work!)

Fire:

#cd /home/dbtool/DBTool/src

# ./dbTool.sh

## Take a new VNC instance

If you wish to create a separate instance, you can take a full copy of DBTool directory, fire a separate vnc session and use it on IP: 10.64.60.205

(Important: You need a GUI environment like VNC or NX client. Simply Putty sessions will not work!)

#cd /home/dbtool/DBTool/src

# ./dbTool.sh

# Self-installation on Linux

The steps below capture the details of installing the DB Tool and the complete environment. This involves multiple installations, like, Python2.7 and the required dependant libraries on a Linux host machine.

## Install Python on Linux

Download and Install Python: <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\linux_installers\python)> (Alternate Web URL: [Link](https://www.python.org/ftp/python/2.7.8/Python-2.7.8.tgz))

Quick refresher steps:

./configure --prefix=/usr/local

./configure

make

make install

**(Note:**  Invoke python2.7 explicitly if required at all instances, in case there are multiple Python versions installed on your machine. We leave this topic to Build Management team for driving to a conclusion.)

## Install dependent libraries on Linux

* + 1. - JDCal <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\linux_installers\python)> (Alternate Web URL: [Link](https://pypi.python.org/packages/source/j/jdcal/jdcal-1.0.tar.gz))
    2. - OpenPyXl <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\linux_installers\python)> (Alternate Web URL: [Link](https://pypi.python.org/packages/source/o/openpyxl/openpyxl-2.1.4.tar.gz))
    3. – SetUpTools <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\linux_installers\python)> (Alternate Web URL: [Link](https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev))
    4. - lxml <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\linux_installers\python)> (Alternate Web URL: [Link](http://pypi.python.org/packages/source/l/lxml/lxml-3.4.2.tar.gz)) (Note: This has C source code, hence fire make command additionally for this module)

Install each library by recursing into the directory and invoking the following command:

*#python2.7 setup.py install*

*(Note that python2.7 is being invoked explicitly, so that modules get copied into the correct location)*

## Linux – JRE Installation

Below steps capture the details to installing Java Run Time Environment (JRE) on a Linux host machine

1. Download from < [Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\linux_installers\java) > and copy to your Linux directory
2. Log in as root, and execute

*# rpm -ivh jdk-7u75-linux-x64.rpm*

If you plan to install from the rpm given in link above.

1. Check version:

*# /usr/java/jdk1.7.0\_75/bin/java -version*

**Note:**  Invoke ***/usr/java/jdk1.7.0\_75/bin/java*** explicitly if required at all instances, in case there are multiple JRE versions installed on your machine.

We leave this topic to Build Management team for driving to a conclusion.

# Self-Installation on Windows

## Download Python2.7 & add on modules

1. Download and Extract *‘python-2.7.7.msi’* from <[Local Link](file:///\\\\blrsdn60.lantiq.com\\LQIN-SDC\\COM\\dbtool\\windows_installers\\python)> (or official Python [Link](https://www.python.org/ftp/python/2.7.7/python-2.7.7.msi)) to your local machine.
2. Install Python2.7 to default path ie: C:\Python27
3. Create a directory called **C:\Python27\add\_ons** . Download, save and extract the below four modules to **C:\Python27\add\_ons** directory:

- JDCal <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\windows_installers\python\add_ons)> (Alternate Web URL: [Link](https://pypi.python.org/packages/source/j/jdcal/jdcal-1.0.tar.gz))

- OpenPyXl <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\windows_installers\python\add_ons)> (Alternate Web URL: [Link](https://pypi.python.org/packages/source/o/openpyxl/openpyxl-2.1.4.tar.gz))

- SetUpTools <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\windows_installers\python\add_ons)> (Alternate Web URL: [Link](https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev))

- lxml <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\windows_installers\python\add_ons)> (Alternate Web URL: [Link](https://pypi.python.org/packages/2.7/l/lxml/lxml-2.2.8.win32-py2.7.exe#md5=deb95d53dbd3734ecfb4f69850758427))

1. After Successful installation, add Python installation path to environment variable.  Right Click on My Computer-> Properties -> Advanced System Settings -> Environment Variable

For example

* 1. **Edit ‘User Variable’ Path:**

Before: C:\Program Files\Intel\WiFi\bin\;C:\Program Files\Common Files\Intel\WirelessCommon\

After: C:\Program Files\Intel\WiFi\bin\;C:\Program Files\Common Files\Intel\WirelessCommon\;**C:\Python27**

(The highlighted section is to be added)

## System Path Settings

**Disclaimer:** Your exact System Variable entries will depend on the softwares provided by IT and/or installed by you. Please resolve these issues with IT Team. They do not come under DBTool’s purview. What we provide here are the basic recommendations.

Edit ‘System Variable’ Path:

**Before:**

C:\Program Files\Intel\iCLS Client\;%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\;C:\Program Files\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files\Intel\Intel(R) Management Engine Components\IPT;C:\Program Files\Lenovo\Fingerprint Manager Pro;C:\Program Files\TortoiseHg\;C:\Program Files\Common Files\lenovo\easyplussdk\bin;C:\Program Files\Lenovo\Access Connections\;C:\Program Files\Lenovo\Password Manager\;C:\Program Files\Intel\WiFi\bin\;C:\Program Files\Common Files\Intel\WirelessCommon\;%JAVA\_HOME%\bin;%MAVEN\_HOME%\bin

**After:**

C:\Program Files\Intel\iCLS Client\;%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\;C:\Program Files\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files\Intel\Intel(R) Management Engine Components\IPT;C:\Program Files\Lenovo\Fingerprint Manager Pro;C:\Program Files\TortoiseHg\;C:\Program Files\Common Files\lenovo\easyplussdk\bin;C:\Program Files\Lenovo\Access Connections\;C:\Program Files\Lenovo\Password Manager\;C:\Program Files\Intel\WiFi\bin\;C:\Program Files\Common Files\Intel\WirelessCommon\;%JAVA\_HOME%\bin;%MAVEN\_HOME%\bin;**C:\Python27**

(The highlighted section is to be added)

## Installing the downloaded add on modules

|  |
| --- |
| Installing in same order is important as documented below. |

python c:\Python27\add\_ons\**jdcal-1.0**\setup.py install

python c:\Python27\add\_ons\**pypa-setuptools**\setup.py install

python c:\Python27\add\_ons\**openpyxl-2.1.4**\setup.py install

lxml link provided is an executable file on windows, so just run the .exe file and lxml module is installed.

|  |
| --- |
|  |

**Usage:** Just fire “python” from Command line.

exit() - exits the Python interpreter shell - FYI

## Windows – JRE Installation

Summary of details for installing Java Run Time Environment (JRE) on Windows host.

Install JRE Version: 1.7.0\_45 from <[Local Link](file:///\\blrsdn60.lantiq.com\LQIN-SDC\COM\dbtool\windows_installers\java)>. Whether the 64bit or 32bit version needs to be installed is again dependant on the OS provided by IT. *General tip.. 32bit variant works on 64bit OS.*

# Launching DBTool

This step needs to be performed to get the DBTool installation done. This is common for both Linux and Windows. Perform this after you have done the self-installation of Python and Java.

## Clone and run DBTool from repo

1. Please clone DBTool from the repo if you have not done it yet. <Repo [Link](https://mts.lantiq.com/~wlnsw/repo/component/ugw/sdk_utils)>
2. For Linux: Goto dir ‘DBTool/src’ and run ‘***dbtool.sh’***
3. For Windows: Goto dir ‘DBTool\src’ and run ‘***dbtool.bat’***
4. Please refer to 02\_Usage\_Guide.docx for further details.