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**Installing Python 2.7 and PyEZ for running JSCAN on Windows (CBP)**

**INSTALL PYTHON 2.7**

1. Install Python 2.7.11 or later. This step will require admin privileges. Contact your FTO and ask for this to be installed.
2. Download and install the following on Windows. These installs should not require admin privileges.
   1. Visual C++ for Python 2.7 (**VCForPython27.msi**)
   2. LXML (**lxml-3.3.2.win32-py2.7.exe**)
   3. PyCrypto (**pycrypto-2.6.win32-py2.7.exe**)
3. Verify the Windows packages are installed, by checking under Control Panel > Programs.

**INSTALL PYTHON DEPEDENCIES**

1. Download the following zipped packages from **pypi.python.org**. If the specific version is not available, get the closest possible.
   1. **ecdsa-0.13**
   2. **MarkupSafe-0.23**
   3. **setuptools-24.0.3**
   4. **Jinja2-2.8**
   5. **lxml-3.6.0** (Ignore issues)
   6. **ncclient-master**
   7. **netaddr-0.7.18**
   8. **paramiko-1.17.1**
   9. **pip-8.1.2**
   10. **prettytable-0.7.2**
   11. **pycrypto-2.6.1** (Ignore issues)
   12. **pyserial-3.1.1**
   13. **PyYAML-3.11**
   14. **scp-0.10.2**
   15. **six-1.10.0**
   16. **py-junos-eznc-master**
2. Extract package directories to “Python27” directory. So for instance, the ecdsa-0.13 should be located in Python27 directory **C:\Python27\ecdsa-0.13\**
3. Run the following command from C:\ prompt (CLI) to add python.exe to system path. This command must be run every time you open a new command prompt window.
   1. **set path=%path%;C:\Python27\**
4. To install the packages into Python…
   1. From the command prompt, navigate to each directory, ie. **C:\Python27\ecdsa-0.13\**
   2. From this path, type: **python setup.py install**
   3. You should see a lot of processing, the install will either tell you install was successful or what dependencies are needed
5. Verify the Python packages are installed…
   1. Open a command prompt, run the “**set path=%path%;C:\Python27\**” command if necessary
   2. Open the python interpreter by typing, **python**
   3. You should get the “**>>>**” prompt
   4. Enter the help utility by typing, **help()**
   5. You should get the “**help>**” prompt
   6. Show the python modules installed by typing, **modules**
   7. Check for all the python packages… **ecdsa, jinja2, lxml, markupsafe, ncclient, netaddr, paramiko, pip, prettytable, jnpr, serial, yaml, scp, setuptools, six**

**VERIFY PYEZ IS INSTALLED**

1. Open a command prompt, run the “**set path=%path%;C:\Python27\**” command if necessary
2. Open the python interpreter by typing, **python**
3. You should get the “**>>>**” prompt
4. Type the following, “**from jnpr.junos import Device**”
5. If the interpreter prints another “**>>>**” prompt, it should be configured correctly, you can now try to run jscan.
6. If the interpreter prints an error, py-junos-eznc-master is not installed correctly, try the procedure for installing again at step 4 of dependency installation. Be sure that it runs through the entire install process and finishes successfully.
7. If you continue to have issues, contact your Juniper representative.

**INSTALL JSCAN**

1. Go to GitHub and search for “jscan”. Click on the selection that has **tylerjordan** and download the zip.
2. Extract the files into a directory on your computer, ie. **C:\python\jscan\**
3. Open a CMD prompt. Run **set path=%path%;C:\Python27\** to add the python directory to system path.
4. Navigate to the “jscan” directory
5. Type to run jscan, **python jscan.py –u <username>**

NOTE: Replace **<user>** with your hashid or other valid login username