Following are instructions for installing software which will be used on Friday workshop:

1. **SSH software**

   For windows user, you can download from http://www.putty.org/

   For Linux and Mac user, original terminal should be enough.

1. **Apply an AWS account** from https://aws.amazon.com/tw/

   This one is optional since it requires credit card number.

   You can still share data from our AWS account.

1. **Python Library**

   Please refer to the following pages based on your environment.

1. **Download WuKong source code** from https://github.com/wukong-m2m/wukong-darjeeling

For Windows 10 user, please follow the below steps to install Python library.
For other Windows version user, please find the comparable way to install library.

1. Download and install Python 2.7.12 from https://www.python.org/downloads/

1. Download pip package from http://www.lfd.uci.edu/~gohlke/pythonlibs/#pip

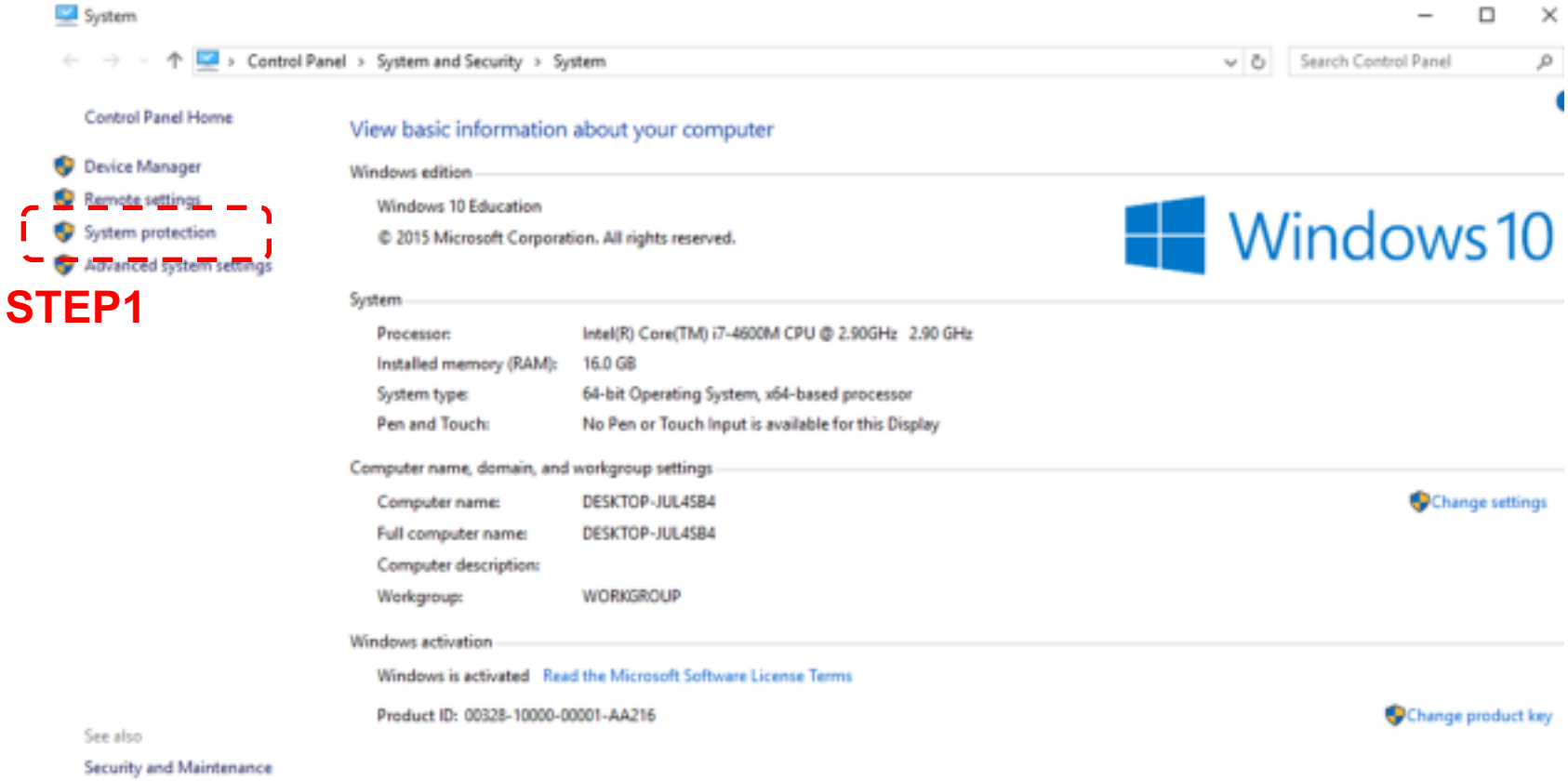
1. Go to Python installed folder
   cd C:\Python27

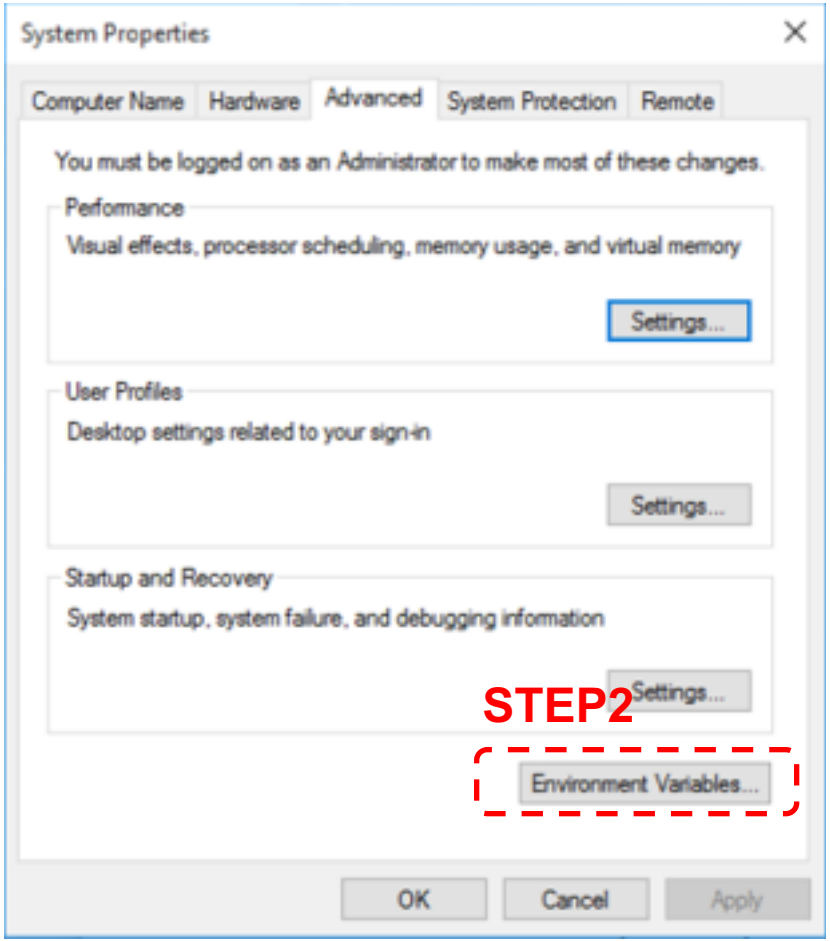
1. Move downloaded pip package to Python installed folder
   C:\Users\<username>\Downloads\pip-8.1.2-py2.py3-none-any.whl .

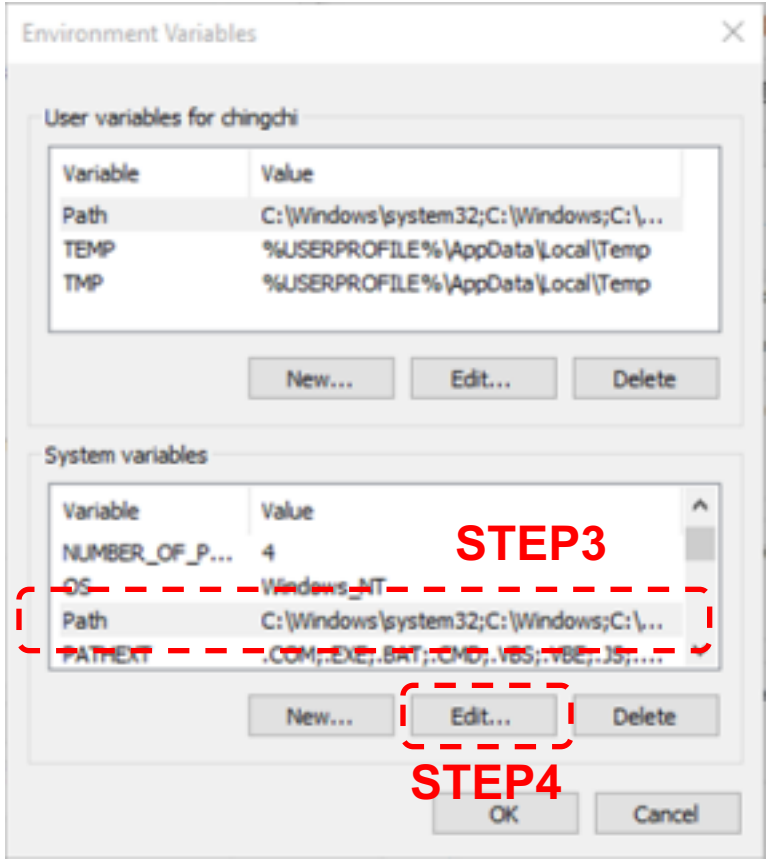
1. Run
   python.exe pip-8.1.2-py2.py3-none-any.whl/pip install pip-8.1.2-py2.py3-none-any.whl.

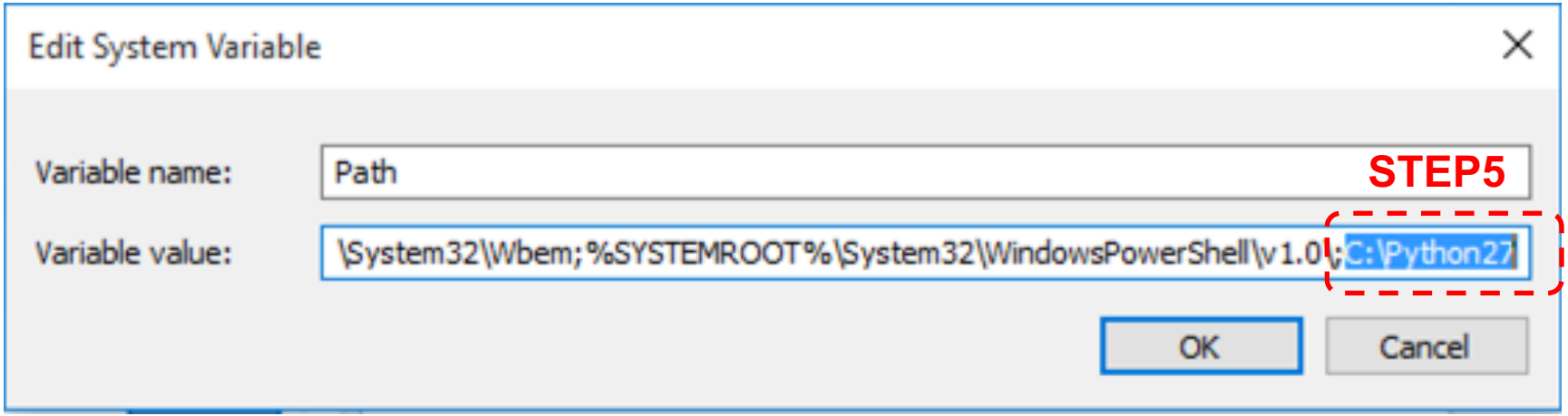
1. Download and install Microsoft Visual C++ Compiler for Python 2.7

1. Add Python folder (for example, C:\Python27\) to your path (Start / Edit environment variables) as shown in the next page.


System
Control Panel › System and Security › System
Search Control Panel
Control Panel Home
Device Manager
Remote settings
System protection
Advanced system settings
STEP1
View basic information about your computer
Windows edition
Windows 10 Education
© 2015 Microsoft Corporation. All rights reserved.
Windows 10
System
Processor: Intel(R) Core(TM) i7-4600M CPU @ 2.90GHz 2.90 GHz
Installed memory (RAM): 16.0 GB
System type: 64-bit Operating System, x64-based processor
Pen and Touch: No Pen or Touch Input is available for this Display
Computer name, domain, and workgroup settings
Computer name: DESKTOP-JUL4SB4
Change settings
Full computer name: DESKTOP-JUL4SB4
Computer description:
Workgroup: WORKGROUP
Windows activation
Windows is activated Read the Microsoft Software License Terms
Product ID: 00328-10000-00001-AA216
Change product key
See also
Security and Maintenance


System Properties
Computer Name
Hardware
Advanced
System Protection
Remote
You must be logged on as an Administrator to make most of these changes.
Performance
Visual effects, processor scheduling, memory usage, and virtual memory
Settings...
User Profiles
Desktop settings related to your sign-in
Settings...
Startup and Recovery
System startup, system failure, and debugging information
Settings...
STEP2
Environment Variables...
OK
Cancel
Apply


Environment Variables
User variables for chingchi
Variable
Value
Path
C:\Windows\system32;C:\Windows;C:\...
TEMP
%USERPROFILE%\AppData\Local\Temp
TMP
%USERPROFILE%\AppData\Local\Temp
New...
Edit...
Delete
System variables
Variable
Value
NUMBER_OF_P...
4
OS
Windows_NT
Path
C:\Windows\system32;C:\Windows;C:\...
PATHEXT
.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;...
STEP3
New...
Edit...
Delete
STEP4
OK
Cancel


Edit System Variable
Variable name:
Path
STEP5
Variable value:
\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\;C:\Python27
OK
Cancel

8. Install required library for running WuKong nodes
   pip install twisted python-cjson gevent netifaces

8. Install PyAudio using pip
   pip install pyaudio

8. Install required library for testing AWS:
   pip install AWSIoTPythonSDK

For Mac user, please follow the below steps to install Python library.

1. Install pip
   sudo easy_install pip

1. Install required library for running WuKong nodes
   pip install twisted python-cjson gevent netifaces

1. Install PyAudio using pip
   brew install portaudio
   pip install pyaudio

1. Install required library for testing AWS:
   pip install AWSIoTPythonSDK

For Linux user, please follow the below steps to install Python library.

1. Install pip

   ```
   sudo apt-get install python-pip
   ```

1. Install required library for running WuKong nodes

   ```
   pip install twisted python-cjson gevent netifaces
   ```

1. Install PyAudio using pip

   Use the package manager to install PyAudio:

   ```
   sudo apt-get install python-pyaudio
   ```

   If the latest version of PyAudio is not available, install it using pip:

   ```
   pip install pyaudio
   ```

1. Install required library for testing:

   ```
   pip install AWSIoTPythonSDK
   ```