Multi Bus Tester - Installation Guide

Release 0.2.3

Dec 22, 2022

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This document describes how to install the MB-Tester environment to run and/or develop MB-Tester scripts.

CHAPTER

ONE

1. MINIMAL REQUIRED ENVIRONMENT

Operating System : Windows 10 64 bit (or newer) **Disk Space** : approximately 1GiB. (Python: 400MiB, MB-Tester a 100 MiB.) If you want to use Visual Studio (approximately 20GiB) or another editor, add the space for that. **Python:** 3.8 or newer. **Memory** : min 4GiB

What to install depending on your needs

SW to install	To Execute Scripts	To Develop Scripts
Python	Yes	Yes
Python Packages	Yes	Yes
Visual Studio or Visual Studio Code (or another editor/debugger)	No	Yes

Supported communication devices

Communication	Device	Driver version(s)	Note
NFC	FEIG CPR40.30-USB	2.50.0.0 (2009.10.06), 3.26.0.55331 (2019.09.12)	USB communication device
NFC	FEIG CPR40.00-CDUSB		Serial communication device
MP, Modbus RTU	COM port in Windows		Standard serial communication

CHAPTER

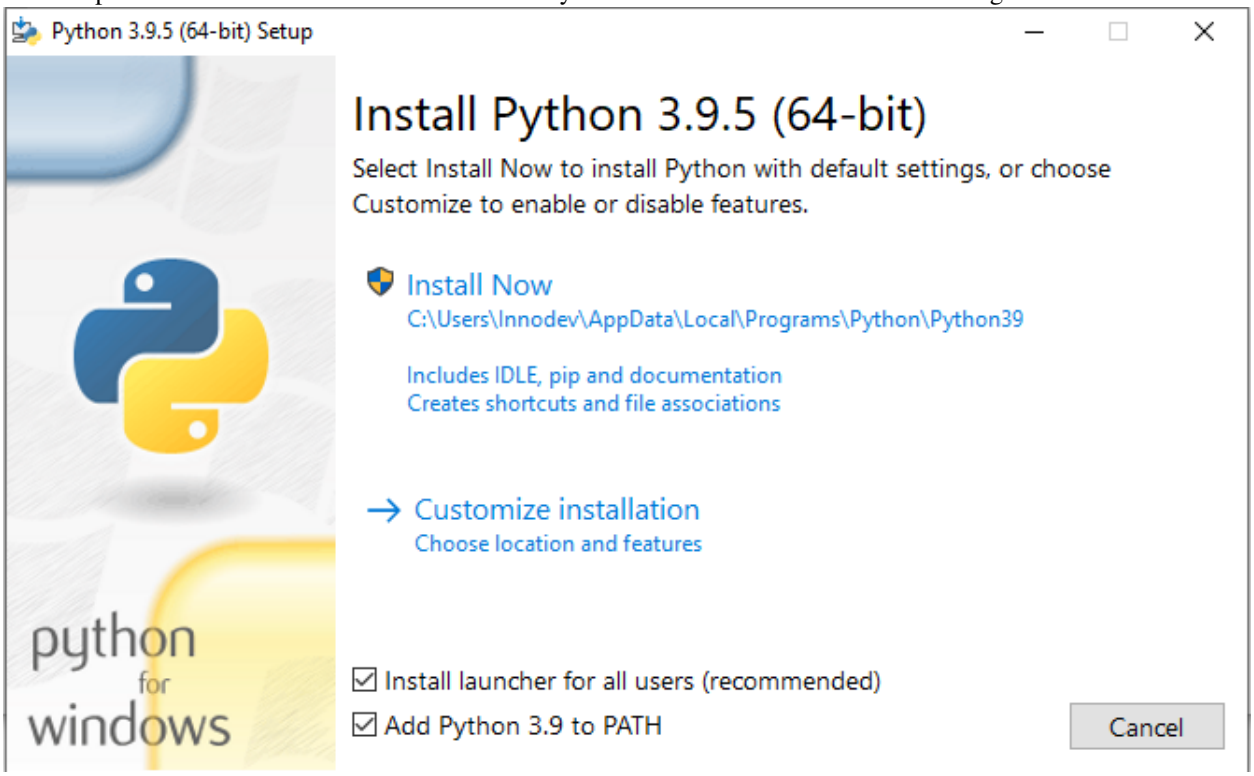
TWO

2. INSTALL PYTHON

2.1 2.1 Method 1: From python.org

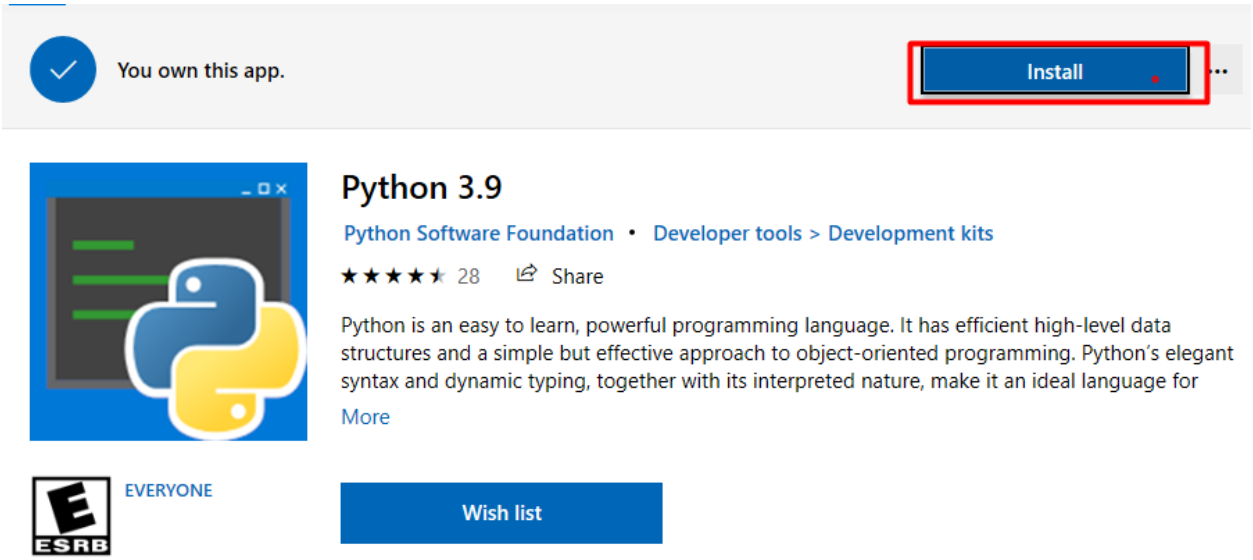
Download and install python from here: https://www.python.org/downloads/ At the Files sub-article choose this installer: Windows installer (64-bit)

Set up the checkbox of "Add Python x.x to PATH" during the installation.



2.2 2.2 Method 2: From the Microsoft Store

Start the Microsoft Store or type the python command in cmd, and it will redirect into the Microsoft Store, where you can install the Python 3.9 (or newer).



Python can also be installed from the Visual Studio installer.

CHAPTER

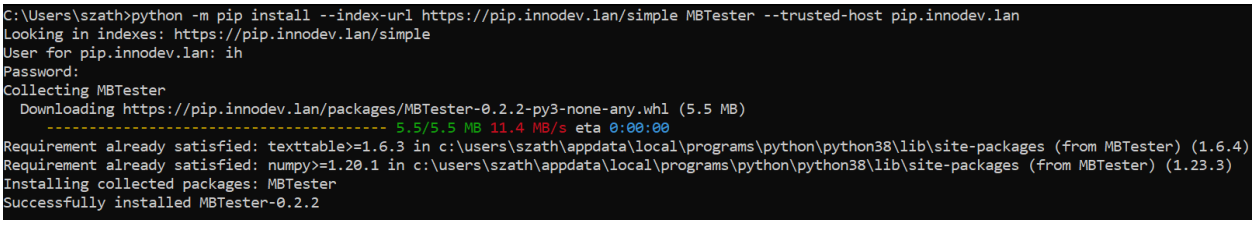
THREE

3. INSTALL PYTHON PACKAGES

Warning: Please be careful if you did not set the "Add Python x.x to PATH" checkbox during the installation, or if your PATH contains different python paths. In this case you need to make sure to install the packages into the environment that you want to use for the MB-Tester.

Open cmd and type in the following commands for the correct python environment:

```
python -m pip install --upgrade pip
python -m pip install --index-url https://pip.innodev.lan/simple MBTester --trusted-host pip.innodev.lan
```



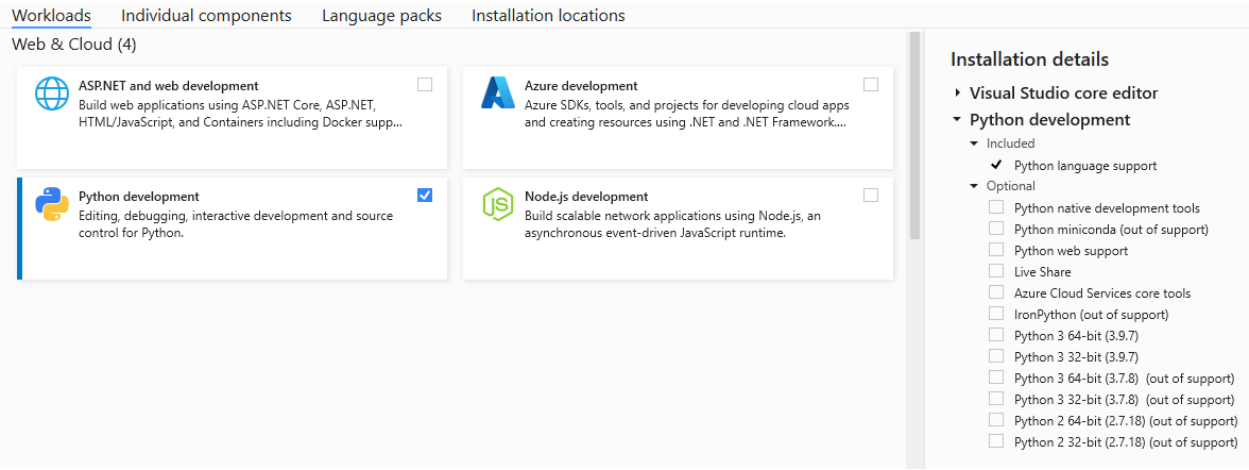
CHAPTER

FOUR

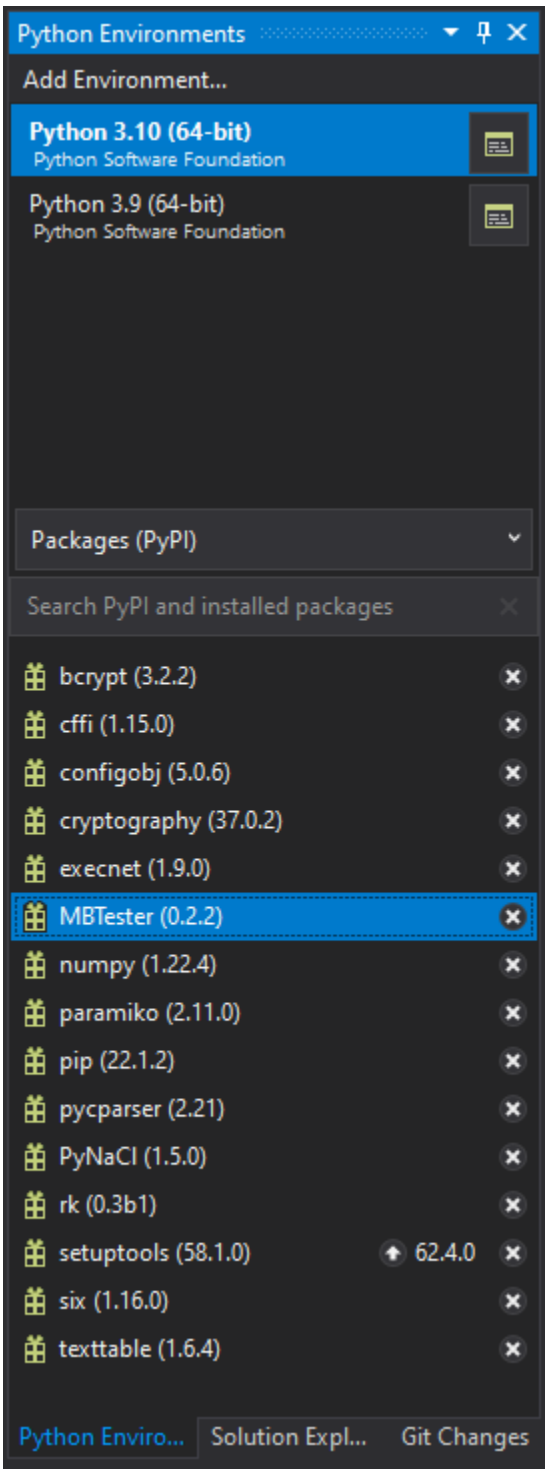
4. INSTALL VISUAL STUDIO

Download the installer from the official web site of Visual Studio: https://visualstudio.microsoft.com/ . This guide uses the Visual Studio Community 2019 edition as an example.

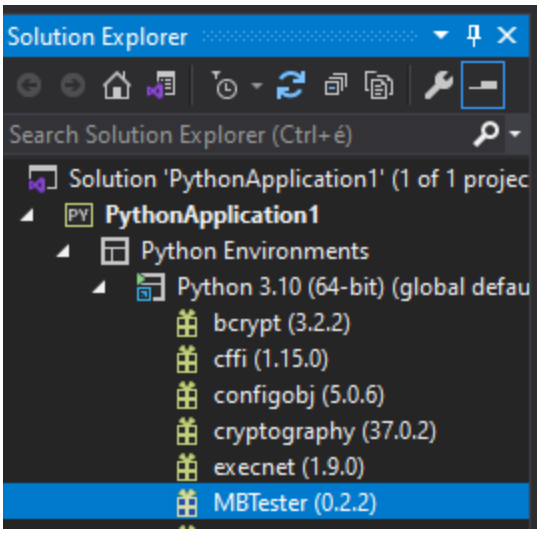
During the installation select Python development package. No additional components required.



A Python developer's computer usually has more than one Python Environment installed. The "python -m pip install" command installs MBTester package into the active environment. Visual Studio can list all environments in the Python Environments window.

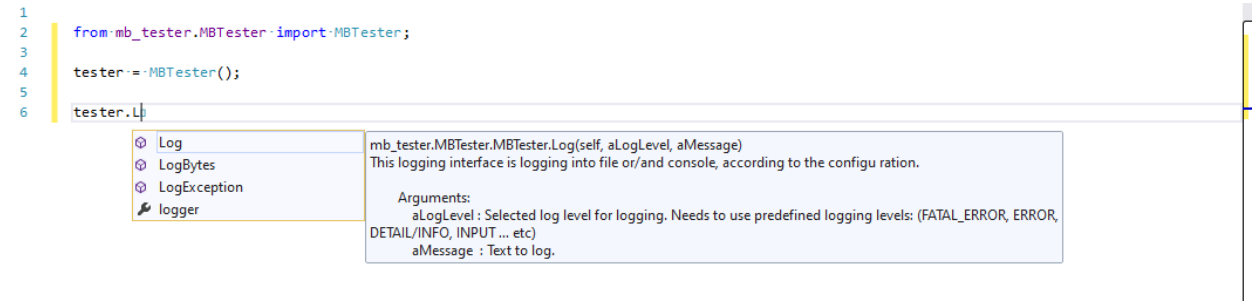


It is important to use the correct Python enviroment in the Visual Studio project, where MB-Tester has been installed.



Please read how to select the Python environment of a project here: Choose a Python environment - Visual Studio (Windows) | Microsoft Docs

IntelliSense will look like this after a successful installation:



CHAPTER

FIVE

5. INSTALL VISUAL STUDIO CODE

Download the installer from the official web site of Visual Studio Code:

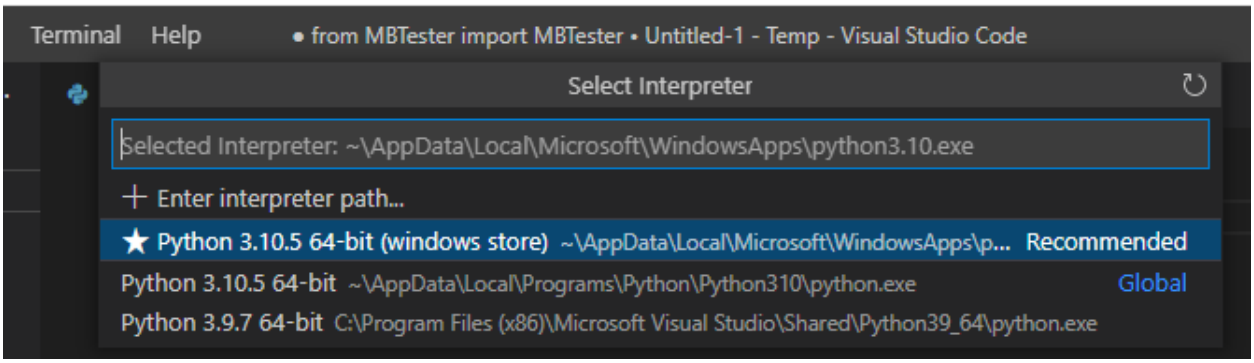
Download Visual Studio Code - Mac, Linux, Windows

After the installation go to the Extensions page, search for “python” and install “Python extension for Visual Studio Code”. This gives rich python language support and IntelliSense as well.

In case there are multiple Python enviroments installed on the computer, you have to select the one MBTester is installed in. Visual Studio Code provides several methods to change select the python environment.

Check the bottom right corner of VSCode application for the currently used Python enviroment version number.

Click on “3.10.5 64-bit” (or similar). The Command Palette appears, listing all available Python environments. Select the one where MBTester is installed in (most probably the one with “Global” text).



IntelliSense after a successful installation: