PLC Logger manual

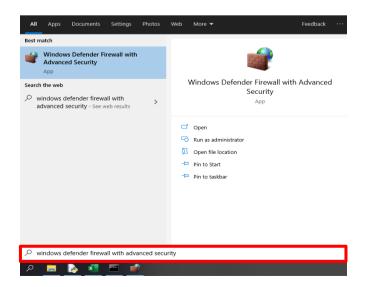
If your PC was restarted => Go to section "B) Starting the PLC Logger" and do steps: $1 \Rightarrow 2 \Rightarrow 3 \Rightarrow 4 \Rightarrow 5$

A) How to setup the Firewall for PLC Logger

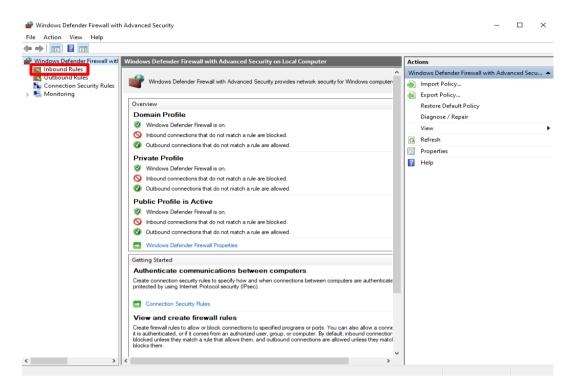
1. Press "windows key" to open the search box



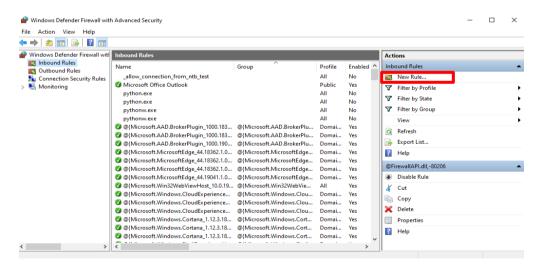
2. Type "Windows Defender Firewall with Advanced Security"



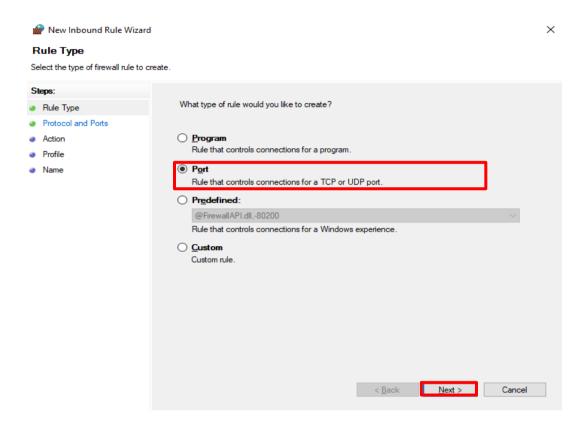
- 3. Press "ENTER" to open Windows Defender Firewall with Advanved Security
- 4. Click to "Inbound Rules"



5. Click to "New Rule..."



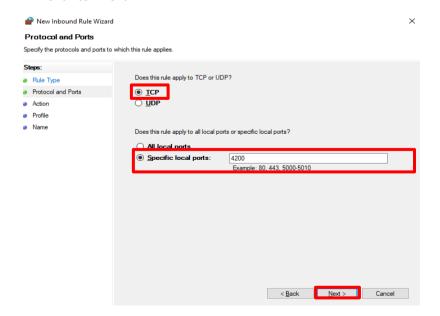
- 6. New Inbound Rule Wizard will open
- 7. Click to "Port"
- 8. Click to "Next >"



- 9. Click to "TCP"
- 10. Click to "Specific local ports:"
- 11. Type "4200"

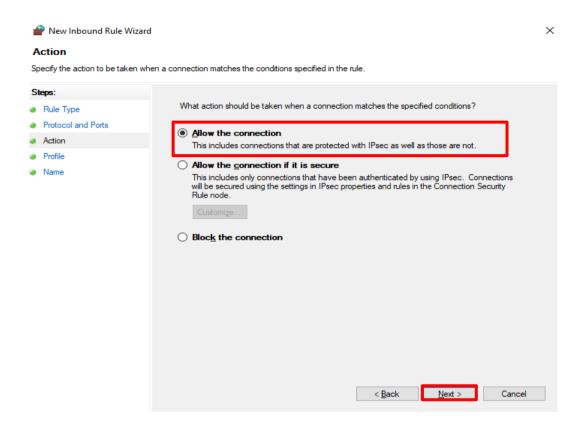
(if the server listens on different port, write that port number in the box)

12. Click to "Next >"



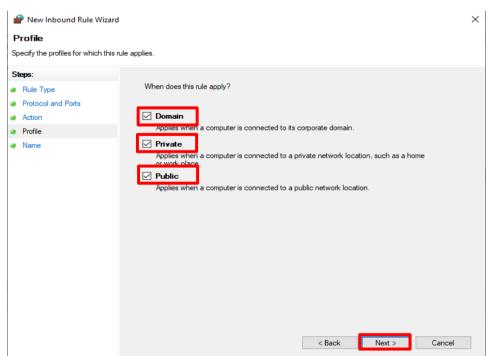
13. Click to "Allow the connection"

14. Click to "Next >"



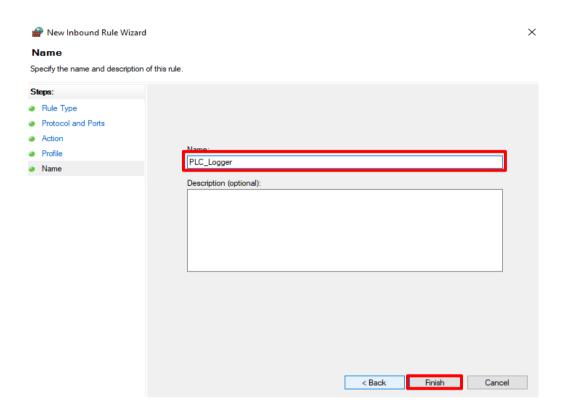
15. All boxes should be checked

16. Click to "Next >"

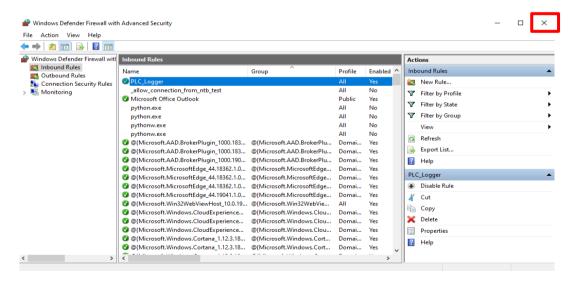


17. Write "PLC_Logger" in the "Name:" box

18. Click to "Finish"



19. Close Windows Defender Firewall with Advanved Security

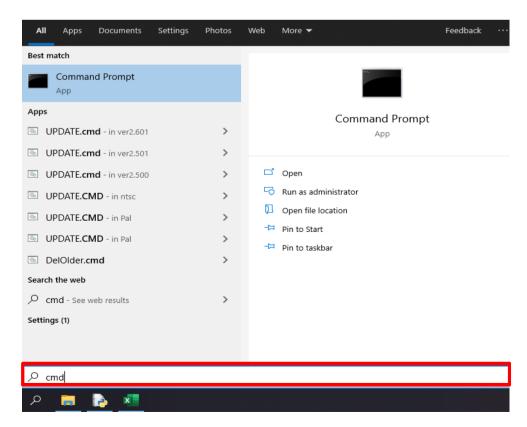


B) Starting the PLC Logger

1. Press "windows key" to open the search box



2. Type "cmd"



- 3. Press "ENTER" to open the command prompt
- 4. If you do not have PLC Logger script, you can download it from GitHub with command "git clone https://github.com/ottohruby/PLC_Logger.git"
- 5. If you do not have git installed, you will get this response => go to section "C) Git installation"

```
C:\Users\alcz_rdp05>
```

6. If you have git installed, you should get this response

```
Command Prompt

Wicrosoft Windows [Version 10.0.19042.685]
(c) 2829 Microsoft Corporation. All rights reserved.

C: Visers\alcz_rdp85ygit clone https://github.com/ottohruby/PLC_Logger.git
cloning into 'PLC Logger'...
remote: Enumerating objects: 100% (2017), done.
remote: Counting objects: 100% (21/21), done.
remote: Compressing objects: 100% (21/21), done.
remote: Compressing objects: 100% (21/21), done.
Recciving objects: 100% (30/30), 3.82 MiB | 2.87 MiB/s, done.
Recciving objects: 100% (10/10), done.

C:\Users\alcz_rdp85_

C:\Users\alcz_rdp85_
```

- 7. The GitHub repository is now downloaded (in this example the <location of logger> is "C:\Users\alcz_rdp05")
- 8. This script has been tested on Python 3.9.1. Check if you have Python 3.9.1 installed with command "python"

```
Select Command Prompt - python

Microsoft Windows [Version 10.0.19842.685]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\alc_rdp05>python
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 16:33:24) [MSC v.1928 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

- 9. If not go to section "D) Python installation"
- 10. Start the script with command "python <location of logger>\PLC_LOGGER\server.py" For example: "python C:\Users\alcz_rdp05\PLC_Logger\server.py"

```
C:\Users\alcz_rdp05>python C:\Users\alcz_rdp05\PLC_Logger\server.py
```

11. Press "ENTER"

12. If you have not installed pandas on your machine the following error occurrs

If your script starts go to STEP 16

- 13. Install pandas with command "pip install pandas" (this works only if you are connected to Internet)
- 14. Wait until you see "Successfuly installed pandas-<version>"

- 15. Repeat STEP 10 and STEP 11 to start the script
- 16. The logger is working if you see "Waiting for a Connection"

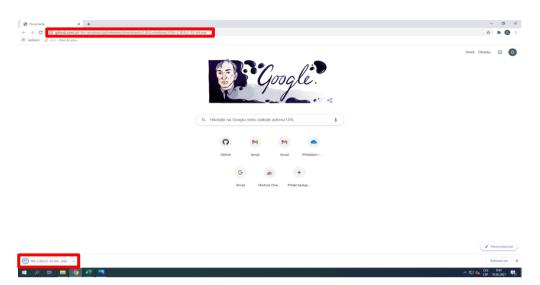
```
C:\Users\alcz_rdp05>python C:\Users\alcz_rdp05\Desktop\PLC_Logger\server.py
Listening at port: 4200
Waiting for a Connection..
```

C) Git Installation

1. Download git from URL:

"https://github.com/git-for-windows/git/releases/download/v2.30.0.windows.2/Git-2.30.0.2-32-bit.exe"

2. Open the downloaded file

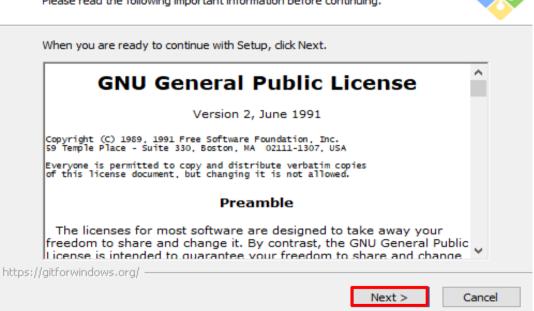


- 3. Git 2.30.0.2 Setup will open
- 4. Click to "Next >"

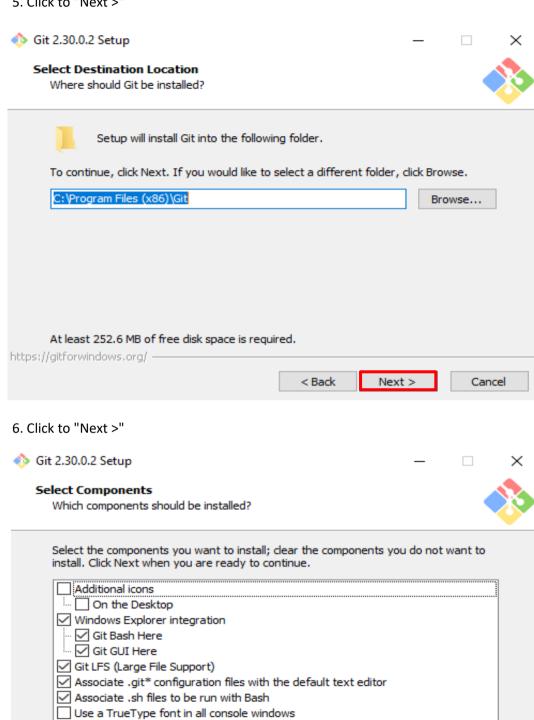


Information

Please read the following important information before continuing.



5. Click to "Next >"



Check daily for Git for Windows updates

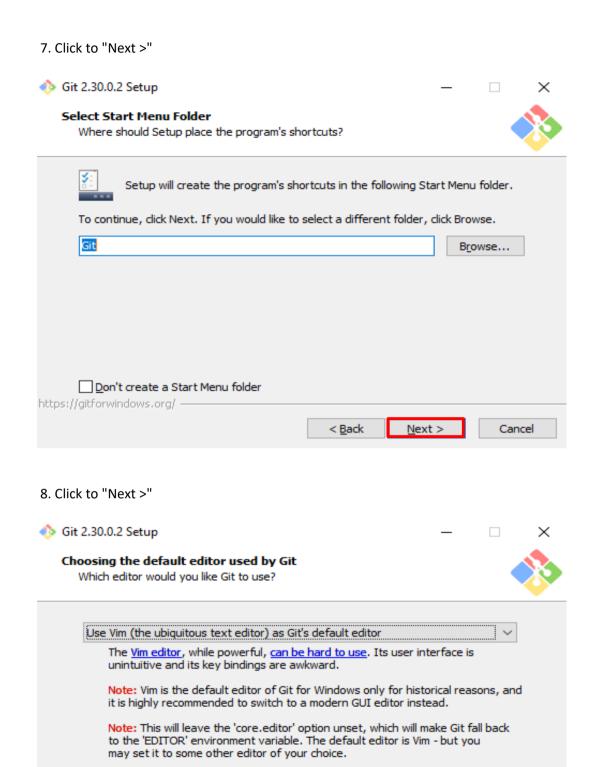
https://gitforwindows.org/ -

Current selection requires at least 252.5 MB of disk space.

< Back

Next >

Cancel



Next >

Cancel

< Back

https://gitforwindows.org/



Adjusting the name of the initial branch in new repositories

What would you like Git to name the initial branch after "git init"?



Let Git decide Let Git use its default branch name (currently: "master") for the initial branch in newly created repositories. The Git project intends to change this default to a more inclusive name in the near future. Override the default branch name for new repositories NEW! Many teams already renamed their default branches; common choices are "main", "trunk" and "development". Specify the name "git init" should use for the initial branch: main This setting does not affect existing repositories. Attps://gitforwindows.org/

10. Click to "Next >"



Adjusting your PATH environment

How would you like to use Git from the command line?



ancel

Use Git from Git Bash only This is the most cautious choice as your PATH will not be modified at all. You will only be able to use the Git command line tools from Git Bash.

• Git from the command line and also from 3rd-party software

(Recommended) This option adds only some minimal Git wrappers to your PATH to avoid duttering your environment with optional Unix tools. You will be able to use Git from Git Bash, the Command Prompt and the Windows PowerShell as well as any third-party software looking for Git in PATH.

Use Git and optional Unix tools from the Command Prompt

Both Git and the optional Unix tools will be added to your PATH. Warning: This will override Windows tools like "find" and "sort". Only use this option if you understand the implications.

https://gitforwindows.org/

ols like "find" and "sort". Only nplications.			
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11. Click to "Next >"



Choosing HTTPS transport backend

Which SSL/TLS library would you like Git to use for HTTPS connections?



• Use the OpenSSL library

Server certificates will be validated using the ca-bundle.crt file.

Use the native Windows Secure Channel library

Server certificates will be validated using Windows Certificate Stores. This option also allows you to use your company's internal Root CA certificates distributed e.g. via Active Directory Domain Services.

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Cancel

12. Click to "Next >"



Configuring the line ending conversions

How should Git treat line endings in text files?



Cancel

Checkout Windows-style, commit Unix-style line endings

Git will convert LF to CRLF when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Windows ("core.autocrlf" is set to "true").

O Checkout as-is, commit Unix-style line endings

Git will not perform any conversion when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Unix ("core.autocrlf" is set to "input").

O Checkout as-is, commit as-is

Git will not perform any conversions when checking out or committing text files. Choosing this option is not recommended for cross-platform projects ("core.autocrlf" is set to "false").

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Configuring the terminal emulator to use with Git Bash

Which terminal emulator do you want to use with your Git Bash?



Use MinTTY (the default terminal of MSYS2)

Git Bash will use MinTTY as terminal emulator, which sports a resizable window, non-rectangular selections and a Unicode font. Windows console programs (such as interactive Python) must be launched via `winpty` to work in MinTTY.

O Use Windows' default console window

Git will use the default console window of Windows ("cmd.exe"), which works well with Win32 console programs such as interactive Python or node.js, but has a very limited default scroll-back, needs to be configured to use a Unicode font in order to display non-ASCII characters correctly, and prior to Windows 10 its window was not freely resizable and it only allowed rectangular text selections.

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Cancel

14. Click to "Next >"

Git 2.30.0.2 Setup

Choose the default behavior of `git pull`

What should 'git pull' do by default?



Default (fast-forward or merge)

This is the standard behavior of `git pull`: fast-forward the current branch to the fetched branch when possible, otherwise create a merge commit.

○ Rebase

Rebase the current branch onto the fetched branch. If there are no local commits to rebase, this is equivalent to a fast-forward.

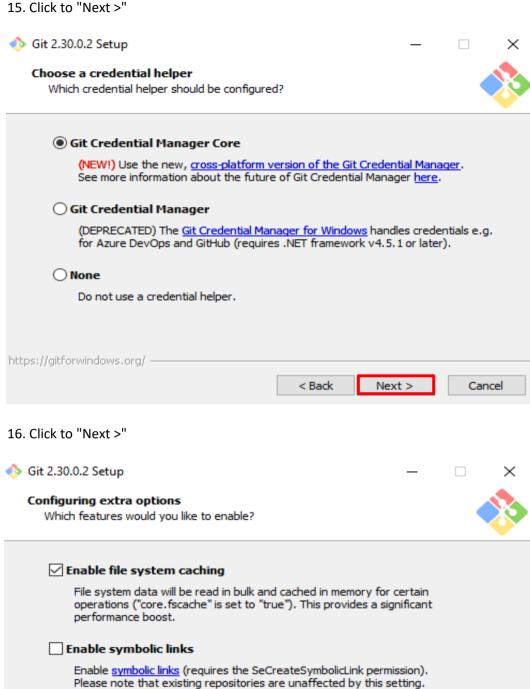
Only ever fast-forward

Fast-forward to the fetched branch. Fail if that is not possible.

https://gitforwindows.org/ -



https://gitforwindows.org/ -

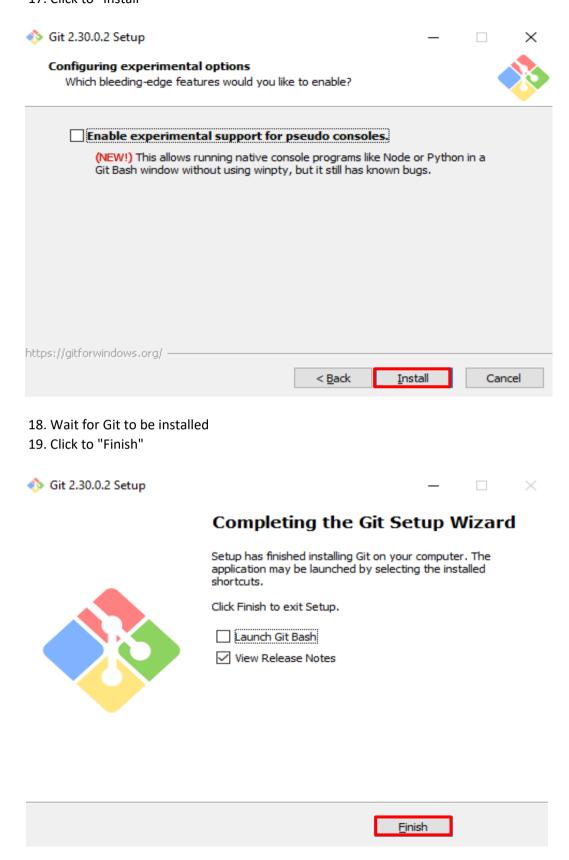


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Cancel

17. Click to "Install"



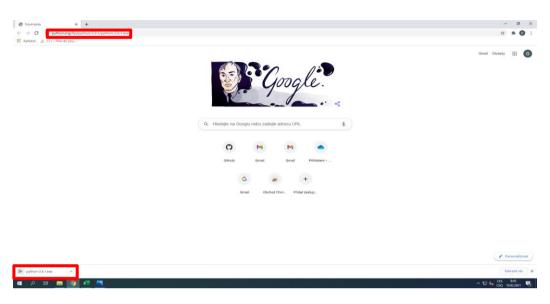
20. If you had opened the command prompt, close it and start it again

D) Python Installation

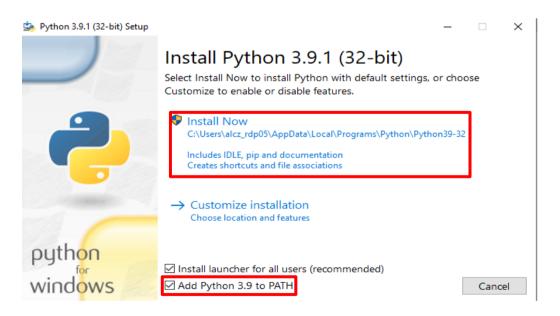
1. Download git from URL:

"https://www.python.org/ftp/python/3.9.1/python-3.9.1.exe"

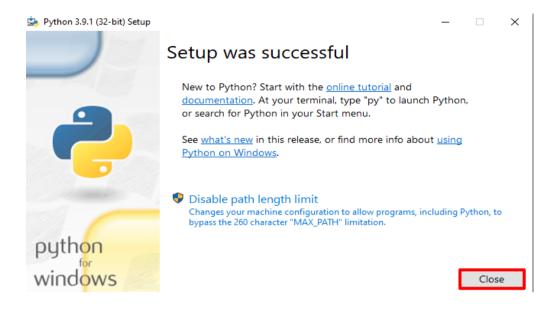
2. Open the downloaded file



- 3. Python 3.9.1 (32-bit) Setup will open
- 4. Check the box "Add Python 3.9 to PATH"
- 5. Click to "Install Now"



- 6. Wait for Python to be installed
- 7. Click to "Close"



8. If you had opened the command prompt, close it and start it again