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## Raspberry Pi How to Update Python on Raspberry

6 months ago • by Awais Khan

Python and Raspberry Pi OS are made for each other, as without Python, you will face issues while accessing your Raspberry Pi terminal or running other applications that require Python. There are other advantages of having Python on Raspberry Pi as well, such as ease of use, versatility, and freedom to access several Python libraries that are included in the Raspberry Pi libraries list.

Since replacing the older Python version with the new one is a complex task because you won't be able to remove the previous **Python** version as it will result in system failure. So, to help you out in this situation, we present this article to provide your guidelines on how you can update **Python** on Raspberry Pi.

### How to Update Python on Raspberry Pi

To update the **Python** version on Raspberry Pi, you must need to follow the step-by-step instruction given below:

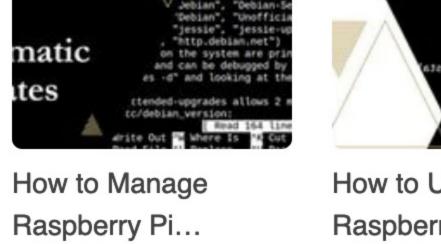
## Step 1: Install Python on Raspberry Pi

First, head toward the official Python website to check the latest version of Python. At the time of writing, the latest version of **Python** is **3.9.9**; thus, we have used the following command to install this version on Raspberry Pi.

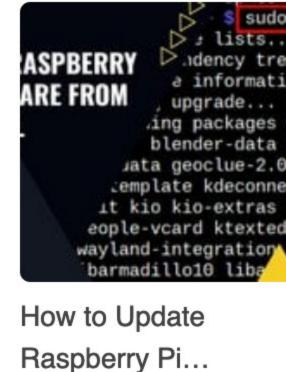
### \$ wget https://www.python.org/ftp/python/3.9.9/Python-3.9.9.tgz

```
pi@raspberrypi:~ $ wget https://www.python.org/ftp/python/3.9.9/Python-3.9.9.tgz
--2022-08-15 11:29:34-- https://www.python.org/ftp/python/3.9.9/Python-3.9.9.tg
Resolving www.python.org (www.python.org)... 199.232.44.223, 2a04:4e42:48::223
Connecting to www.python.org (www.python.org)|199.232.44.223|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25787134 (25M) [application/octet-stream]
Saving to: 'Python-3.9.9.tgz'
Python-3.9.9.tgz
                   eta 6s
```













**Step 2: Extract File Contents** 

Next, you must extract the contents of the Python-3.9.9.tgz file using the following command:

## \$ tar -zxvf Python-3.9.9.tgz

The above command will store the file in a directory with the name "Python-3.9.9".

## Step 3: Configure Python Latest Version on Raspberry Pi

After successfully extracting the contents, it's now time to configure **Python** on Raspberry Pi and for this purpose, head towards the **Python** directory using the following command:

## \$ cd Python-3.9.9

```
pi@raspberrypi:~ $ cd Python-3.9.9
pi@raspberrypi:~/Python-3.9.9 $
```

Next, apply the following command to configure **Python** on Raspberry Pi:

# \$ ./configure --enable-optimizations

```
pi@raspberrypi:~/Python-3.9.9 $ ./configure --enable-optimizations
checking build system type... armv7l-unknown-linux-gnueabihf
checking host system type... armv7l-unknown-linux-gnueabihf
checking for python3.9... python3.9
checking for --enable-universalsdk... no
checking for --with-universal-archs... no
checking MACHDEP... "linux"
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking how to run the C preprocessor...
```

latest version of **Python** on Raspberry Pi:

After the configuration, run the following command to build the installation packages for the

# \$ sudo make altinstall

```
pi@raspberrypi:~/Python-3.9.9 $ sudo make altinstall
gcc -pthread -c -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -03 -Wall
   -std=c99 -Wextra -Wno-unused-result -Wno-unused-parameter -Wno-missing-field-
initializers -Werror=implicit-function-declaration -fvisibility=hidden -I./Incl
ude/internal -I. -I./Include -DPy_BUILD_CORE -o Programs/python.o ./Programs
/python.c
gcc -pthread -c -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -03 -Wall
   -std=c99 -Wextra -Wno-unused-result -Wno-unused-parameter -Wno-missing-field-
initializers -Werror=implicit-function-declaration -fvisibility=hidden -I./Incl
ude/internal -I. -I./Include -DPy_BUILD_CORE -o Parser/acceler.o Parser/acce
ler.c
gcc -pthread -c -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall
   -std=c99 -Wextra -Wno-unused-result -Wno-unused-parameter -Wno-missing-field-
initializers -Werror=implicit-function-declaration -fvisibility=hidden -I./Incl
ude/internal -I. -I./Include -DPy_BUILD_CORE -o Parser/grammar1.o Parser/gra
mmar1.c
```

### Step 4: Update the Python Version on Raspberry Pi To make the latest version of **Python** the default one, you must need to remove the

previous **Python version** and replace it with the new one.

directory using the following command:

# \$ cd /usr/bin

\$ sudo rm python

# pi@raspberrypi:~ \$ cd /usr/bin

```
pi@raspberrypi:/usr/bin $ sudo rm python
pi@raspberrypi:/usr/bin $
```

following command:

```
pi@raspberrypi:/usr/bin $ sudo ln -s /usr/local/bin/python3.9 python
pi@raspberrypi:/usr/bin $
```

executing the following command:

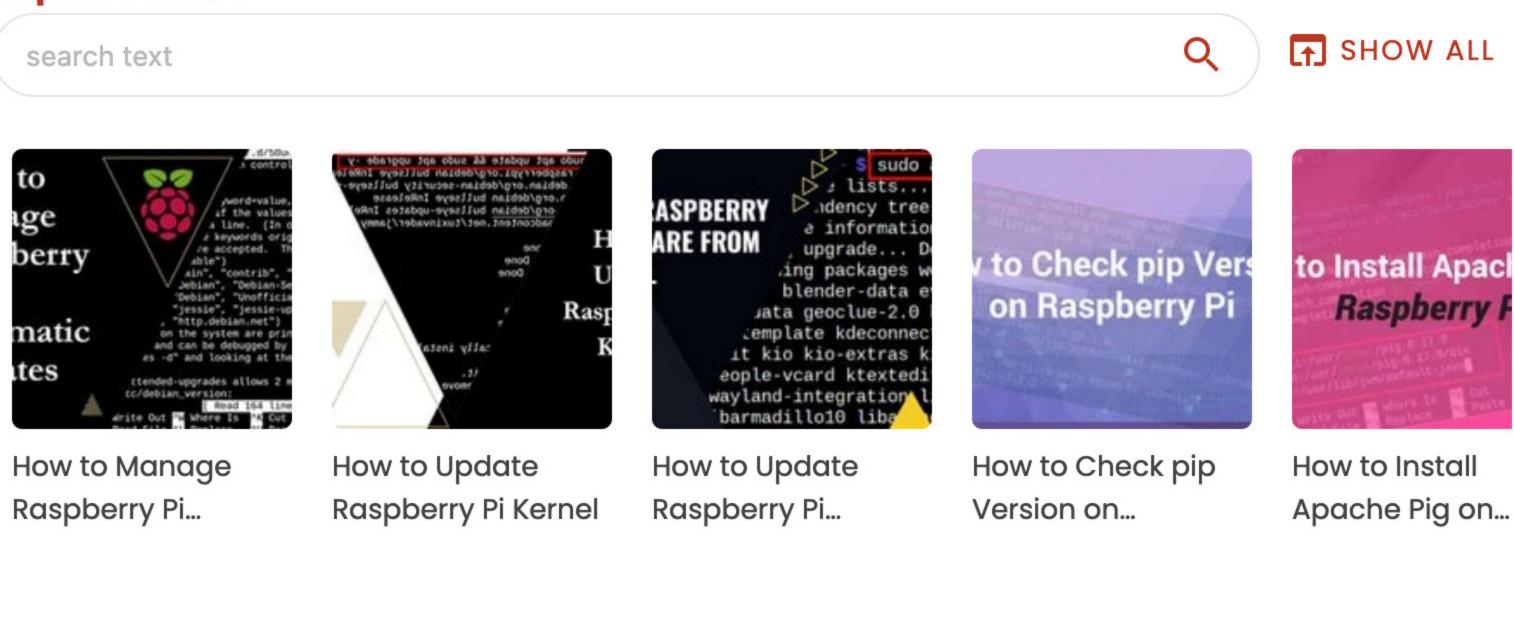
This will update the **Python version** on your Raspberry Pi device and you can confirm it by

\$ python --version

pi@raspberrypi:/usr/bin \$ Conclusion

that you have learned how to update the **Python** version on Raspberry Pi through the above guidelines, it's time to take out your Raspberry Pi device, open the terminal and perform the step-by-step instructions mentioned above to update the **Python** version successfully. **Explore More** 

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# **Awais Khan**

Raspberry Pi, embedded systems and blogging has brought me here to share my knowledge with others.

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# Since the **Python** files are stored inside the directory "/usr/bin", you must need to visit the

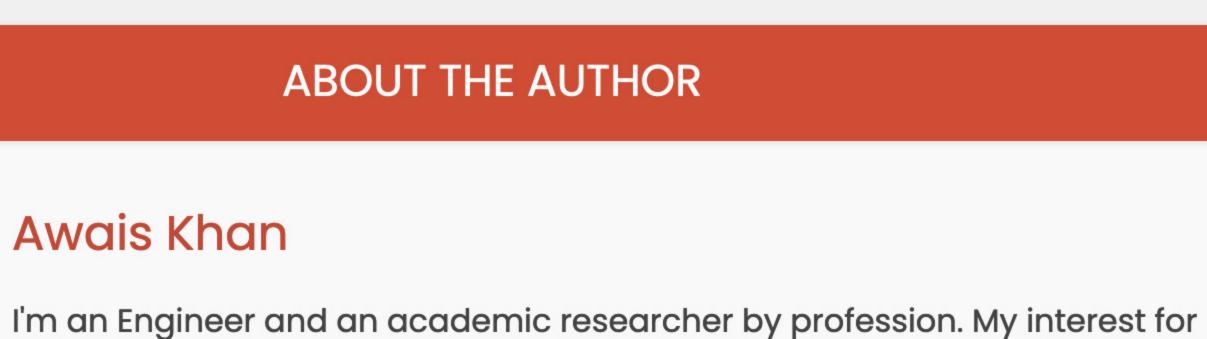
pi@raspberrypi:~ \$ cd /usr/bin pi@raspberrypi:/usr/bin \$

# At the current location, remove the previous **Python** directory using the following command:

# Next, link the latest version of **Python** placed inside the directory "usr/local/bin" using the

## pi@raspberrypi:/usr/bin \$ python --version Python 3.9.9

# Updating the **Python** will help you speed up your system and application's performance because the newer version comes with new features compared to the previous version. Now



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