Best way to open a socket in Python

Asked 16 years, 3 months ago Modified 10 years, 5 months ago Viewed 76k times



54

I want to open a TCP client socket in Python. Do I have to go through all the low-level BSD create-socket-handle / connect-socket stuff or is there a simpler one-line way?



python

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tcp



()

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edited Nov 22, 2012 at 13:58



Mike Pennington

43k • 21 • 139 • 188

asked Sep 16, 2008 at 2:06



Adam Pierce

34.3k • 23 • 71 • 89

Python's socket module should be helpful. – owenmarshall Sep 16, 2008 at 2:07 ▶

3 Answers

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Opening sockets in python is pretty simple. You really just need something like this:



```
import socket
sock = socket.socket()
sock.connect((address, port))
```





and then you can send() and recv() like any other socket

4

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answered Sep 16, 2008 at 2:09





OK, this code worked

23

```
s = socket.socket()
s.connect((ip,port))
s.send("my request\r")
print s.recv(256)
s.close()
```





It was quite difficult to work that out from the Python socket module documentation. So I'll accept The.Anti.9's answer.

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answered Sep 16, 2008 at 2:31



Adam Pierce **34.3k** • 23 • 71 • 89

For future reference, it's typically sound practice to used a larger parameter for socket.recv() than 256 bytes. I've frequently seen 4096 used. – junkforce Sep 16, 2008 at 3:18

Yes, good idea junkforce. What I was really after was to read a line of text, I'm now using the makefile() function to buffer the received data which works a treat. – Adam Pierce Sep 17, 2008 at 4:33

- 4 You forgot to check the return value of send.
 - Jean-Paul Calderone Mar 25, 2011 at 23:46
- for future readers: better to use s.sendall (os per @Jean-PaulCalderone comment) wim Jan 29, 2013 at 1:56



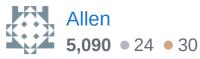
10

For developing portable network programs of any sort in Python, <u>Twisted</u> is quite useful. One of its benefits is providing a convenient layer above low-level socket APIs.



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answered Sep 16, 2008 at 2:28







3 Twisted = overkill – Mariusz Jamro Feb 16, 2017 at 21:45