

Best way to open a socket in Python

Asked 16 years, 3 months ago Modified 10 years, 5 months ago

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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?



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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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85

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



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edited Jul 22, 2014 at 2:05

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answered Sep 16, 2008 at 2:09



The.Anti.9

44.6k ● 49 ● 126 ● 162



OK, this code worked

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```
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

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For future reference, it's typically sound practice to use 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

1 for future readers: better to use `s.sendall` (as per @Jean-PaulCalderone comment) – [wim](#) Jan 29, 2013 at 1:56



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For developing portable network programs of any sort in Python, [Twisted](#) 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

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[Allen](#)

5,090 ● 24 ● 30



3 Twisted = overkill – [Mariusz Jamro](#) Feb 16, 2017 at 21:45
