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Source Code:
Server.py
import socket, ssl
HOST, PORT = '127.0.0.1', 443
def handle(conn):
  print(conn.recv())
  conn.write(b'HTTP/1.1 200 OK\n\n%s' % conn.getpeername()[0].encode())
def main():
  sock = socket.socket()
  sock.bind((HOST, PORT))
  sock.listen(5)
  context = ssl.create_default_context(ssl.Purpose.CLIENT_AUTH)
  context.load_cert_chain('cert.pem','cert.key' )
  context.options |= ssl.OP_NO_TLSv1 | ssl.OP_NO_TLSv1_1
  context.set_ciphers('EECDH+AESGCM:EDH+AESGCM:AES256+EECDH:AES256+EDH')
  while True:
    conn = None
    ssock, addr = sock.accept()
       conn = context.wrap_socket(ssock, server_side=True)
       handle(conn)
    except ssl.SSLError as e:
       print(e)
    finally:
       if conn:
         conn.close()
if __name__ == '__main__':
  main()
Client.py
import socket, ssl
HOST, PORT, server_sni_hostname = '127.0.0.1', 443, 'Weijian Xiong'
server_cert = 'cert.pem'
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def handle(conn):

conn.write(b'GET / HTTP/1.1\n')
print(conn.recv().decode())

```
print('client successfully connected!')

def main():

    context = ssl.create_default_context(ssl.Purpose.SERVER_AUTH, cafile=server_cert)
    context.options |= ssl.OP_NO_TLSv1 | ssl.OP_NO_TLSv1_1
    sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    conn = context.wrap_socket(sock,server_side=False, server_hostname =
    server_sni_hostname)
    try:
        conn.connect((HOST, PORT))
        handle(conn)
    finally:
        conn.close()

if __name__ == '__main__':
    main()
```

Generate certificate and key:

Run server and client:



