

Made by Parker Eischen

```
include socket(  
from os import chmod  
from Crypto.Cipher import AES (encrypted and decrypted AES)  
from Crypto.PublicKey import RSA (used to create the public and private key of the server,  
encryption and decryption as well)  
from Crypto import Random (to generate a the randomness of the RSA keys)  
import hashlib (used to hash the password)  
import uuid
```

**Proof of Success:**

```
parkers-MacBook-Pro:3403-Project3 parkereischen$ python server.py
starting up on localhost port 10001
waiting for a connection
connection from ('127.0.0.1', 50538)
b'\xc5d4\x9e\xbd\x78f\x00a\xbc\xbd5\x8ds\x15\x06\xff\xbd3\xabf\x04\x90\xad
3\xfb8\xae\x05\x0e\x3e3t8\xad\x87\x9a\x81\x0f\x8f\xec\x06\xbd3\x02\xec\x00\x09\xf6
\xab\x0b\x1a\x83\x0c\x91\x02r\xda\xbd327\x00\xce>\x88\xbd3\x06\xde\xf4\xfb\x01\x08\x
97\x08a\xde\x89\x07\x025\x02<\xaa,\x07\x8b'\xa7')%\xd0_\x1c7\Y\x0d\xf4f\x01b\x98"
\x90f\x9d0xf77h\xec\x1f\xbc\x066\x9b\x92m~\x15\x1d\xdf\x04dp'
waiting for a connection
^CTraceback (most recent call last):
  File "server.py", line 159, in <module>
    File "server.py", line 114, in main
      try:
        File "/Users/parkereischen/anaconda3/lib/python3.6/socket.py", line 205, in ac
cept
      fd, addr = self._accept()
KeyboardInterrupt
parkers-MacBook-Pro:3403-Project3 parkereischen$ python server.py
starting up on localhost port 10001
waiting for a connection
connection from ('127.0.0.1', 50545)
waiting for a connection
```

