



黑客派

Java 基础 4 网络编程 TCP 的 socket 收发

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原文链接: <https://hacpai.com/article/1507828062672>

来源网站: [黑客派](#)

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<p>基于 TCP (面向连接) 的 socket 编程
 例子: 一个客户端作 一个服务端</p>
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<!-- 黑客派PC帖子内嵌-展示 -->

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data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></in
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<p>客户端发送数据至服务端 服务端接收完毕后反馈客户端
 ps: 不同于 UDP 协议 首先需要启
服务端才能够启动服务端 否则抛出 ConnectException 异常
 </p>

<p>客户端思路
 1、创建 socket 对象
 2、获取输入流
 3、获取 socket 读取流

</p>

<pre><code class="highlight-chroma">public class TCPClientDemo {
public static void main(String []args) throws UnknownHostException, IOException{

System.out.println("Client start!!");

//1.创建客户端

Socket socket = new Socket("192.168.219.1",10003);

//2.获取输出流

OutputStream out = socket.getOutputStream();

String str = "hello world?";

out.write(str.getBytes());

}

}

</code></pre>

<p>服务端思路:
 1、创建 socket 对象
 2、获取客户端对象
 3、获取读取流(InputSt
eam)
 4、反馈
 5、关闭服务</p>

<pre><code class="language-public highlight-chroma">public static void main(String []args)
throws UnknownHostException, IOException{

System.out.println("Server Start!!");

ServerSocket serverSocket = new ServerSocket(10003);

Socket socket = serverSocket.accept();

//获取客户端地址

String ip = socket.getInetAddress().getHostAddress();

System.out.println(ip+ "...connected");

InputStream in = socket.getInputStream();

byte[] buf =new byte[1024];

int len =in.read(buf);

String str =new String(buf,0,len);

```
System.out.println(str);  
  
//返回数据给客户端  
OutputStream out =socket.getOutputStream();  
out.write("hello world!".getBytes());  
socket.close();  
serverSocket.close();  
  
}  
}
```

</code></pre>

```
<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></script>
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<script>  
  (adsbygoogle = window.adsbygoogle || []).push({});  
</script>  
<p>结果</p>
```