



链滴

6.Netty 初认识 -- 粘包拆包 --FixedLengthFrameDecoder 固定长度

作者: [289306290](#)

原文链接: <https://ld246.com/article/1583134222891>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

EchoServer.java

```
package club.wujingjian.com.wujingjian.netty.fixedlength.server;

import io.netty.bootstrap.ServerBootstrap;
import io.netty.channel.ChannelFuture;
import io.netty.channel.ChannelInitializer;
import io.netty.channel.ChannelOption;
import io.netty.channel.EventLoopGroup;
import io.netty.channel.nio.NioEventLoopGroup;
import io.netty.channel.socket.SocketChannel;
import io.netty.channel.socket.nio.NioServerSocketChannel;
import io.netty.handler.codec.FixedLengthFrameDecoder;
import io.netty.handler.codec.string.StringDecoder;
import io.netty.handler.logging.LogLevel;
import io.netty.handler.logging.LoggingHandler;

public class EchoServer {

    public void bind (int port) throws Exception {
        //配置服务端的NIO线程组
        EventLoopGroup bossGroup = new NioEventLoopGroup();
        EventLoopGroup workerGroup = new NioEventLoopGroup();

        try {
            ServerBootstrap b = new ServerBootstrap();
            b.group(bossGroup, workerGroup)
                .channel(NioServerSocketChannel.class)
                .option(ChannelOption.SO_BACKLOG, 100)
                .handler(new LoggingHandler(LogLevel.INFO))
                .childHandler(new ChannelInitializer<SocketChannel>() {
                    @Override
                    protected void initChannel(SocketChannel socketChannel) throws Exception {
                        socketChannel.pipeline().addLast(new FixedLengthFrameDecoder(20));
                        socketChannel.pipeline().addLast(new StringDecoder());
                        socketChannel.pipeline().addLast(new EchoServerHandler());
                    }
                });
            //绑定端口,同步等待成功
            ChannelFuture f = b.bind(port).sync();
            //等待服务端监听端口关闭
            f.channel().closeFuture().sync();
        } finally {
            bossGroup.shutdownGracefully();
            workerGroup.shutdownGracefully();
        }
    }

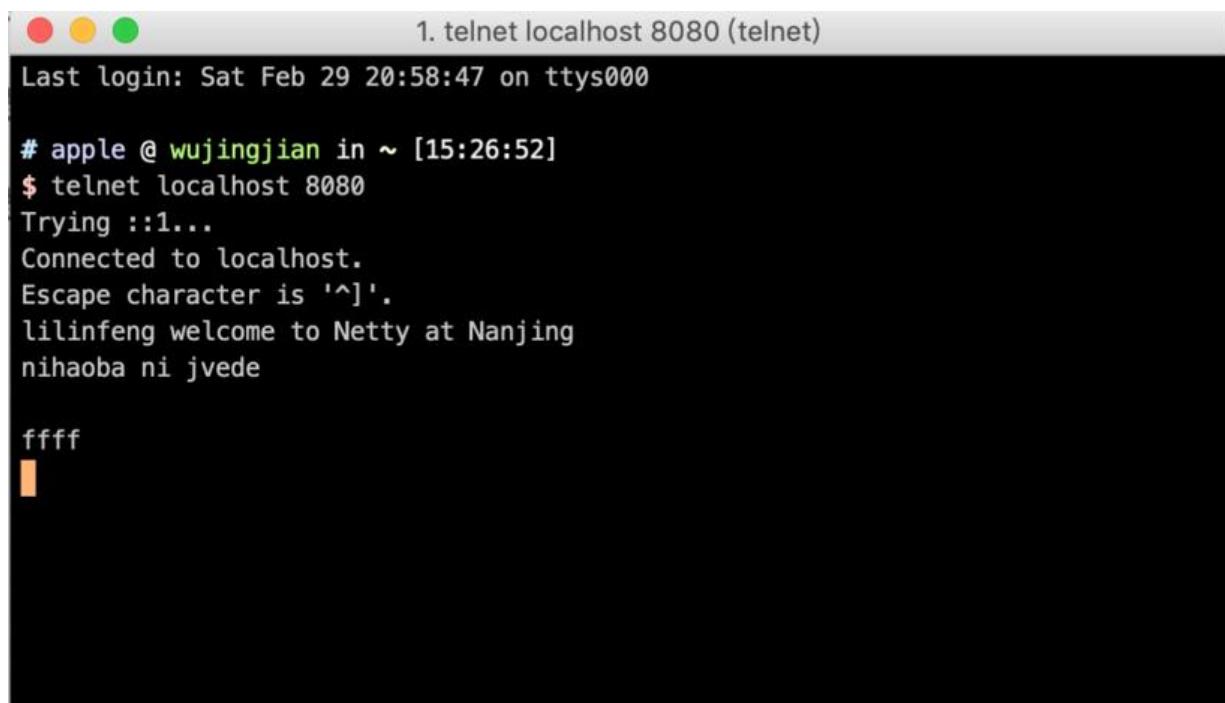
    public static void main(String[] args) throws Exception {
        int port = 8080;
        if (args != null && args.length > 0) {
            port = Integer.parseInt(args[0]);
        }
    }
}
```

```
        new EchoServer().bind(port);  
    }  
}
```

EchoServerHandler.java

```
package club.wujingjian.com.wujingjian.netty.fixedlength.server;  
  
import io.netty.channel.ChannelHandler;  
import io.netty.channel.ChannelHandlerAdapter;  
import io.netty.channel.ChannelHandlerContext;  
  
@ChannelHandler.Sharable  
public class EchoServerHandler extends ChannelHandlerAdapter {  
  
    @Override  
    public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {  
        System.out.println("Receive client : [" + msg + "]");  
    }  
  
    @Override  
    public void exceptionCaught(ChannelHandlerContext ctx, Throwable cause) throws Exception {  
        cause.printStackTrace();  
        ctx.close();  
    }  
}
```

用命令行Telnet 连接 8080



A terminal window titled "1. telnet localhost 8080 (telnet)". The window shows the following session:

```
Last login: Sat Feb 29 20:58:47 on ttys000  
  
# apple @ wujingjian in ~ [15:26:52]  
$ telnet localhost 8080  
Trying ::1...  
Connected to localhost.  
Escape character is '^]'.  
lilinfeng welcome to Netty at Nanjing  
nihao ba ni jvede  
  
fffff
```

服务端输出如下：



```
三月 02, 2020 3:26:48 下午 io.netty.handler.logging.LoggingHandler channelRegistered  
信息: [id: 0xae0290cc] REGISTERED  
三月 02, 2020 3:26:48 下午 io.netty.handler.logging.LoggingHandler bind  
信息: [id: 0xae0290cc] BIND: 0.0.0.0/0.0.0.0:8080  
三月 02, 2020 3:26:48 下午 io.netty.handler.logging.LoggingHandler channelActive  
信息: [id: 0xae0290cc, /0:0:0:0:0:0:0:8080] ACTIVE  
三月 02, 2020 3:27:05 下午 io.netty.handler.logging.LoggingHandler channelRead  
信息: [id: 0xae0290cc, /0:0:0:0:0:0:0:8080] RECEIVED: [id: 0x60b383e9, /0:0:0:0:0:0:1:64549 => /0:0:0:0:0:0:1:8080]  
Receive client : [lilinfeng welcome to]  
Receive client : [ Netty at Nanjing  
n]  
Receive client : [ihaoba ni jvede  
f]
```