



链滴

Spring Websocket 配置

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原文链接: <https://ld246.com/article/1512177127884>

来源网站: [链滴](#)

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

1. 依赖包

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-websocket</artifactId>
  <version>4.1.4.RELEASE</version>
</dependency>
```

2. spring 配置

我关闭了 sockjs，因为我的系统里使用了异步，打开了 `<task:scheduler id="taskScheduler" pool-size="10"/>` 和 `<task:executor id="async_executor" pool-size="10"/>`，开启 sockjs 的时候会 and `sync_executor` 这个 bean 冲突，没有找到解决办法，所以就先关闭了。。

```
<websocket:handlers allowed-origins="*">
  <websocket:mapping path="/ws/user-channel" handler="userMessagesHandler"/>
  <websocket:handshake-interceptors>
    <bean class="com.xx.xx.websocket.interceptor.HandshakeInterceptor"/>
  </websocket:handshake-interceptors>
  <!-- 开启sockjs, 去掉则关闭sockjs -->
  <!--<websocket:sockjs/>-->
</websocket:handlers>
```

3. 拦截器实现

`HandshakeInterceptor` 这个拦截器很简单，我只做了把系统 session 里的用户名取出来放到 `WebSocketSession` 里，以便在服务端主动发消息时，能找到对应用户。

```
public class HandshakeInterceptor extends HttpSessionHandshakeInterceptor {

    @Override
    public boolean beforeHandshake(ServerHttpRequest request,
        ServerHttpResponse response, WebSocketHandler wsHandler,
        Map<String, Object> attributes) throws Exception {
        // 解决The extension [x-webkit-deflate-frame] is not supported问题
        if (request.getHeaders().containsKey("Sec-WebSocket-Extensions")) {
            request.getHeaders().set("Sec-WebSocket-Extensions",
                "permessage-deflate");
        }
        if (request instanceof ServletServerHttpRequest) {
            ServletServerHttpRequest servletRequest = (ServletServerHttpRequest) request;
            HttpSession session = servletRequest.getServletRequest().getSession(false);
            if (session != null) {
                //使用userName区分WebSocketHandler, 以便定向发送消息
                User user = (User) session.getAttribute(Constants.SessionAttr.USER.getValue());
                String userName = user.getLoginName();
                attributes.put(WebSocketEndPoint.WEBSOCKET_USERNAME, userName);
            }
        }
        return super.beforeHandshake(request, response, wsHandler, attributes);
    }
}
```

```

@Override
public void afterHandshake(ServerHttpRequest request,
    ServerHttpResponse response, WebSocketHandler wsHandler,
    Exception ex) {
    super.afterHandshake(request, response, wsHandler, ex);
}
}

```

4. 消息处理类实现

`UserMessagesHandler` 是 websocket 消息处理类。

其中 `afterConnectionEstablished` 方法主要是将请求 session 缓存到 `CopyOnWriteArraySet`。这有个特殊处理，如果 sessionId 已存在缓存里，则将之前是连接关闭，并将之移出 `CopyOnWriteArraySet`。

`sendMessageToUser` 方法是发送消息到具体用户的方法。

```

@Component
public class UserMessagesHandler implements WebSocketHandler {

    private static final Logger logger = LoggerFactory.getLogger(UserMessagesHandler.class);

    public static final String WEBSOCKET_USERNAME = "WS_USERNAME";
    public static final String SESSION_ID_ATTRIBUTE = "HTTP.SESSION.ID";

    // private static final ArrayList<WebSocketSession> users;

    public static CopyOnWriteArraySet<WebSocketSession> users = new CopyOnWriteArraySet<WebSocketSession>();

    @Resource
    private UserService userService;
    @Resource
    private UserNoticeDAO userNoticeDAO;

    @Override
    // @Transactional(readOnly = true)
    public void afterConnectionEstablished(WebSocketSession session) {
        try {
            String sessionId = (String) session.getAttributes().get(SESSION_ID_ATTRIBUTE);
            if (StringUtils.hasText(sessionId)) {
                for (WebSocketSession user : users) {
                    if (sessionId.equals(user.getAttributes().get(SESSION_ID_ATTRIBUTE))) {
                        user.close(new CloseStatus(CloseStatus.SESSION_NOT_RELIABLE.getCode(), "Multiple websocket connect"));
                        users.remove(user);
                    }
                }
            }
            logger.debug("connect to the websocket success.....");
            users.add(session);
        } catch (Exception e) {

```

```

        e.printStackTrace();
    }
}

@Override
public void handleMessage(WebSocketSession session, WebSocketMessage<?> message)
throws Exception {

    //sendMessageToUsers();
    TextMessage returnMessage = new TextMessage(message.getPayload()+" received at se
ver");
    //    session.sendMessage(returnMessage);
}

@Override
public void handleTransportError(WebSocketSession session, Throwable exception) throws
exception {
    if(session.isOpen()){
        session.close();
    }
    logger.debug("websocket connection closed.....");
    users.remove(session);
}

@Override
public void afterConnectionClosed(WebSocketSession session, CloseStatus closeStatus) thr
ws Exception {
    logger.debug("websocket connection closed.....");
    users.remove(session);
}

@Override
public boolean supportsPartialMessages() {
    return false;
}

/**
 * 给所有在线用户发送消息
 *
 * @param message
 */
public void sendMessageToUsers(TextMessage message) {
    for (WebSocketSession user : users) {
        try {
            if (user.isOpen()) {
                user.sendMessage(message);
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

/**

```

```
* 给某个用户发送消息
*
* @param userName
* @param message
*/
public void sendMessageToUser(String userName, TextMessage message) {
    for (WebSocketSession user : users) {
        if (user.getAttributes().get(WEBSOCKET_USERNAME).equals(userName)) {
            try {
                if (user.isOpen()) {
                    user.sendMessage(message);
                }
            } catch (IOException e) {
                e.printStackTrace();
            }
            break;
        }
    }
}
```