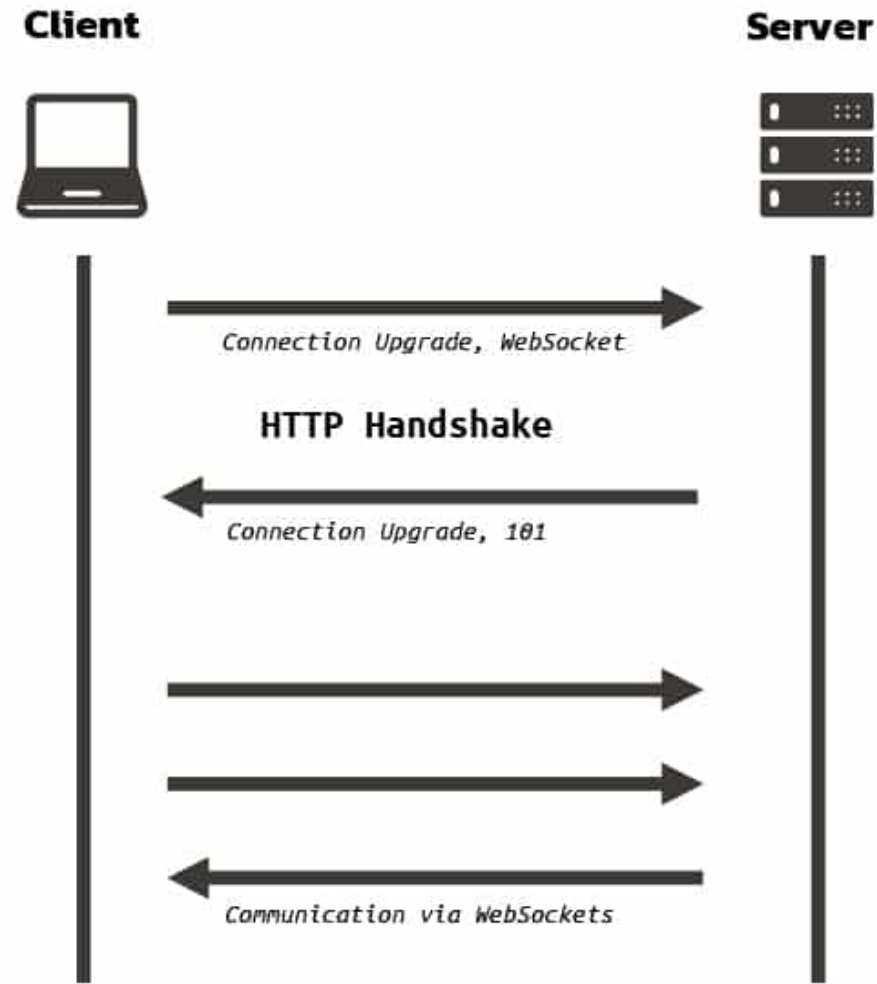


SpringBoot WebSocket

SpringBoot WebSocket (STOMP over WebSocket)

SpringBoot WebSocket



SpringBoot WebSocket

Configuration

SpringBoot WebSocket

org.springframework.web.socket.config.annotation.AbstractWebSocketMessageBrokerConfigurer

```
@Configuration
@EnableWebSocketMessageBroker
@Order(Ordered.HIGHEST_PRECEDENCE + 50)
public class WebSocketConfig extends AbstractWebSocketMessageBrokerConfigurer {

    @Bean
    @Primary
    public SimpUserRegistry userRegistry() {
        return userRegistry;
    }

    @Bean
    @Primary
    public UserDestinationResolver userDestinationResolver() {
        return resolver;
    }

    @Bean(autowire = Autowire.BY_TYPE)
    public BizChannelInterceptorAdapter bizChannelInterceptorAdapter() {
        return new BizChannelInterceptorAdapter();
    }

    @Override
    public void configureMessageBroker(MessageBrokerRegistry config) {
        config.enableSimpleBroker("/topic");
        config.setApplicationDestinationPrefixes("/message");
    }
```

1

2

- 1) WebSocketMessageBroker 활성화
- 2) 웹소켓 Broker 설정 및 메시지 URI Prefix 설정

SpringBoot WebSocket

Interceptor

SpringBoot WebSocket

org.springframework.messaging.support.ChannelInterceptorAdapter

```
@Override
public Message<?> preSend(Message<?> message, MessageChannel channel) {
    StompHeaderAccessor accessor = MessageHeaderAccessor.getAccessor(message, StompHeaderAccessor.class);
    ...
}
```

1

```
@Override
public void postSend(Message<?> message, MessageChannel channel, boolean sent) {
    if (StompCommand.CONNECT.equals(accessor.getCommand())) {
    } else if (StompCommand.SUBSCRIBE.equals(accessor.getCommand())) {
    } else if (StompCommand.UNSUBSCRIBE.equals(accessor.getCommand())) {
    } else if (StompCommand.DISCONNECT.equals(accessor.getCommand())) {
    }
    ...
}
```

2

- 1) 웹소켓 채널 이벤트 preSend 처리
- 2) 웹소켓 채널 이벤트 postSend 처리

SpringBoot WebSocket

Controller

SpringBoot WebSocket

org.springframework.messaging.handler.annotation.MessageMapping

```
@Controller
public class ActivityWebSocketController {

    @MessageMapping("/activities/add") 1
    public void addActivity(SimpMessageHeaderAccessor accessor, ActivityStream activity) throws Exception {
        LOGGER.debug("User({}, {}) activity type : {}, activity received : {}",
            accessor.getUser().getName(), accessor.getSessionId(), activity.getType(), activity.getObject());

        activityStreamService.addActivity(activity, accessor.getUser());
    }
}
```

1) 웹소켓을 통한 메시지 수신

SpringBoot WebSocket

Push

SpringBoot WebSocket

```
org.springframework.messaging.simp.SimpMessageHeaderAccessor  
org.springframework.messaging.simp.SimpMessageSendingOperations
```

```
private SimpMessageSendingOperations messagingTemplate;
```

```
@Autowired  
public void setMessagingTemplate(SimpMessageSendingOperations messagingTemplate) {  
    this.messagingTemplate = messagingTemplate;  
}
```

```
messagingTemplate.convertAndSend(topicUri, GlobalObjectMapper.writeValueAsString(serializableResponse));
```

1A

```
public class WebSocketUtils {
```

```
    public static void sendMessage(SimpMessageSendingOperations messagingTemplate, String user, String destination, Object payload) {  
        messagingTemplate.convertAndSendToUser(user, destination, payload, createHeaders(user));  
    }
```

1B

```
    private static MessageHeaders createHeaders(String sessionId) {  
        SimpMessageHeaderAccessor headerAccessor = SimpMessageHeaderAccessor.create(SimpMessageType.MESSAGE);  
        headerAccessor.setSessionId(sessionId);  
        headerAccessor.setLeaveMutable(true);  
        return headerAccessor.getMessageHeaders();  
    }
```

```
}
```

1) 웹소켓을 통한 메시지 발송