


# Log back custom logger

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 Solution For X\_API\_KEY

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## Solution Approach

please create `MDCXRequestIdLoggingFilter` in there you need to configure the field that is need to be printed in the log file.

```
1 package com.mtn.rule.drools.config;
2
3
4 import jakarta.servlet.*;
5 import jakarta.servlet.http.HttpServletRequest;
6 import jakarta.servlet.http.HttpServletResponse;
7 import org.slf4j.MDC;
8 import org.springframework.stereotype.Component;
9
10 import java.io.IOException;
11 import java.util.Objects;
12
13 @Component
14 public class MDCXRequestIdLoggingFilter implements Filter {
15     /**
16      * @param filterConfig
17      * @throws ServletException
18      */
19     @Override
20     public void init(FilterConfig filterConfig) throws ServletException {
21         Filter.super.init(filterConfig);
22     }
23     /**
24      * @param servletRequest
25      * @param servletResponse
26      * @param filterChain
27      * @throws IOException
28      * @throws ServletException
29      */
30     @Override
31     public void doFilter
32     (ServletRequest servletRequest, ServletResponse servletResponse, FilterChain filterChain)
33         throws IOException, ServletException {
34         if (servletRequest instanceof HttpServletRequest httpServletRequest
35             && servletResponse instanceof HttpServletResponse httpServletResponse) {
36
37             var x_api_key = "";
38             if (!Objects.isNull(httpServletRequest.getHeader("x_api_key")))
39                 x_api_key = httpServletRequest.getHeader("x_api_key");
40             MDC.put("x_api_key", x_api_key);
41             httpServletRequest.setAttribute("x_api_key", x_api_key);
42         }
43     }
44 }
```

```

43
44     filterChain.doFilter(servletRequest, servletResponse);
45 }
46 /**
47  *
48  */
49 @Override
50 public void destroy() {
51     Filter.super.destroy();
52 }
53 }
54
55

```

Add that configuration in

```

"@version" : "1",
"@type" : "access",
"client-host" : "%clientHost",
"remote-user" : "%user"
"x-api-key": "%reqAttribute{x_api_key}",
"request-message" : "%requestMethod",
"request-url" : "%requestURL"

```

## Test Result:

Log output

```

5 --- [nio-8099-exec-4] [670697373c1261ce4c5950f0fc06ed23-4c5950f0fc06ed23] o.s.web.servlet.DispatcherServlet : Completed 200 OK, headers: {"@version":"1","@type":"access","client-host":"0:0:0:0:0:0:1","remote-user":"","request-message":"POST","x-api-key":"4313414141","request-url":"/api/v1/city"}

```

Name	Description
transactionId * required string (header)	1314141
x_api_key * required string (header)	4313414141
Request body required	
<div>application/json</div> <pre> {   "name": "CITY",   "channelCode": "A" } </pre>	

## Source Code:

git link: <https://github.com/indranb13/mtnCommonConnector/tree/development/mtnRuleEngine> Can't find link