

## Logging to ELK

When logging to Kibana the end result I prefer to see looks like this

Timestamp	Message	
May 17, 2020 @ 16:34:47.681	[http-mio-4567-exec-1] DEBUG () o.s.w.f.FrameworkServlet.initWebApplicationContext:374 - Published WebApplicationContext of servlet 'dispatcherServlet' as ServletContext attribute with name [org.springframework.web.servlet.FrameworkServlet.CONTEXT.dispatcherServlet]	0.0.0.0
May 17, 2020 @ 16:34:47.780	[http-mio-4567-exec-1] DEBUG () o.s.w.f.RequestMappingFilter.initContextHolders:114 - Bound request context to thread: org.apache.catalina.connector.RequestFacade#e63f565	0.0.0.0
May 17, 2020 @ 16:34:47.786	[http-mio-4567-exec-1] DEBUG () o.s.w.s.DispatcherServlet.doService:891 - DispatcherServlet with name 'dispatcherServlet' processing GET request for [/sample/exception]	0.0.0.0
May 17, 2020 @ 16:34:47.778	[http-mio-4567-exec-1] DEBUG () o.s.w.s.AbstractHandlerMethodMapping.getHandlerInternal:314 - Looking up handler method for path /exception	0.0.0.0
May 17, 2020 @ 16:34:47.779	[http-mio-4567-exec-1] DEBUG () o.s.w.s.AbstractHandlerMethodMapping.getHandlerInternal:324 - Did not find handler method for [/exception]	0.0.0.0
May 17, 2020 @ 16:34:47.720	[http-mio-4567-exec-1] DEBUG () o.s.w.s.s.AbstractHandlerMethodMapping.getHandlerInternal:314 - Looking up handler method for path /exception	0.0.0.0
May 17, 2020 @ 16:34:47.721	[http-mio-4567-exec-1] DEBUG () o.s.w.s.s.AbstractHandlerMethodMapping.getHandlerInternal:314 - Looking up handler method for path /exception	0.0.0.0
May 17, 2020 @ 16:34:47.721	[http-mio-4567-exec-1] DEBUG () o.s.w.s.s.AbstractHandlerMethodMapping.getHandlerInternal:324 - Did not find handler method for [/exception]	0.0.0.0
May 17, 2020 @ 16:34:47.725	[http-mio-4567-exec-1] DEBUG () o.s.b.f.a.AbstractBeanFactory.doGetBean:254 - Returning cached instance of singleton bean 'sampleController'	0.0.0.0
May 17, 2020 @ 16:34:47.725	[http-mio-4567-exec-1] DEBUG () o.s.w.s.s.AbstractHandlerMethodMapping.getHandlerInternal:321 - Returning handler method [public org.springframework.http.ResponseEntity<java.lang.String> org.apache.logging.log4j.spring.cloud.config.sample.controller.SampleController.exception()]	0.0.0.0
May 17, 2020 @ 16:34:47.727	[http-mio-4567-exec-1] DEBUG () o.s.w.s.s.DispatcherServlet.doDispatch:379 - Last-Modified value for [/sample/exception] is: -1	0.0.0.0
May 17, 2020 @ 16:34:47.753	[http-mio-4567-exec-1] INFO (requestId=f97311-9896-1b4e-88cd-0242ac120806, logId=rdgpcra) o.s.a.i.l.s.c.c.c.SampleController.exception:96 - This is a test java.lang.Throwable: This is a test at org.apache.logging.log4j.spring.cloud.config.sample.controller.SampleController.exception(SampleController.java:93) [classes/:3.0.0-SNAPSHOT] at jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethod):-[:?] at jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62) [-[:?] at jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) [-[:?] at java.lang.reflect.Method.invoke(Method.java:566) [-[:?] at org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:289) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:136) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:180) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:891) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:797) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.mvc.method.annotation.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.DispatcherServlet.doDispatch(Servlet.java:991) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.DispatcherServlet.doService(Servlet.java:925) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:981) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:873) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at javax.servlet.http.HttpServlet.service(HttpServlet.java:635) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:658) [spring-webmvc-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at javax.servlet.http.HttpServlet.service(HttpServlet.java:743) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:231) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:166) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.apache.catalina.core.FilterChain.doFilter(FilterChain.java:52) [tomcat-embed-websocket-8.5.37.jar/:8.5.37] at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:193) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:166) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.springframework.boot.actuate.web.trace.servlet.HttpTraceFilter.doFilterInternal(HttpTraceFilter.java:90) [spring-boot-actuator-2.0.0.RELEASE.jar/:2.0.0.RELEASE] at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:193) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:166) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:193) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:166) [tomcat-embed-core-8.5.37.jar/:8.5.37] at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE] at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107) [spring-web-5.0.12.RELEASE.jar/:5.0.12.RELEASE]	0.0.0.0

When you click on a message you will get a pop-up that contains data like below. Note that I had the Kubernetes attributes specified in the GelfLayout but I didn't run the app under Kubernetes so they are all null.

Log event document details

Actions

Field	Value
@timestamp	2020-05-17T23:34:47.753Z
@version	1
_id	oqT9JHlBehAGWEnBbdIO
_index	app-sampleapp-2020.05.17
application	sampleapp
docker.containerId	3fd7878d538156648798cdc88aa8adca63d35f325eac3d74efbfdddc5d940e8
host	sample
kubernetes.containerId	
kubernetes.containerName	
kubernetes.host	
kubernetes.imageId	
kubernetes.imageName	
kubernetes.labels.app	
kubernetes.labels.pod-template-hash	
kubernetes.master_url	
kubernetes.namespaceId	
kubernetes.namespaceName	
kubernetes.podID	
kubernetes.podIP	
kubernetes.podName	
kubernetes.serviceAccountName	
level	6
levelName	INFO
logger	org.apache.logging.log4j.spring.cloud.config.sample.controller.SampleController
loginId	rgoers
	[http-nio-4567-exec-1] INFO {requestId=fee97311-9896-11ea-88cd-0242ac120006,