How to set External Sumologic for logging using Log4j2 Appender in CH

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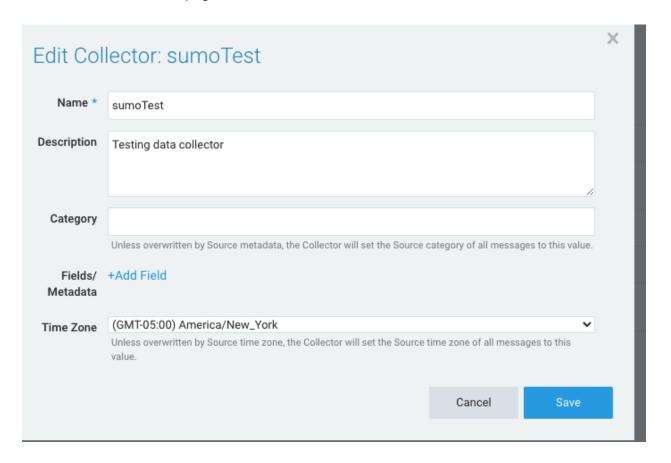
The goal of this document is to provide you with detailed steps of Sumologic logging using Log4j2 Appender and Validate testing using POC.

1. Pre-requisites

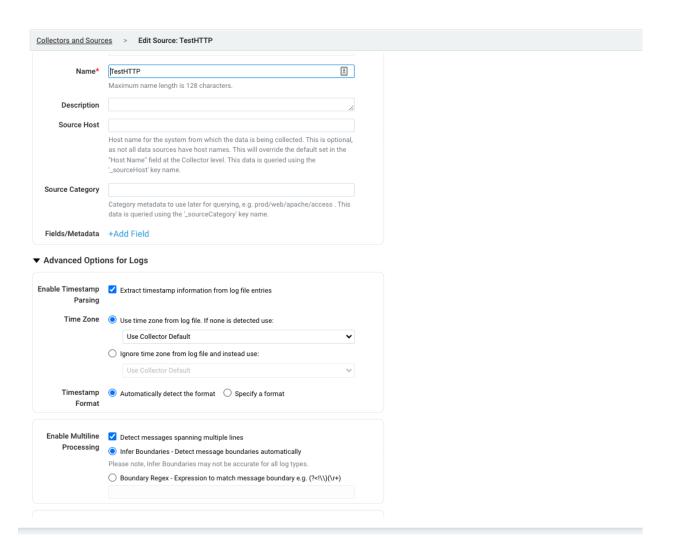
- JDK Version 1.8
- Anypoint Studio 7.x.x
- Sumologic Access
- Anypoint Platform access

2. How to setup HTTP Logs and metrics source on Sumologic

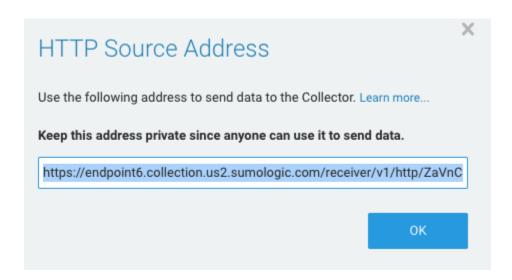
- To configure an HTTP Logs and Metrics Source: In the Sumo Logic web app, select Manage Data > Collection > Collection.
- On the Collectors page, click Add Source next to a Hosted Collector.



- Select HTTP Logs & Metrics.
- Enter a Name to display for the Source in the Sumo web application. The description is optional.



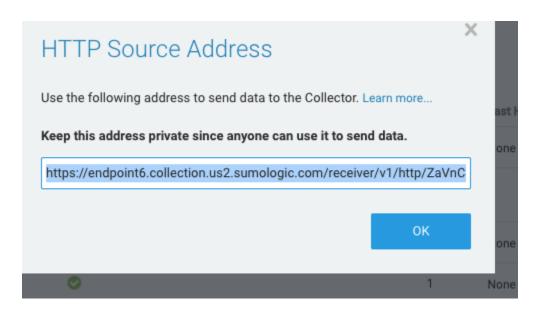
- When you are finished configuring the Source click Save
- Source Host and Source Category, enter any string to tag the output collected from the source



3. Implementing with Log4j2 Appender installation steps

■ Below Dependency library can be added to your project using Maven Central to a POM file

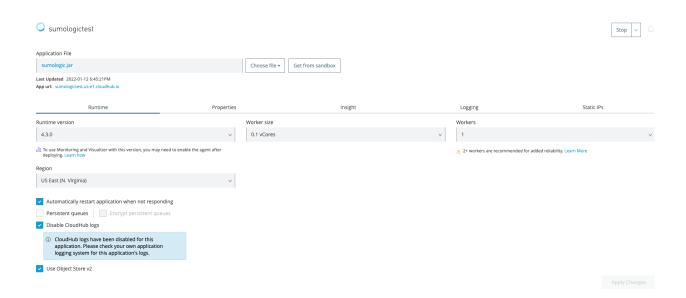
☐ Open the src/main/resources/log4j2.xml and add sumologic appender as below and ensure the URL is HTTP resource URL to hook up with



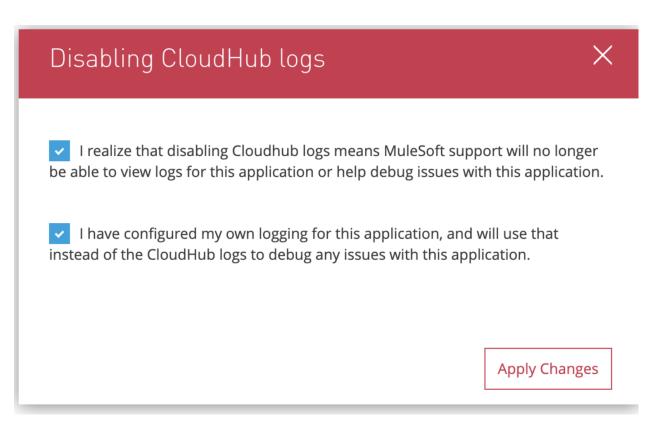
■ Add appender ref as below

4. How to Enable Custom Log4j Configurations in CloudHub

- After you configure the Log4j appender, deploy the application to CloudHub and follow these steps to disable CloudHub logs
- From Anypoint Platform, select Runtime Manager >> Click Applications in the left menu.
- Click the Type column to display the details pane for the application.
- Click Manage Application.
- In the Settings page, click Disable CloudHub logs as below

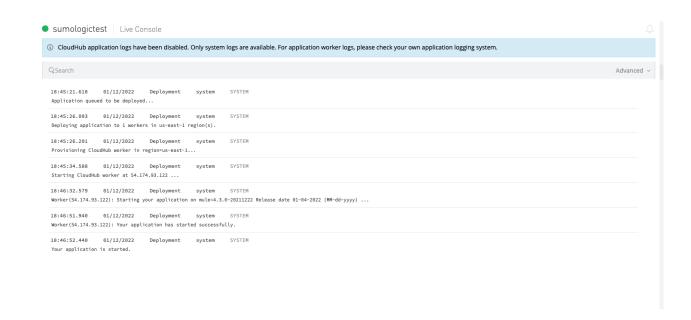


 In the Disabling CloudHub logs confirmation window, select the checkboxes to verify that you want to disable CloudHub logs as below



- Click Apply Changes.
- Review your application settings to ensure they are correct.
- Click Apply Changes to restart your application.

 After your application starts, logs start flowing to your custom Log4j appender and are viewable on your target logging system - Sumologic

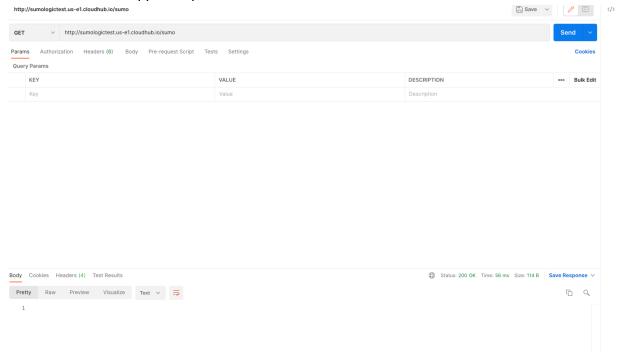


5. Testing and Validaiton of POC

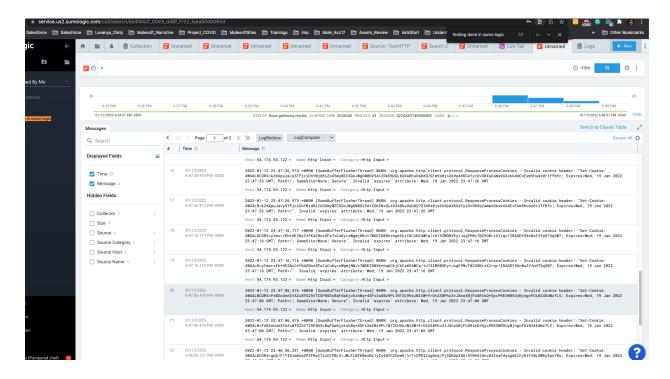
Deploy the app to cloud hub and system deployments logs shown as below



• Test the EP of the app from postman as below



Application logs would be displayed as below in sumologic for successful connection



6. Related Documentation/Helpful Resources

- https://help.sumologic.com/03Send-Data/Sources/02Sources-for-Hosted-Collectors/HTT P-Source
- 2. https://docs.mulesoft.com/runtime-manager/custom-log-appender
- 3. https://github.com/SumoLogic/sumo-log4j-appender