

Sending information to Chukwa

How to push new information to Chukwa

Add a new dataSource (Source Input)

Using Log4J

Chukwa comes with a Log4J Appender. Here the steps that you need to follow in order to use it:

1. Create a log4j.properties file that contains the following information:
log4j.rootLogger=INFO, chukwa
log4j.appender.chukwa=org.apache.hadoop.chukwa.inputtools.log4j.ChukwaDailyRollingFileAppender
log4j.appender.chukwa.File=\${CHUKWA_HOME}/logs/\${RECORD_TYPE}.log
log4j.appender.chukwa.DatePattern='.'yyyy-MM-dd
log4j.appender.chukwa.recordType=\${RECORD_TYPE}
log4j.appender.chukwa.layout=org.apache.log4j.PatternLayout
log4j.appender.chukwa.layout.ConversionPattern=%d{ISO8601} %p %c: %m%n
2. Add these parameters to your java command line:
 - -DCHUKWA_HOME=\${CHUKWA_HOME} -DRECORD_TYPE=<YourRecordType_Here> -Dlog4j.configuration=log4j.properties
 - -DRECORD_TYPE=<YourRecordType_Here> is the most important parameter.
 - You can only store one record type per file, so if you need to split your logs into different record types just create one appender per data type (%T% see hadoop logs4j configuration file)
3. Start your program. Now all your log statements should be written in \${CHUKWA_HOME}/logs/<YourRecordType_Here>.log

Static file like /var/log/messages

1. Edit \${CHUKWA_HOME}/conf/initial_adaptors
2. Add a line similar to this one:
 - add org.apache.hadoop.chukwa.datacollection.adaptor.filetailer.CharFileTailingAdaptorUTF8NewLine [SysLog](#) 0 /var/log/messages 0

This line will automatically register the "CharFileTailingAdaptorUTF8NewLine" adaptor for /var/log/messages

Register a file from another application/language

1. Open a socket from your application to the [ChukwaLocalAgent](#)
2. Write this line to the socket
 - Add org.apache.hadoop.chukwa.datacollection.adaptor.filetailer.CharFileTailingAdaptorUTF8NewLine <RecordType> <StartOffset> <fileName> <StartOffset>
 - Where <RecordType> is the data type that will identify your data
 - Where <StartOffset> is the start offset
 - Where <fileName> is the local path on your machine
3. Close the socket