**EPWF SPLUNK DOCX**

Steps to use the EPWF Splunk Logger code

1. Define Splunk Transaction logger related properties in custom property file.
2. Add new Splunk Logger related properties in Log4j.properties or Log4j.xml file.
3. Load the EPWFTransactionLoggerRegistration class on start up of server.
4. Add Splunk Transaction loggers in applicable classes.
5. Request Splunk team to read the data from generated splunk related log files.
6. Create meaning full Dashboards on Splunk Web deployment.
7. **Define Splunk Transaction logger related properties in custom property file**

* Define new or use the **TransactionLogger.properties** file to define the properties.

#########################################################################################

#EPWF Transactions Logger Details

#########################################################################################

logger.enable=@EPWF\_TRANS\_LOGGER\_ENABLE@

logger.format=@EPWF\_TRANS\_LOGGER\_FORMAT@

logger.mode=@EPWF\_TRANS\_LOGGER\_MODE@

logger.exception=@EPWF\_TRANS\_LOGGER\_EXCEPTION@

logger.threadpool.type=@EPWF\_TRANS\_LOGGER\_THREADPOOL\_TYPE@

logger.threadpool.size=@EPWF\_TRANS\_LOGGER\_THREADPOOL\_SIZE@

logger.params.inputFormat=@EPWF\_TRANS\_LOGGER\_INPUT\_FORMAT@

logger.params.outputFormat=@EPWF\_TRANS\_LOGGER\_OUTPUT\_FORMAT@

logger.params.defaultFormat=@EPWF\_TRANS\_DEFAULT\_FORMAT@

#########################################################################################

* Override the @PROPERTIES@ in different environment files according to your requirement.
* Example below is for PRODUCTION ENV

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#EPWF Transactions Logger Details

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EPWF\_TRANS\_LOGGER\_ENABLE=TRUE

EPWF\_TRANS\_LOGGER\_FORMAT=JSON

EPWF\_TRANS\_LOGGER\_MODE=ASYNC

EPWF\_TRANS\_LOGGER\_EXCEPTION=PRINT

EPWF\_TRANS\_LOGGER\_THREADPOOL\_TYPE=FIXED

EPWF\_TRANS\_LOGGER\_THREADPOOL\_SIZE=50

EPWF\_TRANS\_LOGGER\_INPUT\_FORMAT=

EPWF\_TRANS\_LOGGER\_OUTPUT\_FORMAT=

EPWF\_TRANS\_LOGGER\_START\_TAG=

EPWF\_TRANS\_LOGGER\_END\_TAG=

EPWF\_TRANS\_LOGGER\_EXCEPTION\_FORMAT=CSV

EPWF\_TRANS\_DEFAULT\_FORMAT=CSV

1. **Add new Splunk Logger related properties in Log4j.properties or Log4j.xml file**

* Below is the example for Log4j.properties file.

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## EP Workflow Splunk Loggings Setup

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log4j.logger.com.qwest.common.logger.JSONLoggerUtil=DEBUG,JSONLogger

log4j.logger.com.qwest.common.logger.CSVLoggerUtil=DEBUG,CSVLogger

log4j.logger.com.qwest.common.logger.LoggerExceptionUtil=DEBUG,LoggerException

# Splunk JSON log messages to a JSON log file

log4j.appender.JSONLogger=org.apache.log4j.RollingFileAppender

log4j.appender.JSONLogger.File=logs/trans-json.rlog

log4j.appender.JSONLogger.MaxFileSize=10000KB

log4j.appender.JSONLogger.MaxBackupIndex=1

log4j.appender.JSONLogger.layout=org.apache.log4j.PatternLayout

log4j.appender.JSONLogger.layout.ConversionPattern=%m%n

log4j.appender.JSONLogger.ImmediateFlush=true

log4j.appender.JSONLogger.Threshold=debug

# Splunk CSV log messages to a CSV log file

log4j.appender.CSVLogger=org.apache.log4j.RollingFileAppender

log4j.appender.CSVLogger.File=logs/trans-csv.rlog

log4j.appender.CSVLogger.MaxFileSize=10000KB

log4j.appender.CSVLogger.MaxBackupIndex=1

log4j.appender.CSVLogger.layout=org.apache.log4j.PatternLayout

log4j.appender.CSVLogger.layout.ConversionPattern=%m%n

log4j.appender.CSVLogger.ImmediateFlush=true

log4j.appender.CSVLogger.Threshold=debug

# Splunk Error messages to a error log file

log4j.appender.LoggerException=org.apache.log4j.RollingFileAppender

log4j.appender.LoggerException.File=logs/trans-error.rlog

log4j.appender.LoggerException.MaxFileSize=10000KB

log4j.appender.LoggerException.MaxBackupIndex=1

log4j.appender.LoggerException.layout=org.apache.log4j.PatternLayout

log4j.appender.LoggerException.layout.ConversionPattern=%m%n

log4j.appender.LoggerException.ImmediateFlush=true

log4j.appender.LoggerException.Threshold=debug

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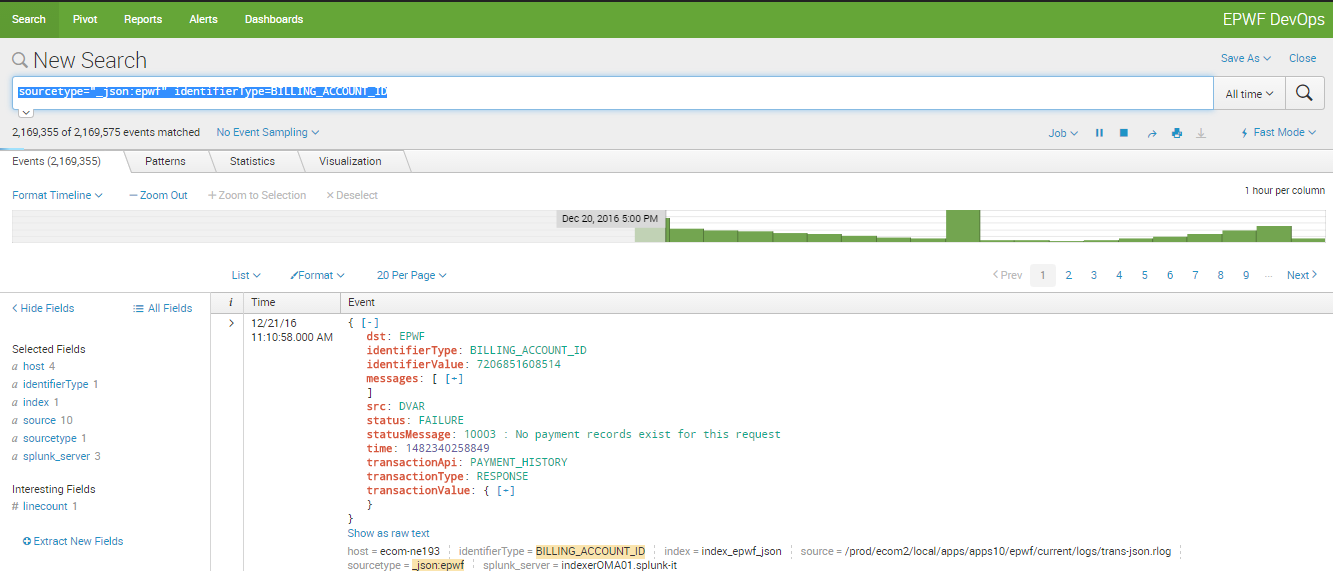
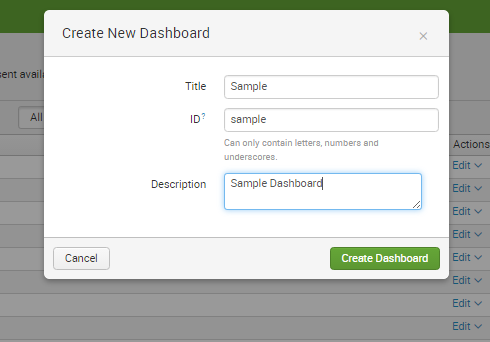
1. **Load the EPWFTransactionLoggerRegistration class on start up of server**

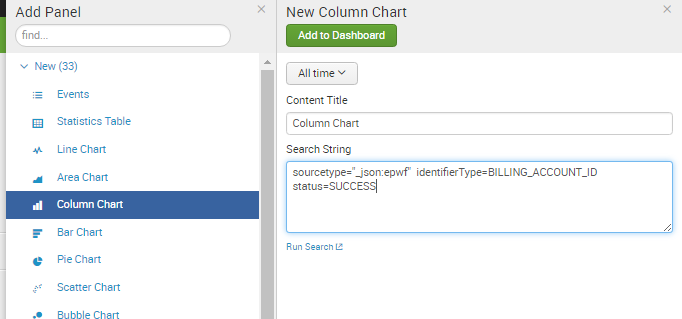
* Register or load the **EPWFTransactionLoggerRegistration** class on start up of server.
* Make sure all the properties from **TransactionLogger.properties** are loaded or initialized properly.
* Make sure Multi-Threading mode is enabled properly.

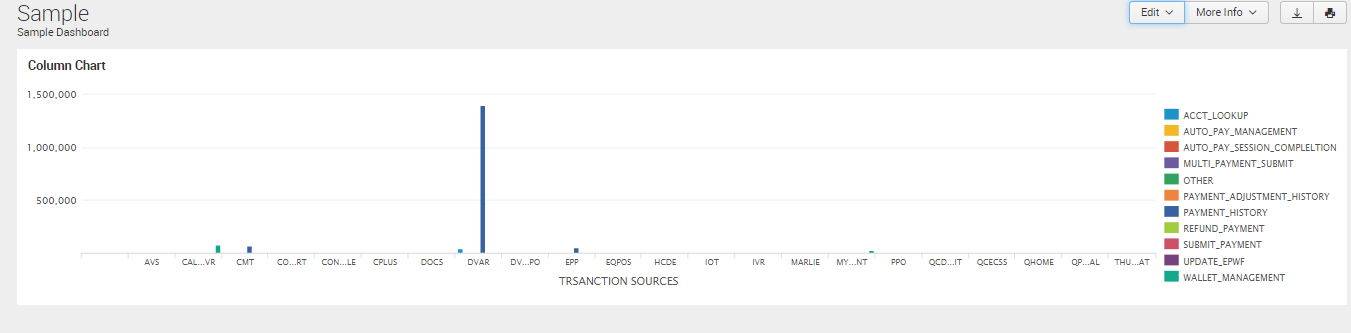
1. **Add Splunk Transaction loggers in applicable classes**
   * Get the Transaction Logger Instance by passing CLASS, FORMAT and MODE from calling class.
   * Call the log method of Logger interface by passing all the required parameters according to your requirement.
   * Make sure you are passing proper inputs to log method.
2. **Request Splunk team to read the data from generated splunk related log files**

* Contact Splunk IT team, your Onshore counter parts or leads.

1. **Create meaning full Dashboards on Splunk Web deployment**

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