

Logging PageEvents to Statsd (Datadog)

A possible way to Log User- and Page-Access to statsd is via the Event system - using [Adaptavist's Scriptrunner for Confluence](https://scriptrunner.adaptavist.com/latest/confluence/ConfluenceEventHandlers.html#_collecting_stats), se https://scriptrunner.adaptavist.com/latest/confluence/ConfluenceEventHandlers.html#_collecting_stats

Read [Access Logging in Confluence](#) for good reasons to log via the Event system.



To make this work, the jar file from <https://github.com/datadog/java-dogstatsd-client#java-dogstatsd-client> must be placed under confluence /WEB-INF/lib and Confluence must be restarted. This will load the jar file into the Tomcat.

The script is executed by an Event Handler in Confluence:

- Custom event handler**
Run your own groovy scripts in response to events

Note

An optional note, used only for your reference.

Events

Select the event(s) this code will handle

Script file

Path to the script file accessible on the server

Inline script

Enter your script here

this executes this script for every PageViewEvent:

post.groovy

```
import com.atlassian.confluence.spaces.SpaceManager
import com.atlassian.sal.api.component.ComponentLocator
import com.atlassian.confluence.event.events.content.page.*
import groovy.transform.Field
import com.timgroup.statsd.StatsDClient;
import com.timgroup.statsd.NonBlockingStatsDClient;

def spaceManager = ComponentLocator.getComponent(SpaceManager)
def pageManager = ComponentLocator.getComponent(PageManager)

String userName="Anonymous"
def currentUser = AuthenticatedUserThreadLocal.get()
if (currentUser)
{
    userName=(String)currentUser.name
}

//System.out.println("Start...")

def event = event as PageEvent

def spaceKey = event.page.spaceKey
def pageId = event.page.id as String

//System.out.println("Posting.....")

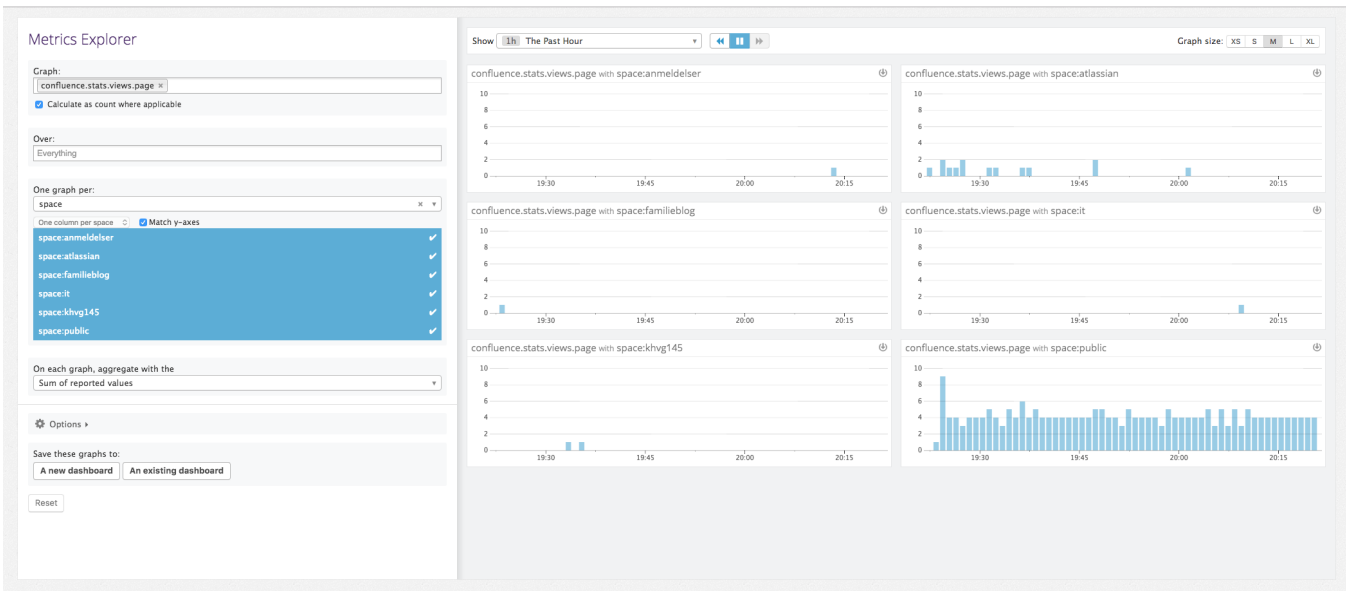
String[] tags = ["user:${userName}", "space:${spaceKey}", "user:${pageId}"]

StatsDClient statsdpage = new NonBlockingStatsDClient("confluence.stats.views","localhost",8125,tags);
statsdpage.incrementCounter("page");

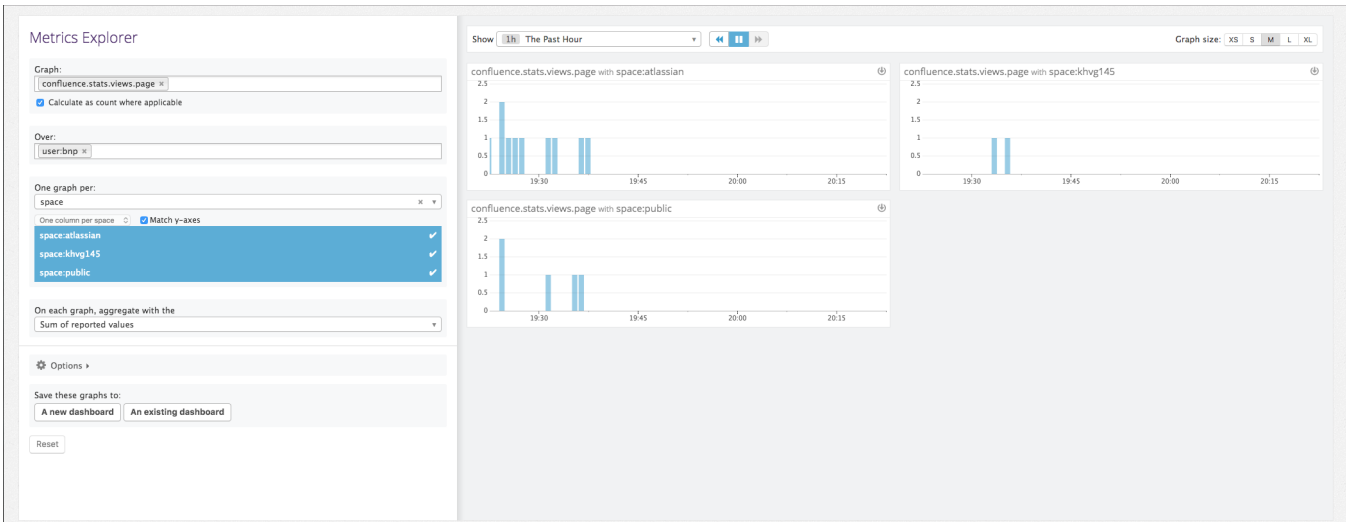
try
{
    //System.out.println("Closing socket");
    statsdpage.stop();
}
catch(Exception ex) {
    //System.out.println("Catching the exception");
}

//System.out.println("End.....")
```

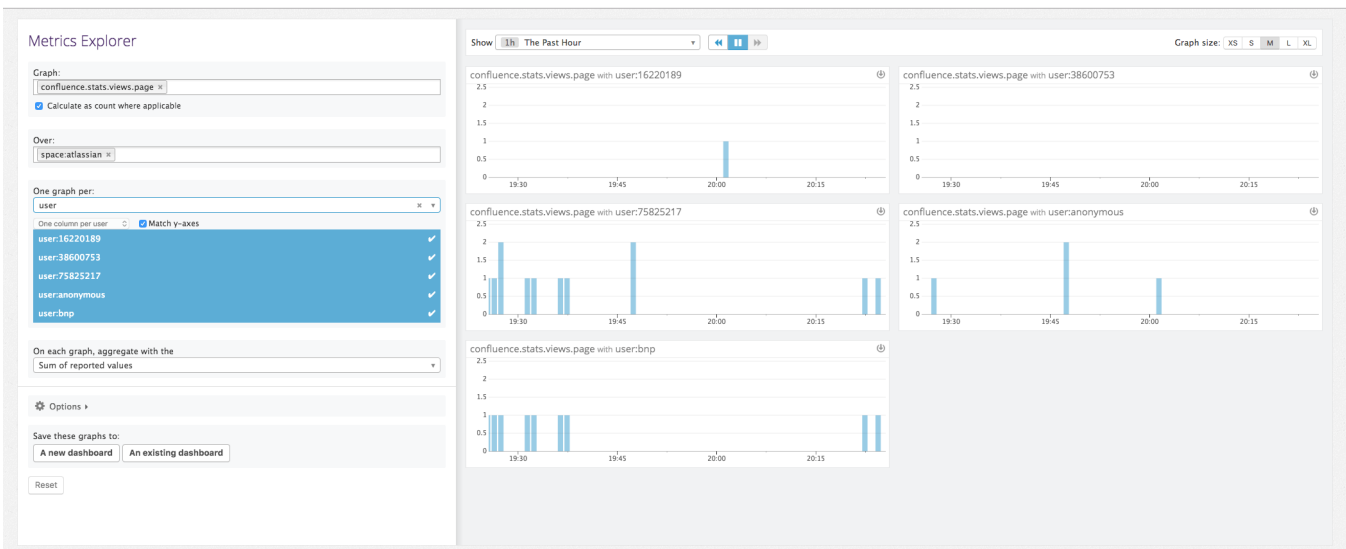
Viewing the data in DataDog - here its all Page Views pr. Space:



Or tracking a single User pr. Space:



Finally - vice versa - Monitoring a single Space for PageViews pr. User:





For some reason, this kills the Confluence Tomcat with "java.io.IOException: Too many open files", so my best guess is that the script is not releasing some resources. Raising limits has not helped...

```
12-Mar-2017 10:39:30.087 SEVERE [http-nio-8090-Acceptor-0] org.apache.tomcat.util.net.
NioEndpoint$Acceptor.run Socket accept failed
java.io.IOException: Too many open files
    at sun.nio.ch.ServerSocketChannelImpl.accept0(Native Method)
    at sun.nio.ch.ServerSocketChannelImpl.accept(ServerSocketChannelImpl.java:422)
    at sun.nio.ch.ServerSocketChannelImpl.accept(ServerSocketChannelImpl.java:250)
    at org.apache.tomcat.util.net.NioEndpoint$Acceptor.run(NioEndpoint.java:682)
    at java.lang.Thread.run(Thread.java:745)
```