SandStorm New Relic Integration

Getting Started Guide

Contents

Preface

This document is designed to help you getting started on using SandStorm (New Relic plugin) for identifying performance bottlenecks during performance test execution. This plug-in allows users to drill down into performance test results and isolate code bottlenecks that impacts performance. It lists the steps to configure plugin in SandStorm and result analysis. Should you have any queries, please write to us at sandStorm@impetus.com.

Application Performance Diagnostics using SandStorm New Relic plugin

SandStorm New Relic integration is used to integrate the performance test execution and diagnostics. It allows user to identify code performance bottlenecks from the performance test results. You need to have the following pre-requisite to use the plug-in.

a) Valid account for SandStorm Cloud application

b) Valid account for New Relic SAAS offering

The steps for analyzing diagnostics information during performance test execution using the plugin are given below.

Step 1) Provide New Relic details to SandStorm

Step 2) Execute scenario and result analysis

Pre-requisite: Register with SandStorm Cloud Application

Register with SandStorm Cloud Application by accessing the URL mentioned below. http://cloud.sandstormsolution.com/sandstorm/registrationForm . The SandStorm Evaluation page appears. Enter the mandatory details. If you are a new user, then select the 'New User' option and enter the required details, and submit the registration form. Once you are registered user with SandStorm Cloud Application, you can login into the application using the credential shared with you over a mail. Please navigate to SandStorm Cloud Application using the given below https://cloud.sandstormsolution.com/sandstorm/login
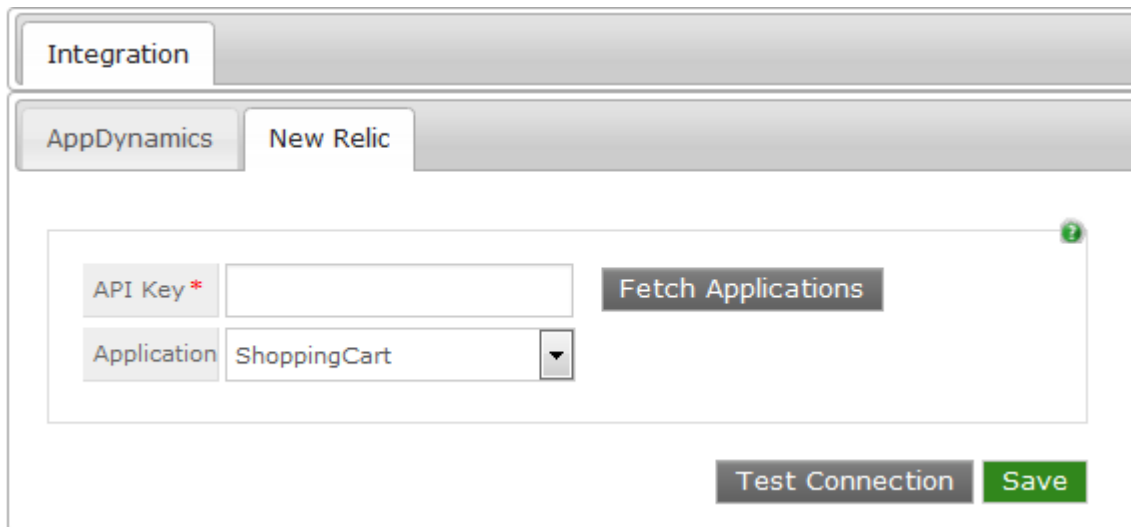
To execute any performance test using SandStorm Cloud Application, you need to create a project and a scenario inside that project.

Once you have the pre-requisites set up you can configure SandStorm New Relic integration.

Step 1: Provide New Relic details to SandStorm

After successful registration with SandStorm Cloud Application, provide the following information related to New Relic in SandStorm Account Settings:

1) New Relic API Key

2) New Relic application (Application in which diagnostic data is stored).

Screen 1: New Relic configuration in SandStorm

Step 2: Execute Scenario and Analyze Results.

1. Design the scenario using SandStorm scenario tab

2. Execute the scenario.

3. After the scenario execution, generate Analysis for the scenario from the Results tab.

4. Click on the New Relic link under Diagnostics header in the result navigation side bar. You can view the details of app-servers in corresponding tab.

| Apdex | Database | Browser Page View | HttpDispatcher |

Name	Score	Frustrated Count	Satisfied Count (s)	Tolerating Count (t)	Count
Apdex	1	4	175000	188	175365
Apdex/Filter/springSecurityFilterChain	1	0	0	0	0
Apdex/JSP/ajax.jsp	1	0	13500	0	13452
Apdex/JSP/index.jsp	1	0	0	0	0
Apdex/JSP/Welcome.jsp	1	0	6730	0	6726
Apdex/Servlet/agentTestConnectionServlet	1	0	2	0	2
Apdex/Servlet/BillingServlet	1	0	6720	10	6726
Apdex/Servlet/default	1	4	128000	153	127794
Apdex/Servlet/jsp	1	0	0	0	0
Apdex/Servlet/Login	1	0	6730	1	6726

Fig 1: SandStorm New Relic Dashboard
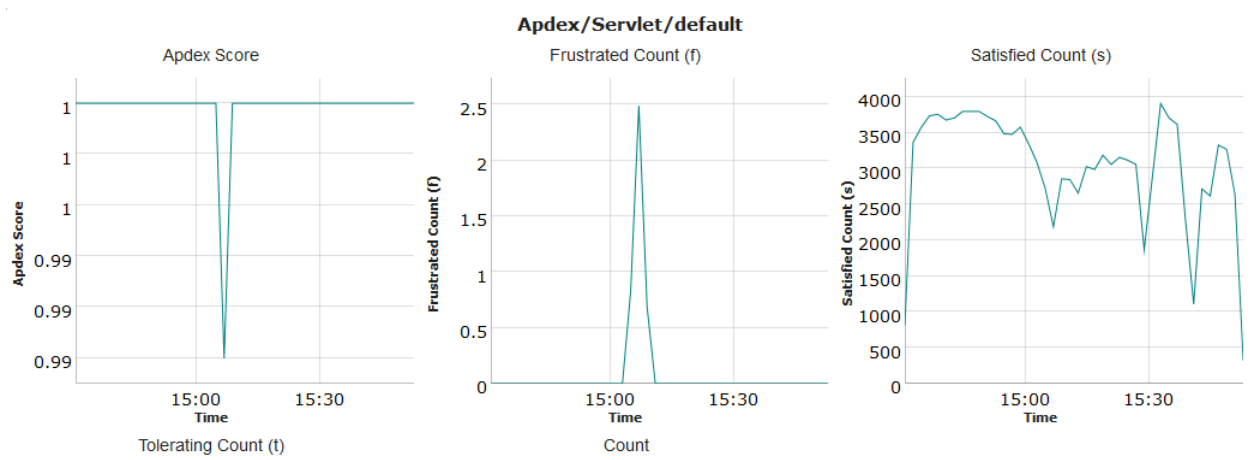
Fig 2: Apdex Drill Down

Name	Max Response Time (in ms)	Requests Per Minute	Average Response Time	Calls Per Minute
Database/allOther	0	0	0	0
Database/allWeb	666	1120	8.84	1120
Database/category/select	213	80.1	1.35	80.1
Database/collations/select	3.6	0.0119	3.6	0.0119
Database/columns/select	0	0	0	0
Database/delete	581	80.1	27	80.1
Database/getConnection	0	0	0	0
Database/insert	666	240	28.5	240
Database/member/select	481	80.1	2.97	80.1
Database/memberpurchase/insert	432	80	28.1	80

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Fig 3: Performance analysis of database transactions

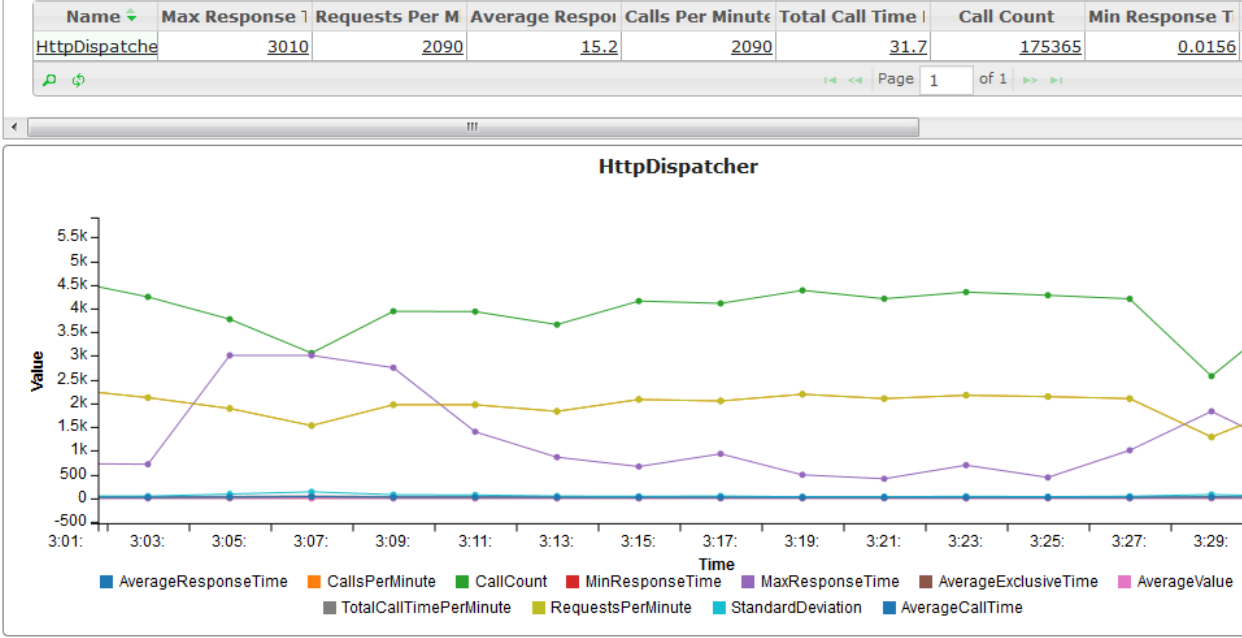| Name ⬍	Max Response T	Requests Per M	Average Respor	Calls Per Minute	Total Call Time I	Call Count	Min Response T
HttpDispatche	3010	2090	15.2	2090	31.7	175365	0.0156

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HttpDispatcher

Fig 4: HttpDispatcher details