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Overview

This document outlines the steps of creating the dashboard on the Dynatrace/APM Web Start client so that we can run REST request against it to download the monitoring metrics.

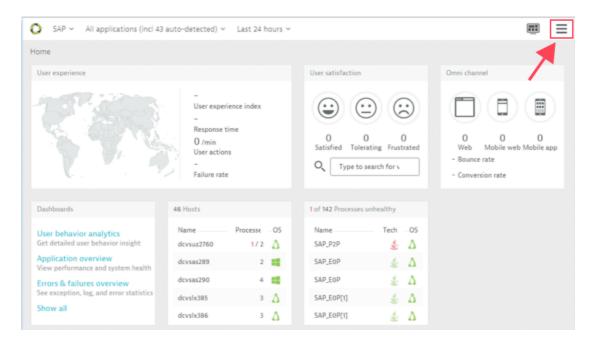
For more details of the Dynatrace/APM REST API, please refer to its online documents:

https://community.dynatrace.com/community/pages/viewpage.action?pa geId=196642651#DashboardsandReporting%28REST%29-GenerateaDashboardReport

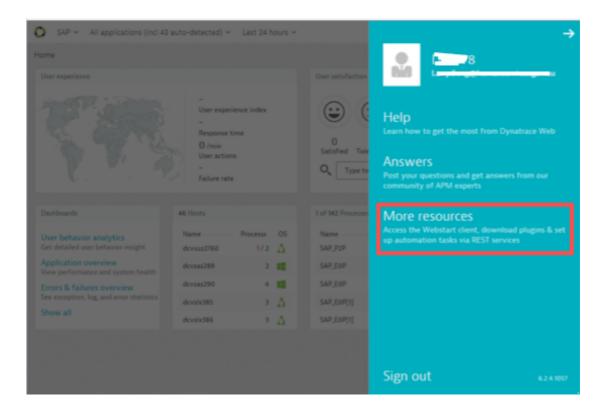
This document is based on Dynatrace/APM 6.2 and Internet Explorer 11.

Steps

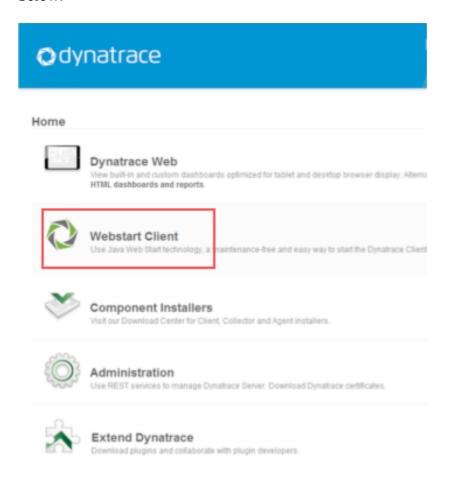
Once you have logged into Dynatrace/APM from the browser, you will see the default page below:



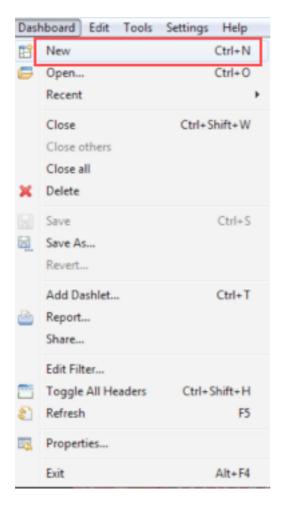
Click the button pointed by the arrow from above, you will get:



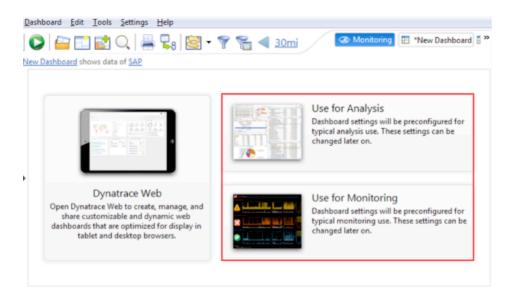
Click the "More resources" from above and then click "Webstart Client" from below.



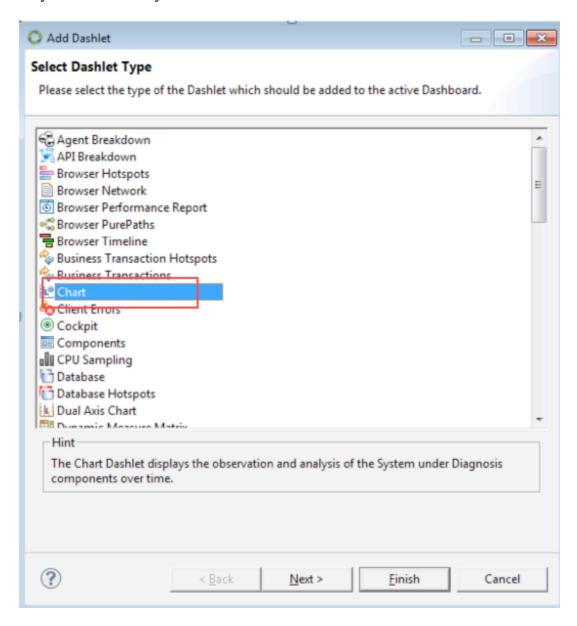
The loading of the Web Start client will take a while and eventually you will get a screen that shows the default page. Click *Dashboard->New* menu as below:



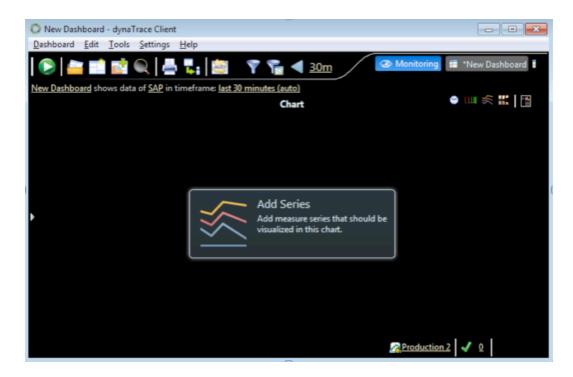
You will be prompted with choices below. Pick either "*Use for Analysis*" or "*Use for Monitoring*" --- I was told they are the same except with different background colors.



You will then be prompted with a choice of *Dashlets*. Pick up the "*Chart*" as we don't care how metrics are presented on the dashboard since this dashboard will only be consumed by the REST clients.

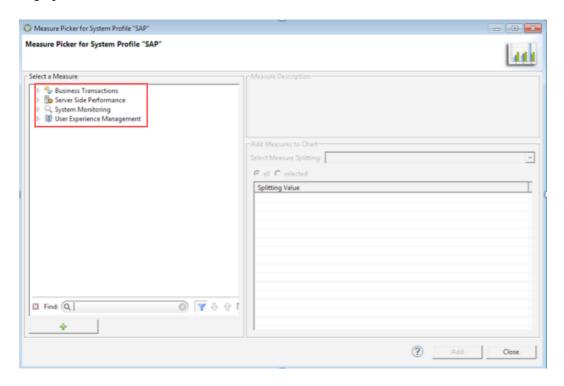


Once you have picked up the "Chart" you will have the button "Add Series" as below ---

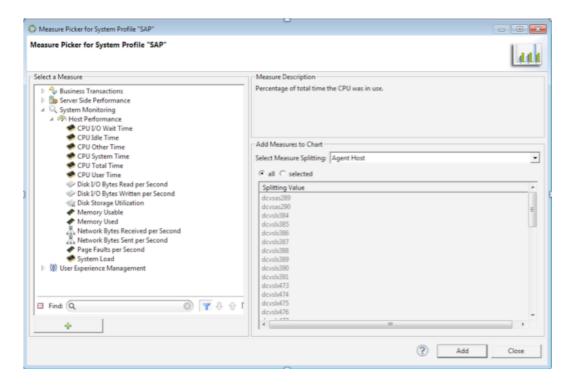


You will then be given the list of "*measures*" to pickup. In this case, we have measures for the SAP monitoring.

Tip: press **Ctr-f** for a search box as showed below:



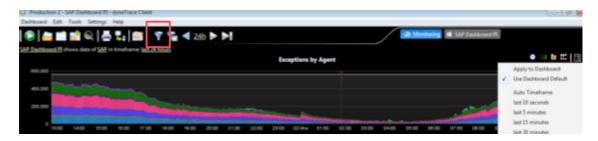
Find and select the metrics you need:



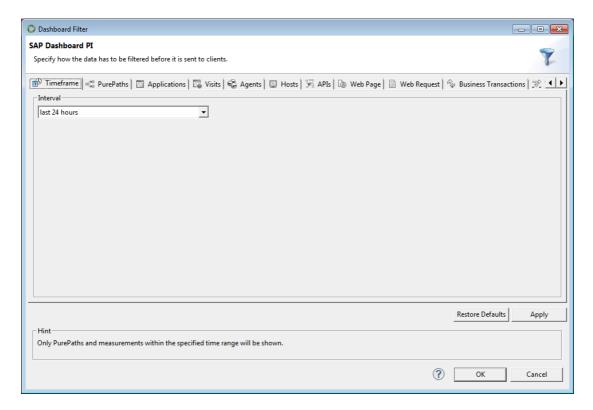
Click "Add" from above and you will get your first chart. Rename it as you wish by right-click on the "Chart" name area.



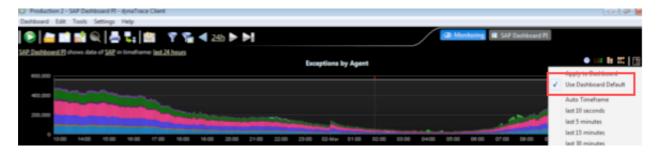
Check the dashboard-wide filter as highlighted in the square below:



Here is the setting works for me. You can also select "auto":



For any individual chart, make sure double check the filter is "*Use Dashboard Default*". **It can cause trouble with the REST call if it's set to other values.**



Next is to define the granularity of the metrics. This is controlled by the chart resolution, as below:



In this case we have set the resolution to 5 mins. Check with your Dynatrace admin for the retention period of any resolution you would select.

Test

Now it's time to test whether you can get the query result back in the XML format. I use the following cURL command (in one line):

curl -k -u my-username:the-password https://dynatrace-host:8021/rest/management/reports/create/Predictive_Insights-BusinessTranx?type=XML\&filter=tf:CustomTimeframe?1456552800**000**:1456556400**000**

Remember to append three zeros (*000*) at the end of the epoch timestamps you use to specify the range.

Logstash

A Logstash input plugin has been created to retrieve the metrics using the dashboard we have created in the previous section. Please find the source file from github:

https://github.com/IBM-ITOAdev/logstash-input-dynatrace_apm