



OpenText Enterprise Performance Engineering

Software version: 26.1-26.3

Quick Start Guide

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Document release date: July 2026

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Welcome

Welcome to the OpenText™Enterprise Performance Engineering Quick Start.

OpenText Enterprise Performance Engineering is a Web-enabled global performance testing tool, designed to streamline the testing process and increase the test efficiency for multiple concurrent performance tests across multiple geographic locations.

This Quick Start is a self-paced guide designed to lead you through the process of creating, running, and analyzing a performance test, and to introduce you to the testing environment.



Note: This guide assumes that your environment has been fully installed and configured, and that a domain and project have been set up. For details, contact your OpenText Enterprise Performance Engineering administrator.

Quick Start lessons

The Quick Start contains the following lessons:

Lesson	Description
"Overview" on page 7	Provides an overview of OpenText Enterprise Performance Engineering and the performance testing applications.
"Creating Vuser scripts" on page 9	Describes the steps involved in recording Vuser scripts using OpenText Virtual User Generator.
"Creating and designing performance tests" on page 15	Describes the steps involved in creating and designing performance tests.
"Running performance tests" on page 23	Describes the steps that are necessary before running a performance test, and how to begin a test run.

Lesson	Description
"Post-run analysis and trending" on page 29	Describes how to analyze test run data using Analysis, and how to view performance improvements and regressions using the Trend Reports feature.

Overview

This lesson provides a brief overview of the Load Testing Application, and of the applications that are involved in the testing process.

Notes:

- The Quick Start describes how to run a performance test with a single host functioning as both a Controller and a load generator (C+LG). However, due to possible heavy load on the Controller and load generator hosts during a performance test, it is best practice to assign these functions to separate host machines.
- Ensure that the latest standalone versions of OpenText Virtual User Generator (VuGen) and Analysis are installed on your system.

In this lesson you will learn about:

- ["Performance testing process" below](#)
- ["Performance testing applications" on the next page](#)

Performance testing process

Using OpenText Enterprise Performance Engineering, you create **performance tests** in which you define the events that occur during a testing session. During a test, human users are replaced at physical machines with virtual users, or **Vusers**. These Vusers create load on your system by emulating actions of typical users in a repeatable and predictable manner.

What is the testing process?

The testing process consists of the following basic processes:

- **Creating the script.** Capturing typical end-user business processes performed on your application.

- **Designing the performance test.** Setting up the test environment by defining events that occur during the testing session.
- **Preparing to run the performance test.** Adding the performance test to a test set and reserving a timeslot for the test.
- **Running the performance test.** Driving, managing, and monitoring the test.
- **Analyzing the results and viewing performance trends.** Analyzing the performance data generated during the test run, and viewing trending information which identifies performance improvements and regressions over time.

These processes are explained in more detail in the lessons that follow.

Performance testing applications

Each step in the testing process is carried out by one of the performance testing tool components. The components are as follows.

Application	Description
OpenText Virtual User Generator (VuGen)	Creates the script and generates virtual users, or Vusers . VuGen does this by capturing actions that typical end-users would perform on your application, and then records these actions into automated Vuser scripts. These Vuser scripts form the foundation of a performance test.
OpenText Enterprise Performance Engineering	Provides the central console from which you build, manage, and monitor a test.
Analysis	Analyzes the performance test and provides graphs and reports with in-depth performance analysis information. Using these graphs and reports, you can pinpoint and identify the bottlenecks in your application and determine what changes need to be made to your system to improve its performance.

Next steps

- ["Creating Vuser scripts" on the next page](#)

Creating Vuser scripts

This lesson explains the steps involved in recording Vuser scripts using OpenText Virtual User Generator.

This section includes:

- ["Recording Vuser scripts" below](#)
- ["How do I start recording user activity?" below](#)
- ["How do I record a script?" on the next page](#)
- ["How do I view my script?" on page 11](#)
- ["How do I save the script?" on page 14](#)

Recording Vuser scripts

You record Vuser scripts using OpenText Virtual User Generator (VuGen). A Vuser script is a record of a typical end-user business process. VuGen works on a record-and-playback principle.

As you walk through a business process on your application, VuGen records your actions into an automated script which later forms the foundation of the performance test.

How do I start recording user activity?

You begin by opening Vugen and creating a blank script.

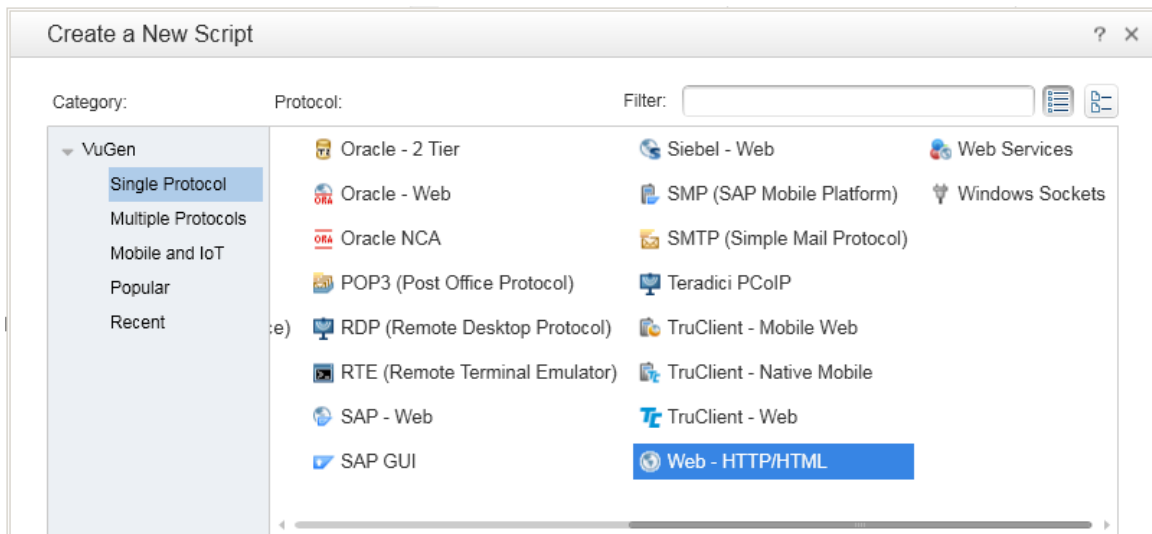
1. Start VuGen.

Double-click the **Virtual User Generator** shortcut icon  on your desktop.

The VuGen Start Page opens.

2. Create a blank Web script.

- a. On the VuGen Start Page toolbar, click the **Add New Script** button . The Create a New Script dialog box opens.



A protocol is the language that your client uses to communicate with the back end of the system.

- b. Make sure the **Category** type is **Single Protocol**. VuGen displays a list of the protocols that are available for a single-protocol script.
- c. From the list of available protocols, select a protocol (example: for a Web-based application, select **Web - HTTP/HTML**) and click **Create**. VuGen creates a blank Vuser script and displays the script in the VuGen Editor.

How do I record a script?

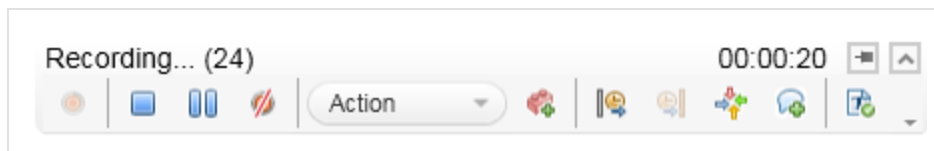
The next stage in creating user emulation is recording the events performed by a real user. In the previous section, you created an empty script. In this section, you will record a script.

Note: The following exercise explains how to record a scripts for a Web-based application (Web - HTTP/HTML).

1. Start recording.

- Click the **Record** button  on the VuGen toolbar. The Start Recording dialog box opens.
- In the **Record into action** box, select **Action**.
- In **Record**, select **Web Browser**.
- In the **URL address** box, enter the URL address on the Web application under test.
- Keep all other default settings.
- Click **Start Recording**. A new web browser opens and displays the Web application under test.

The floating Recording toolbar opens.



2. Record your script.

Navigate through your Web application.

3. Stop recording.

Click the **Stop Recording** button  on the floating toolbar to stop the recording process.

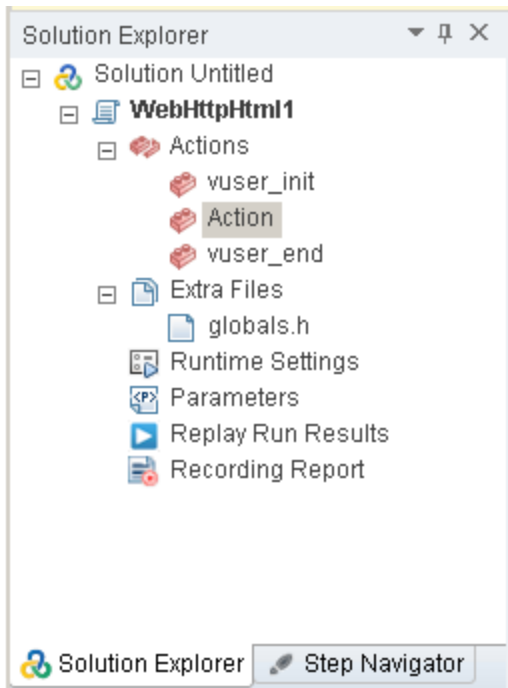
VuGen generates the required code and inserts the code into the Vuser script.

How do I view my script?

VuGen recorded your steps from the moment you clicked the **Start Recording** button to the moment you clicked the **Stop Recording** button. You can now use VuGen to view the script.

1. Display the Solution Explorer tab.

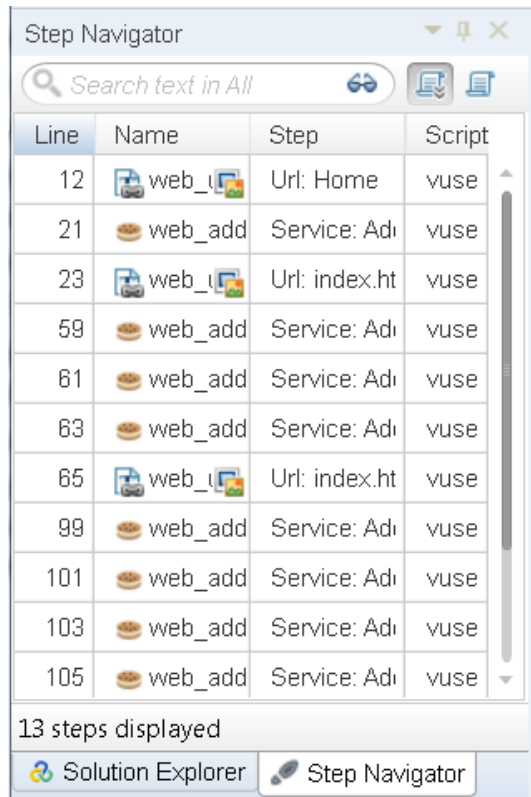
Make sure the **Solution Explorer** tab is selected.



This tab provides you structured access to the different parts of a Vuser script, as well as to a number of files that are associated with the Vuser script.

2. Display the Step Navigator tab.

Click the **Step Navigator** tab.



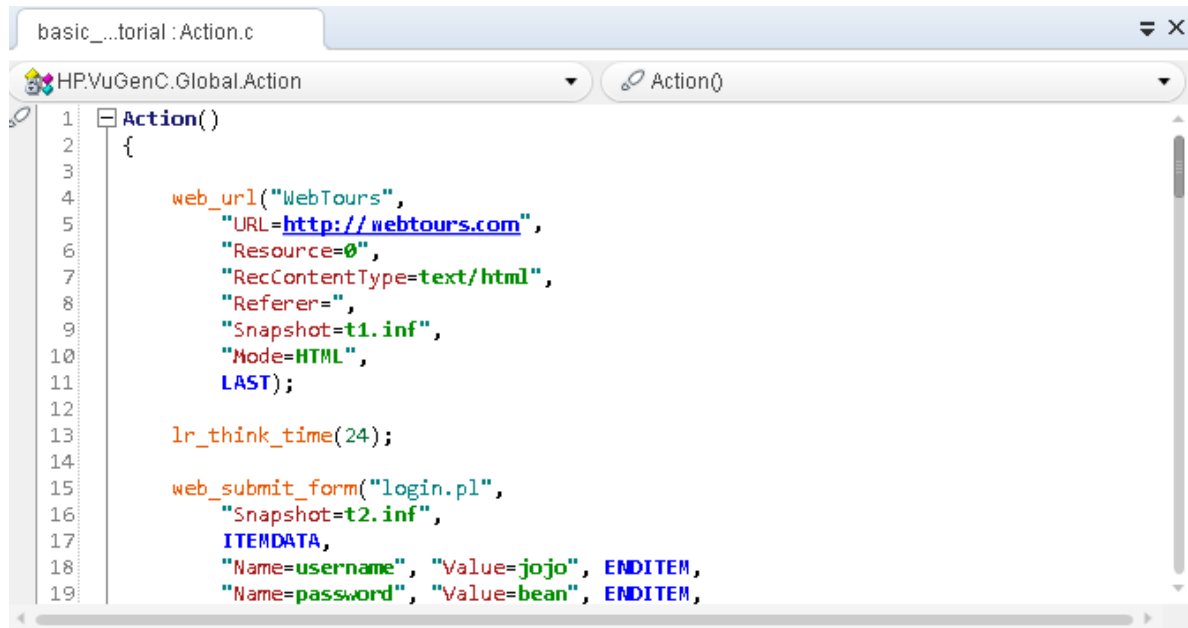
The Step Navigator displays an icon-based view of the script that lists the actions of the Vuser as steps. For each action you performed during recording, VuGen generated a corresponding step in the Step Navigator.

The Step Navigator displays a snapshot icon to indicate that a specific step contains a snapshot.

3. View a step in the VuGen Editor.

Make sure **Tools > Options > Editor > General > Show Class\Function Browser** is selected in the VuGen Editor.

Double-click any step in the Step Navigator to display the corresponding function in the VuGen Editor. The Editor displays a text-based view of the script.



In the Editor, the actions of the Vuser are listed as API functions. VuGen uses color-coding to show the functions and their argument values in the script. You can enter C or API functions, as well as control flow statements, directly into the script.

How do I save the script?

Select **File > SaveScript As** and save the script locally on your desktop. For example, enter Scripts. The script file should be zipped. After you have created your performance test, you will upload the script to OpenText Enterprise Performance Engineering.

Next steps

- ["Creating and designing performance tests" on the next page](#)

Creating and designing performance tests

This lesson explains how to manage test assets in OpenText Enterprise Performance Engineering, and the steps involved in creating and designing a performance test.

In this lesson you will learn about:

- ["Signing in" below](#)
- ["Adding Vuser scripts" on the next page](#)
- ["Monitoring performance tests" on page 17](#)
- ["Creating performance tests" on page 19](#)
- ["Designing performance tests" on page 19](#)

Signing in

You sign in to OpenText Enterprise Performance Engineering as follows.

1. Open your web browser and enter the server URL in the format:

`http://<Server name>/loadtest.`



Note: If more than one server is installed in your system together with a load balancer, access the machine by entering the load balancer's URL. Alternatively, you can also enter the server's defined internal URL.

2. The Sign in window opens.

If OpenText Enterprise Performance Engineering was configured for external authentication (SSO), the **Login** and **Password** fields do not appear in this window and you should be redirected to your identity provider's login screen.

3. In the Sign in page, enter your user name and password assigned to you by your site administrator.

4. Click the **Authenticate** button. Your user name and password are verified and domains and projects you can access are shown.
5. In the **Domain** and **Project** window, select a domain and project. By default, the last domain and project in which you were working are displayed.
6. Click **Sign in**. The Load Testing Application opens.

Next steps

- ["Adding Vuser scripts" below](#)

Adding Vuser scripts

The first step in your test design process is to add your Vuser script to OpenText Enterprise Performance Engineering. Adding the script involves two steps: Creating a scripts folder, and uploading the script to the folder.

How do I upload the Vuser Script?

You upload the script from within OpenText Enterprise Performance Engineering, as follows.

1. Make sure the script is saved locally and is zipped.
2. Click the **Navigation** menu  and select **Test Management > Tests & Scripts**.
3. Create a script folder.
 - a. Select **Subject**.
 - b. Click the **New Folder** button , and specify a name for the folder, for example, *Scripts*.
 - c. Click **OK** to add the folder.
4. On the module toolbar, click the **Upload Script** button . The Upload Scripts dialog box opens.
5. In the **Select Folder** box, select the scripts folder you created above.

6. Click the **Select** button and go to the location of the zipped script file.
7. Click **Upload** to upload the script.

Next steps

- ["Monitoring performance tests" below](#)

Monitoring performance tests

This lesson explains how to use online monitors to monitor performance test runs.

Monitoring overview

You monitor performance test runs using the OpenText Enterprise Performance Engineering online monitors. For example, you use the System Resource monitors to monitor a machine's system resource usage during a performance test and identify server performance bottlenecks.

A primary factor in a transaction's response time is its system resource usage. Using the resource monitors, you can monitor the Windows Resource usage on a machine during a test run, and determine why a bottleneck occurred on a specific machine.

What is a monitor profile?

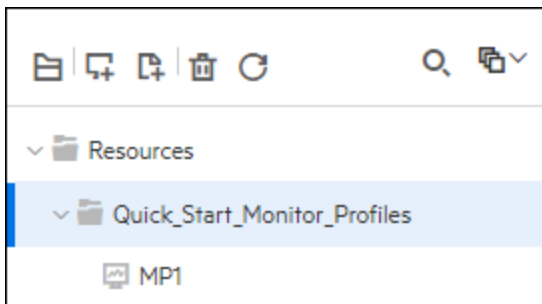
To monitor server resources during the test, you select the type of monitors to run and the servers whose resources you want to monitor. You then add the measurements to monitor for each server. These monitor settings can be saved as a monitor profile which can be used by any performance test in your project.

The following section shows you how to create a monitor profile and how to add a Windows Resource Monitor to it.

How do I create a monitor profile?

You create and configure a monitor profile as follows:

1. Click the **Navigation** menu  and select **Assets > Monitors**.
2. Create a folder for the monitor profile.
3. Select the folder, and click the **New Monitor Profile** button . The New Monitor Profile dialog box opens, enabling you to add a new monitor profile.
4. Select **Monitor Profile**, and enter the required information and click **OK** to add the monitor profile to the folder.



5. In the Monitor Profile page, click the **New Monitor** button . In the Add New Monitor page that opens, you can select the monitors that you want to run.
6. Select the **Windows Resources** monitor type and click **Next**.
7. Enter the server details and then click **Get Counters** to display a list of available metrics and counters.
8. Select the measurements that you want to monitor, and then click the **Add** button  to add the counters to the **Selected Counters** table.
9. Click **Save**. The monitor is added to your monitor profile.

You add the monitor profile to the test as part of the test design process.

Next steps

- ["Creating performance tests" on the next page](#)

Creating performance tests

To create a test, you begin by creating a test folder, and then creating the test and adding it to the folder. In the next section, you will learn how to design the test in the Test Designer.

How do I create a performance test?

You create the test as follows:

1. Click the **Navigation** menu  and select **Test Management > Tests & Scripts**.
2. In the test management tree, select the **Subject** root folder, click the **New Folder** button . Enter a folder name and click **OK**.
3. Select the folder from the tree.
4. Click the **New Test** button . Enter the fields in the Create New Performance Test dialog box.

Next steps

- ["Designing performance tests" below](#)

Designing performance tests

You design your performance test in the Performance Test Designer.

How do I open the Performance Test Designer?

You open the test designer as follows:

1. Click the **Navigation** menu  and select **Test Management > Tests & Scripts**.
2. Select the test you created above, and click the **Edit Test** button  on the toolbar. The Performance Test Designer opens.

How do I design the performance test?

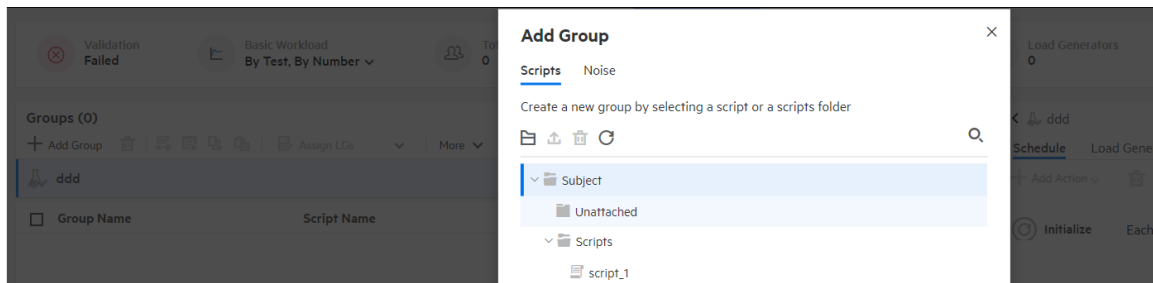
From the **Groups and Workload** view in the Performance Test Designer, you perform the basic test design steps. You design the test as follows:

1. Assign a Controller to the test.

- In the Summary pane, click the **Edit** button  for **Controller**. The Select Controller dialog box opens.
- Select **Specific**.
- Select from the list the host machine that has been assigned the Controller and Load Generator (C+LG) purpose.

2. Add Vuser scripts.

- In the Groups pane, click the **Add Group** button . The Add Group dialog box opens, displaying the Scripts tree with the script that you uploaded previously.



- Select the script and click **Add** to add it to the test. The script appears in the Groups pane.

Groups (1)				
+ Add Group      Assign LGs  More 				
 ddd			 1	 0
☐ Group Name	Script Name	Script Type	Vusers	# of LG
 script_1	script_1	Web - HTTP/HTML	1	0

3. Add load generators.

- a. From the Groups pane toolbar, click **Assign LGs**.

The Assign Groups to Load Generators dialog box opens.

- b. In the **Groups** column, select the Vuser groups to use in the test.
- c. In the **Load Generators** column, select the **Specific** tab, and from the list that appears, select the host machine that has been assigned the Controller and load generator (C+LG) purpose.
- d. Click **Apply Assignment**.

4. Configure the schedule settings.

A schedule defines the actions of the Vusers for the performance test run, for example the behavior of 10 Vusers emulating 10 users simultaneously logging on to the same Web site.

Because typical users do not perform the same action simultaneously, the Scheduler allows you to schedule a performance test according to a more realistic portrayal of typical user behavior.

Define the schedule as follows:

In the **Scheduler** pane of the **Groups and Workload** tab, click in each of the schedule actions in the Actions grid and define them as follows:

- **Initialize.**

 Initialize	All Vusers simultaneously	Wait For	00:00:00	(HH:MM:SS) after initialization
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- **Start Vusers.**

 Start	All Vusers gradually	2	Vusers every	00:00:30	(HH:MM:SS)
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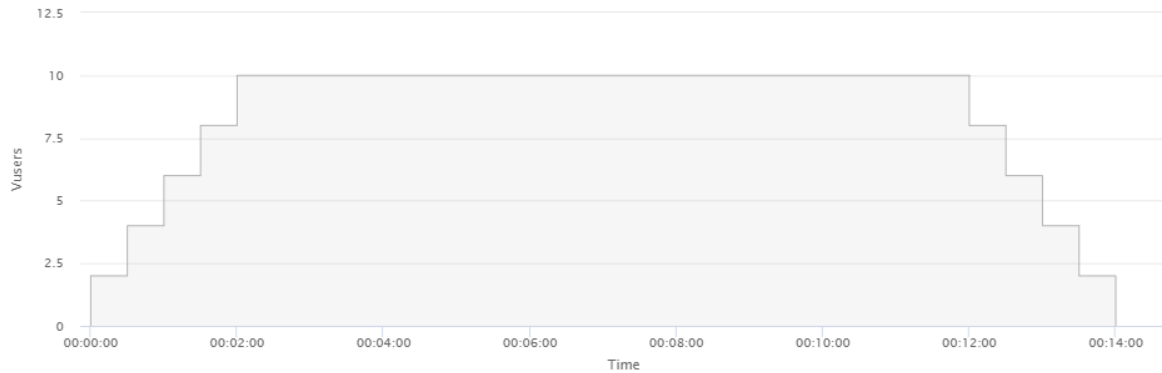
- **Duration.**

 Duration	Run for	00:00:10:00	(dd.HH:MM:SS)
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- **Stop Vusers.**

 Stop	All Vusers gradually	2	Vusers every	00:00:30	(HH:MM:SS)
---	----------------------	---	--------------	----------	------------

The schedule graph displays a graphical representation of the defined schedule. The lines in the graph correspond to the actions defined in the Actions grid.



How do I add the monitor profile to the test?

You add the monitor profile to the test as follows:

1. Click the **Navigation** menu  and select **Test Management > Tests & Scripts**.
2. In the test management tree, select the test that you created in ["Creating performance tests" on page 19](#) and click **Edit Test**.
3. In the Performance Test Designer window, click the **Assets** tab and select **Monitors**.
4. Click the **Assign Monitors** button . From the Monitor tree, select the monitor profile and click **Select & Close** to add it to the test.

Next steps

- ["Running performance tests" on the next page](#)

Running performance tests

This lesson explains the steps that are necessary before you run the performance test, and how to begin a test run.

- ["Creating test sets" below](#)
- ["Reserving Timeslots" on the next page](#)
- ["Running performance tests" on page 26](#)

Creating test sets

The next step in the performance testing process is the creation of a performance test set.

What is a test set?

After you design the performance test in the Testing module, you organize the test run by creating a test set, and adding an instance of the test to the test set. The purpose of a test set is to enable you to group together tests that were created for similar goals.

How do I create a test set?

You create the test set and add the test to it as follows:

1. **Create the test set.**
 - a. In the Performance Test Designer, click **Save and Run**. The Manage Test Sets dialog box opens.

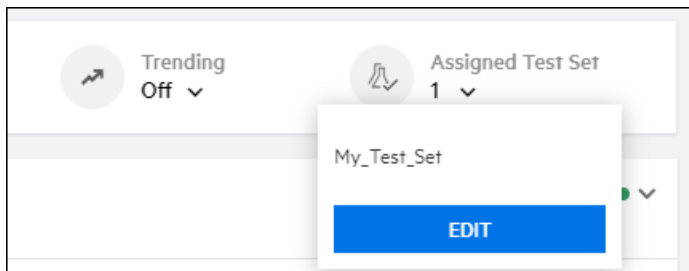


Tip: You can also create or assign a test set from the Create New Performance Test dialog box. For details, see ["Creating performance tests" on page 19](#).

- b. Click the **Root** test set folder, and click the **New Folder** button . Specify a name for the Test Set folder, for example, `Test_set_folder`.

2. Assign the performance test to the test set.

- a. Select the folder you created above, and click the **New Test Set** button .
 - b. Enter the test set name, for example, `My_Test_Set`. Click **Assign**. Your test is assigned to the test set.



Next steps

- ["Reserving Timeslots" below](#)

Reserving Timeslots

Before you run the test, you reserve a timeslot to ensure that the resources needed are available for the duration of the test.

How do I reserve a timeslot?

1. Click the **Navigation** menu  and select **Timeslots**.
2. From the calendar or grid view, click the **New/Add Timeslot** button . The Add New Timeslot dialog box opens.
3. Define the following information:
 - **Start.** Choose **Manually** as the method for running tests. The timeslot reservation reserves testing resources only.
 - **Name.** Enter a name for the timeslot.

- **Test/Test Instance.** Select the test you created and the test set instance to link to the timeslot. The number of Vusers and hosts that were defined as part of the test design process are automatically displayed.
 - **Duration.** Set the start time, and enter a duration for the test.
 - **Post Run Action.** If the administrator did not set an action across the project (the options are available for selection), select **Collate and Analyze**.
4. Click **Calculate Availability**. The availability of the requested resources during the selected timeslot is calculated. The results of this calculation are displayed in the Timeslot Status tab and graphically on the time chart.

Add New Timeslot

Start: Automatically — Manually

Name: Quick_Start_Timeslot

Test: Duplicate_graphs, Root\ts\ts1\ts1

Vusers: 30 + 2 = 32
Total Vusers

VUDs: 0 Out of 32

Duration: 0 Hours, 30 Minutes

Start Time: Feb 22, 2022, 11:42

End Time: Feb 22, 2022, 12:12

Post Run Action: Collate

Description:

Host Allocation

Host Type	Host Name	# of Hosts
Controller	myd-hvm04224	-
Specific LG	myd-hvm04223	-

CALCULATE AVAILABILITY ✓ Timeslot can be reserved

Feb 22, 2022

11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Feb 23, 2022	00:00	01:00	02:00	03:00	04:00	05:00
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--------------	-------	-------	-------	-------	-------	-------

Legend: Selected and available (green), Selected and unavailable (red), Unavailable (grey)

ADD **CANCEL**

Note: If the timeslot cannot be reserved, reselect your resources or adjust the start time, taking into account the reasons displayed in the Timeslot Status tab.

5. When you find a valid timeslot, click **Add** to save the timeslot.

Next steps

- ["Running performance tests" below](#)

Running performance tests

Now that you have designed the performance test, added an instance of the test to a test set, and reserved a timeslot for the test, you are ready to run the test and observe how your application performs under load.

How do I run the performance test?

You run the performance test as follows:

1. Click the **Navigation** menu  and select **Test Management > Tests & Scripts**.
2. Select your test in the test management tree.
3. Click the **Run Test** button. The Run Performance Test dialog box opens.
4. Click the **Reserved Timeslot** tab.
5. Select the timeslot you reserved, and click **Run**.

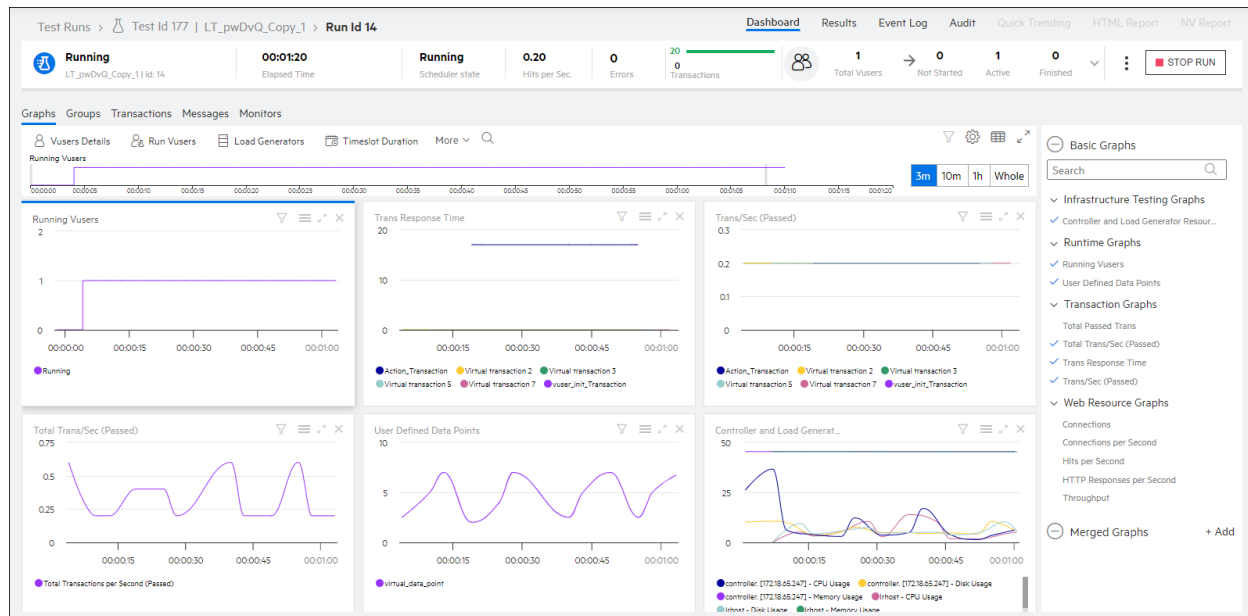
The Initializing Run page displays the performance test initialization steps, and the status for each step. If each step is completed successfully, the performance test starts running and the Run Dashboard opens. The Test Run page enables you to manage and monitor the test as it runs.

What does the Run Dashboard display?

The Run Dashboard is the control center from which the test run is managed and monitored.

Quick Start Guide

Running performance tests



The Run Dashboard displays the following.

Pane/Tab	Description
Summary	The Summary pane displays a synopsis of the running performance test.
Test run views	The Test Run Details area provides four views: • Graphs: This is the view displayed in the above image. This view displays performance measurements for those resources being monitored in the test. This enables you to monitor how the application under test is performing in real time and identify where potential bottlenecks exist. • Groups: The Groups view displays the statuses of the Users in each User group in the performance test. • Transactions: The Transactions view displays how many transactions have been run successfully or unsuccessfully. • Messages: The Messages view displays error, warning, debug, and output messages that are sent to the Controller by the Users and load generators during a test run. • Monitors. The Monitors view displays monitors from all the monitor profiles and over firewall agents that are associated with the selected test. You can add new monitors to the test from this view.

Pane/Tab	Description
Tabs	In the Graphs pane, click the More button and select Graphs . A list of the configured online graphs is displayed. You can select which graphs to display in the Graphs view.

Next steps

- ["Post-run analysis and trending" on the next page](#)

Post-run analysis and trending

This lesson explains how to analyze test run data using Analysis, and how to view performance improvements and regressions using the Trend Report feature.

In this lesson you will learn about:

- ["Analyzing performance test run results" below](#)
- ["Viewing performance improvements and regressions" on page 34](#)

Analyzing performance test run results

Now that you have completed running the performance test, you can use Analysis to analyze the performance data generated during the test run. Analysis gathers the performance data into detailed graphs and reports. Using these graphs and reports, you can pinpoint and identify the bottlenecks in the application, and determine what changes need to be made to the system to improve its performance.

How do I view Analysis information?

To view Analysis data for your actual performance test, you perform the following steps:

1. Install Analysis

You can download Standalone Analysis from the Click the **Navigation** menu  and select **Download Applications > Standalone Analysis**.

2. Collate and analyze the results for the test run.

- a. Click the **Navigation** menu  and select **Test Runs**. Select the performance test you just ran in the test management tree, and click the **Runs** tab.
- b. If the test run is in the **Before Collating Results** state, right-click the run, and select **Collate**. The results for the test run are collated.

- c. When result collation has finished, and the test run is in the **Before Creating Analysis Data** state, right-click the run, and select **Analyze**.
- d. When OpenText Enterprise Performance Engineering has finished analyzing the results, download the **Results_<#>.zip** file for the test run.

3. Open the Analysis session file for your performance test.

- a. In Analysis, select **File > Open**. The Open Existing Analysis Session dialog box opens.
- b. Click **File System**, and go to the **Results_<run_id>.zip** file for the instance of your performance test that you want to analyze.
- c. Double-click the **Results_<run_id>.zip** file. The Analysis session file is opened in Analysis.

For information about how to work within Analysis, see the [OpenText Professional Performance Engineering Help Center](#).

Did I reach my goals?

Analysis opens displaying the Summary Report. The Summary Report provides general information about the performance test run. In the **Statistics Summary** of the report, you can see how many Vusers ran in the test and view other statistics such as the total/average throughput, and the total/average hits. The **Transaction Summary** of the report lists a summary of the behavior of each transaction.

How can I view the graphs?

The **graph tree** in the Analysis window shows the graphs that are open for viewing. From the graph tree, you can choose to open new graphs and remove graphs that you no longer want to view. The graphs are displayed in the **graph viewing area** of the Analysis window. You can view data from the selected graphs in the **graph legend**.

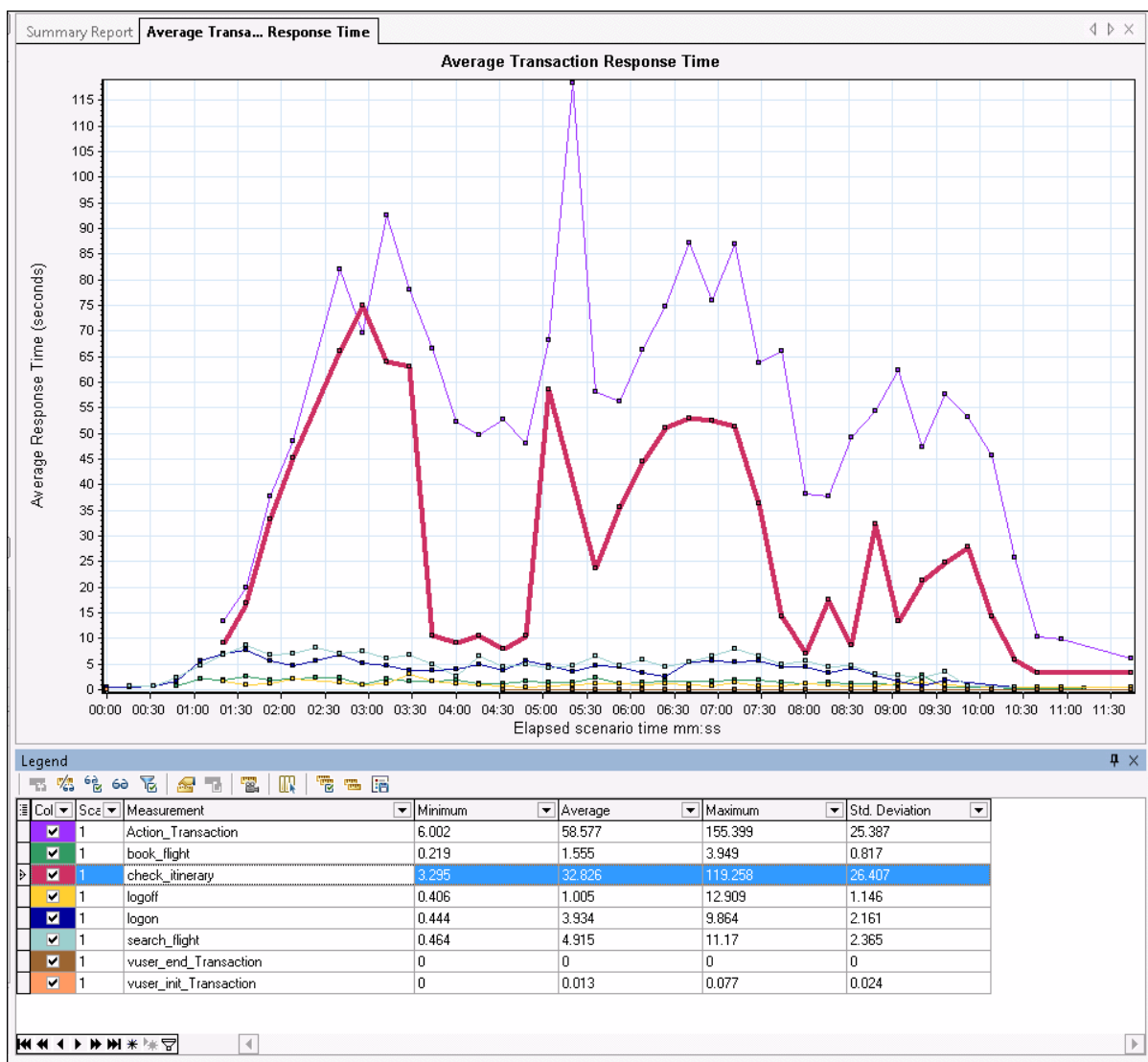
As an example, let's analyze the Average Transaction Response Time graph. Using this graph, you can view the behavior of the problematic transactions during each

second of the performance test run. In this section, you view the behavior of the **check_itinerary** transaction.

To open and analyze the Average Transaction Response Time graph:

1. Select **Graph > Add New Graph**. The Open a New Graph dialog box opens.
2. Under **Transactions**, select **Average Transaction Response Time**.
3. Click **Open Graph**. The Average Transaction Response Time graph opens in the graph viewing area.

Click **Close** to exit the Open a New Graph dialog box.



4. In the legend, click **check_itinerary**. The check_itinerary transaction is highlighted in the graph and in the legend below the graph.

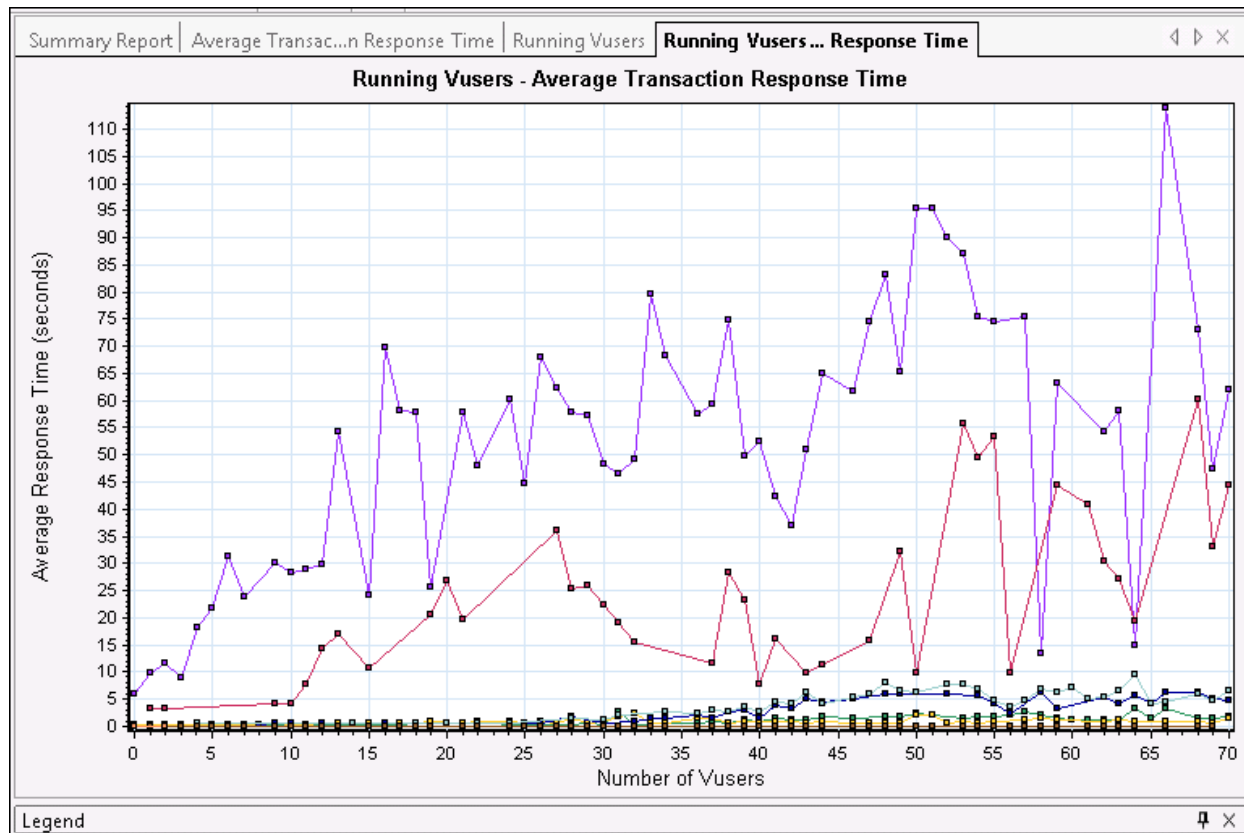
Notice how the average response time of the **check_itinerary** transaction fluctuates greatly compared to the other transactions at the bottom of the graph, which follow a more or less stable average response time.

How can I compare data from different graphs?

You can join two graphs together to see the effect of one graph's data on another graph's data. This is called **correlating two graphs**. For example, you can correlate the Running Vusers graph with the Average Transaction Response Time graph to see the effect of a large number of Vusers on the average response time of the transactions.

1. Choose **Graph > Add New Graph**. The Open a New Graph dialog box opens.
2. Under **Vusers**, select **Running Vusers**.
3. Click **Open Graph**. The Running Vusers graph opens in the graph viewing area.
Click **Close** to exit the Open a New Graph dialog box.
4. Select the **Running Vusers** graph and click the **Merge Graphs** button  on the main toolbar.
5. From the **Select graph to merge with** list, select **Average Transaction Response Time**.
6. In the **Select type of merge** area, select **Correlate**, and click **OK**.

The Running Vusers and Average Transaction Response Time graphs are now represented by one graph which opens in the graph viewing area.



Another Analysis tool, **Auto Correlate** (click ) , merges all graphs containing data that could have had an effect on a transaction. Correlations of the transaction with each element are displayed, allowing you to deduce which elements had the greatest effect on the transaction.

How can I sort graph data?

You can filter graph data to show fewer transactions for a specific segment of the performance test, and you can sort graph data to show the data in more relevant ways. For example, you can filter the Average Transaction Response Time graph to display only the **check_itinerary** transaction.

1. Click **Average Transaction Response Time** in the graph tree to open the graph.

2. Select the graph and click the **Set Filter/Group by** button .

3. In the **Transaction Name** value box, select **check_itinerary** and click **OK**.

The filtered graph displays only the **check_itinerary** transaction and hides all the other transactions.

How can I publish my findings?

You can publish the findings from your analysis session in an HTML or Microsoft Word report. The HTML report can be opened and viewed in any browser. The Word report is more comprehensive than the HTML report, enabling you to include general information about the performance test and to format the report to include your company's name, logo, and the author's details.

For details about analyzing performance test results, see the Analysis section in the [OpenText Professional Performance Engineering Help Center](#).

Next steps

- ["Viewing performance improvements and regressions" below](#)

Viewing performance improvements and regressions

This lesson explains how to view changes in performance from one performance test to another using a trend report.

Trend reports

A trend report is a feature that enables you to view changes in performance from one performance test to another, or across several performance tests. By

analyzing these changes, you can easily identify improvements or regressions in the measurement's performance.

For example, if you would like to analyze the performance trend of the average transaction response time measurement of **Transaction X**, then the trend report would display the changes in the response time from one test to the next, clearly indicating whether this measurement improved (where the response time decreased) or regressed (where it increased).

What steps are involved in working with trend reports?

The process of creating and viewing a trend report involves the following steps:

- **Step 1 - Creating the trend report.** Creating the basic trend report by defining its name, description and selecting a template.
- **Step 2 - Adding test runs to the trend report.** Extracting test run data from Analysis to the trend report.
- **Step 3 - Viewing trend report data.** Opening the trend view and analyzing the trending information.

Creating the Trend Report

You create the trend report from the main Trend Reports page.

To create the trend report:

1. **Open the main Performance Trending page.**

Click the **Navigation** menu  and select **Reports > Performance Trending**.

2. **Define a new trend report.**

On the Performance Trending page, click the **Create Trend Report** button .

Enter a name and description for the report and click **Create**.

3. **Add performance test run data to the report.**

- a. Click **Add Runs** and select a project and test set. All analyzed instances of the performance test appear in the grid.
- b. Select the analyzed instances of the test that you want to add to the trend report.

Note: To add test runs to the trend report, there must be a data processor in your project's host pool. For details, contact the administrator.

- c. By default, data collected from the whole test run is available for trending. To make only part of the test run available for trending, click **Time Range**, and select **Trend Part of Run**.

Select the part of the run to trend by entering the start and end times in the **Start Time** and **End Time** boxes, and click **OK**.

To revert back to the default setting, select **Trend complete run**.

- d. Click **Add** or **Add & Close**. The test runs are uploaded from Analysis and added to the trend report. The trend report opens displaying the Trend Overview tab.

Viewing Trend Report data

In the following section, we will look at trending information for the average transaction response time measurement only.

To view trending information:

On the trend report, click the **Performance** tab.

In the trend view that opens, you see a table that displays the transactions that were present in the test run, as well as the average transaction response times for each selected instance of the test run.

By comparing these average transaction response time figures, you can identify if the performance of the transaction improved or regressed from one test run to the next.

The following example illustrates this point.

Transaction Response Time (Compare to baseline)

Name	Type	Average			
		run 3 [Base]	run 4	run 5	run 6
All	TRT	4.567	1.22 (-73.29%)	2.32 (-49.2%)	12.455 (+172.72%)
TRX_01	TRT	2.045	4.073 (+99.17%)	2.035 (-0.49%)	1.05 (-48.66%)
TRX_02	TRT	1.045	2.07 (+98.09%)	1.015 (-2.87%)	1.051 (+0.57%)
TRX_03	TRT	3.053	3.067 (+0.46%)	2.009 (-34.2%)	2.654 (-13.07%)
TRX_04	TRT	6.055	6.868 (+13.43%)	5.011 (-17.24%)	7.05 (+16.43%)

In the trend view shown above, four transactions (**TRX_01**, **TRX_02**, **TRX_03**, and **TRX_04**) are displayed and their average Transaction Response Time measurement is being trended from four performance test runs: **3**, **4**, **5**, and **6**.

Test run **3** has been automatically defined as the baseline run, (as indicated by the word **Base** in brackets). This means that the average transaction response times contained in the other tests are compared to test run **3** only.

In test run **3**, the average transaction response time for **TRX_01** was **2.045**. The average transaction response time for the same transaction in test run **4** was **4.073**, which represents a slower response time and therefore a regression in the performance of this measurement. The percentage difference between the two figures is displayed in parenthesis, in this case **+99.17%**.

In test run **6**, the average transaction response time for **TRX_01** was **1.05**, which represents a faster response time than test run **3**, and therefore a performance improvement. The percentage difference between the two figures is displayed in parenthesis, in this case **-48.66%**.

