



Web Dashboard User Guide

Version 10.2



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WebLOAD Dashboard User Guide

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Introduction

RadView's Web Dashboard enables viewing, analyzing and comparing load sessions in a web browser, with full control and customization of the display.

- For explanations of the various measurements in the graphs, refer to the *WebLOAD Console User's Guide*.
- For explanations of the log messages in the log tables, refer to the *WebLOAD Console User's Guide*.

WebLOAD Documentation

WebLOAD is supplied with the following documentation:

WebLOAD™ Installation Guide

Instructions for installing WebLOAD and its add-ons.

WebLOAD™ IDE User's Guide

Instructions for recording, editing, and debugging load test Agendas to be executed by WebLOAD to test your Web-based applications.

WebLOAD™ Console User's Guide

A guide to using WebLOAD console, RadView's load/scalability testing tool to easily and efficiently test your Web-based applications. This guide also includes a quick start section containing instructions for getting started quickly with WebLOAD using the RadView Software test site.

WebLOAD™ Analytics User's Guide

Instructions on how to use WebLOAD Analytics to analyze data and create custom, informative reports after running a WebLOAD test session.

WebRM™ User's Guide

Instructions for managing testing resources with the WebLOAD Resource Manager.

WebLOAD™ Scripting Guide

Complete information on scripting and editing JavaScript Agendas for use in WebLOAD and WebLOAD IDE.

WebLOAD™ JavaScript Reference Guide

Complete reference information on all JavaScript objects, variables, and functions used in WebLOAD and WebLOAD IDE test Agendas.

WebLOAD™ Extensibility SDK

Instructions on how to develop extensions to tailor WebLOAD to specific working environments.

WebLOAD™ Automation Guide

Instructions for automatically running WebLOAD tests and reports from the command line, or by using the WebLOAD plugin for Jenkins

WebLOAD™ Web Dashboard User Guide

Instructions for using RadView's Web Dashboard to view, analyze and compare load sessions in a web browser, with full control and customization of the display.

The guides are distributed with the WebLOAD software in online help format. The guides are also supplied as Adobe Acrobat files. View and print these files using the Adobe Acrobat Reader. Install the Reader from the Adobe website <http://www.adobe.com>.

Where to Get More Information

This section contains information on how to obtain technical support from RadView worldwide, should you encounter any problems.

Online Help

WebLOAD provides a comprehensive on-line help system with step-by-step instructions for common tasks.

You can press the **F1** key on any open dialog box for an explanation of the options or select **Help ► Contents** to open the on-line help contents and index.

Technical Support Website

The technical support pages on our website contain:

- FAQ (Frequently Asked / Answered Questions)
- Agenda Center
- Documentation
- RadView's Product Resource Center, where you can find prepared test scripts, product information, and industry related news.
- <http://www.radview.com/support/index.asp>

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Note: We encourage you to use e-mail for faster and better service.

When contacting technical support please include in your message the full name of the product, as well as the version and build number.

Installing Web Dashboard

This section describes the standard Web Dashboard installation process. For information about other deployment options, refer to *Distributed Server Deployment* (on page 42).

Installation Instructions

To install Web Dashboard:

1. Install WebLOAD and select the **Install WebLOAD Dashboard Server** option.

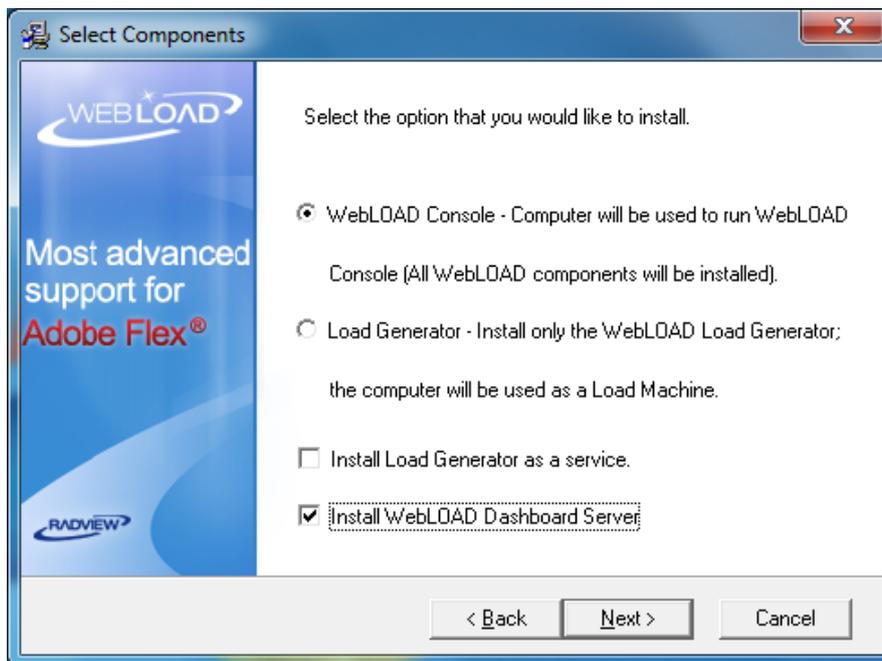


Figure 1: Web Dashboard Installation Option

Enabling Importing of Remote Sessions

If you want to import sessions into Web Dashboard directly from remote Analytics or Console installations, perform the following:

1. Configure the database for remote connections. Refer to *Configuring PostgreSQL for Remote Connections* (on page 43).
2. Instruct WebLOAD Analytics or WebLOAD Console to import sessions to the desired database, as described in the following sections:
 - *Instructing WebLOAD Console to Import Sessions to the Database*
 - *Instructing WebLOAD Analytics to Import Sessions to the Database*

Instructing WebLOAD Console to Import Sessions to the Database

In the WebLOAD Console (version 10.2 and up), enable the importing of sessions to the desired database as follows:

1. Select **Tools > Global Options > Database**.

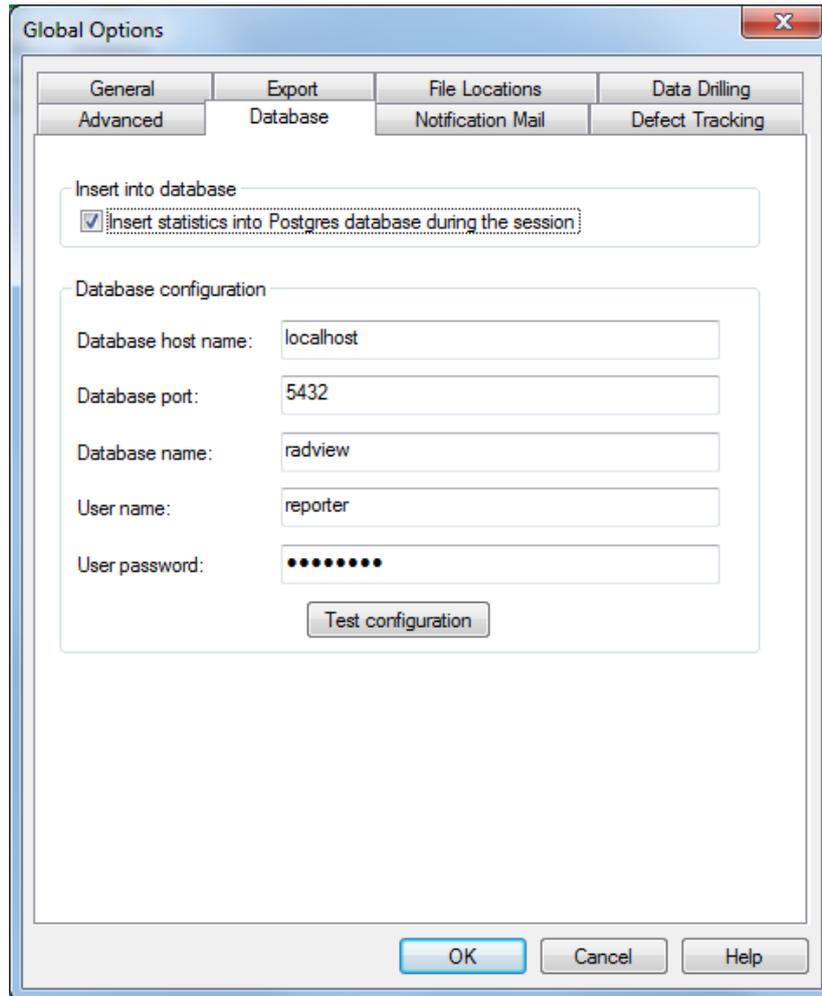


Figure 2: Console Global Options - Database Tab

2. Make sure the **Insert statistics into Postgres database during the session** checkbox is selected.
3. In the **Database host name** field, enter the database server name or IP address.

Instructing WebLOAD Analytics to Import Sessions to the Database

In WebLOAD Analytics, instruct the application to import sessions to the desired database as follows:

1. Select **Preferences > Database**.

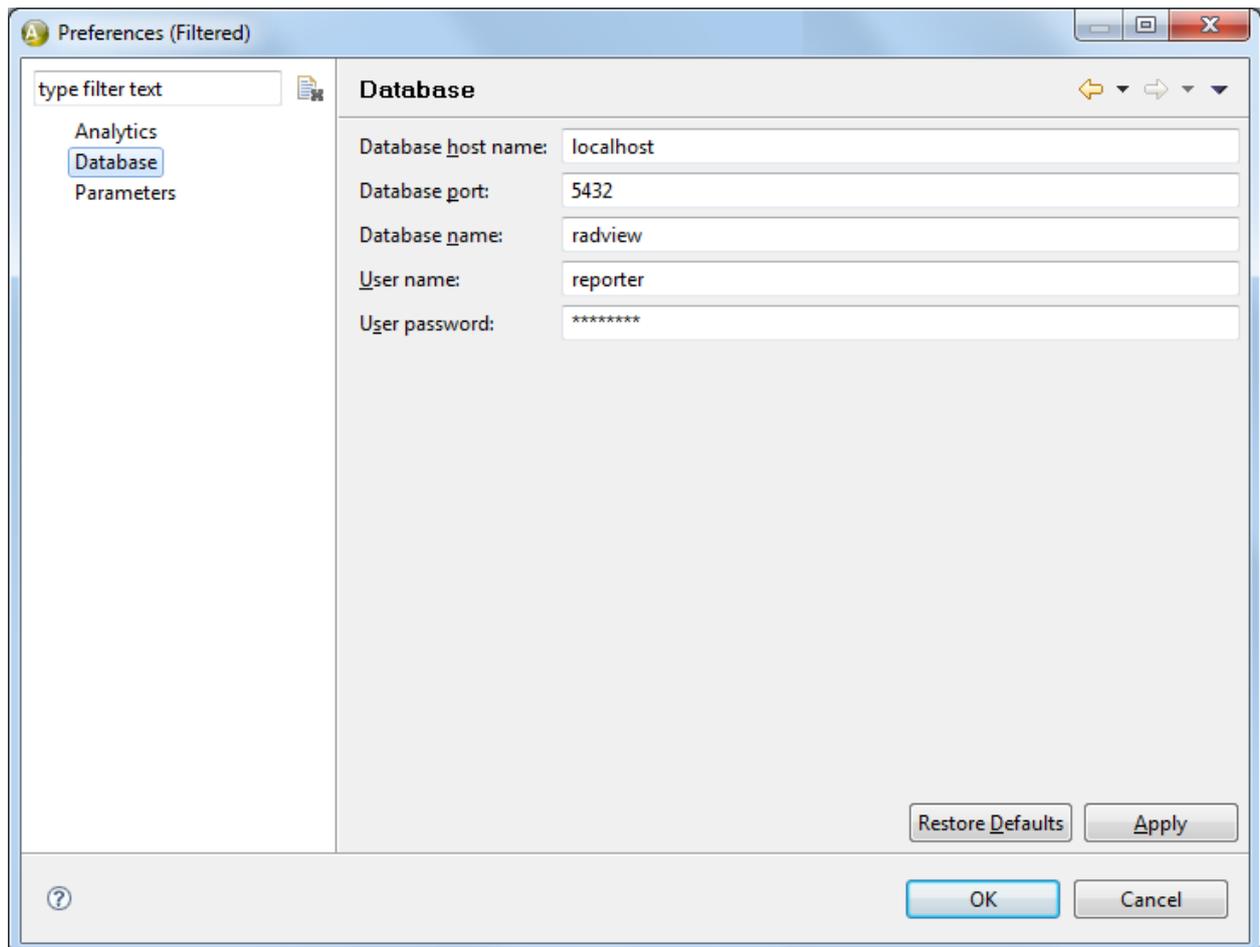


Figure 3: Analytics Preferences - Database Tab

2. In the **Database host name** field, enter the database server name or IP address.

Getting Started

Launching Web Dashboard

To launch Web Dashboard:

1. Select **Start > Programs > RadView > WebLOAD > Utilities-> Start Dashboard Server**.
This launches the dashboard (and Elasticsearch) servers.
2. Navigate to <http://localhost:8080/>
Web Dashboard appears, displaying the default (Home) dashboard.

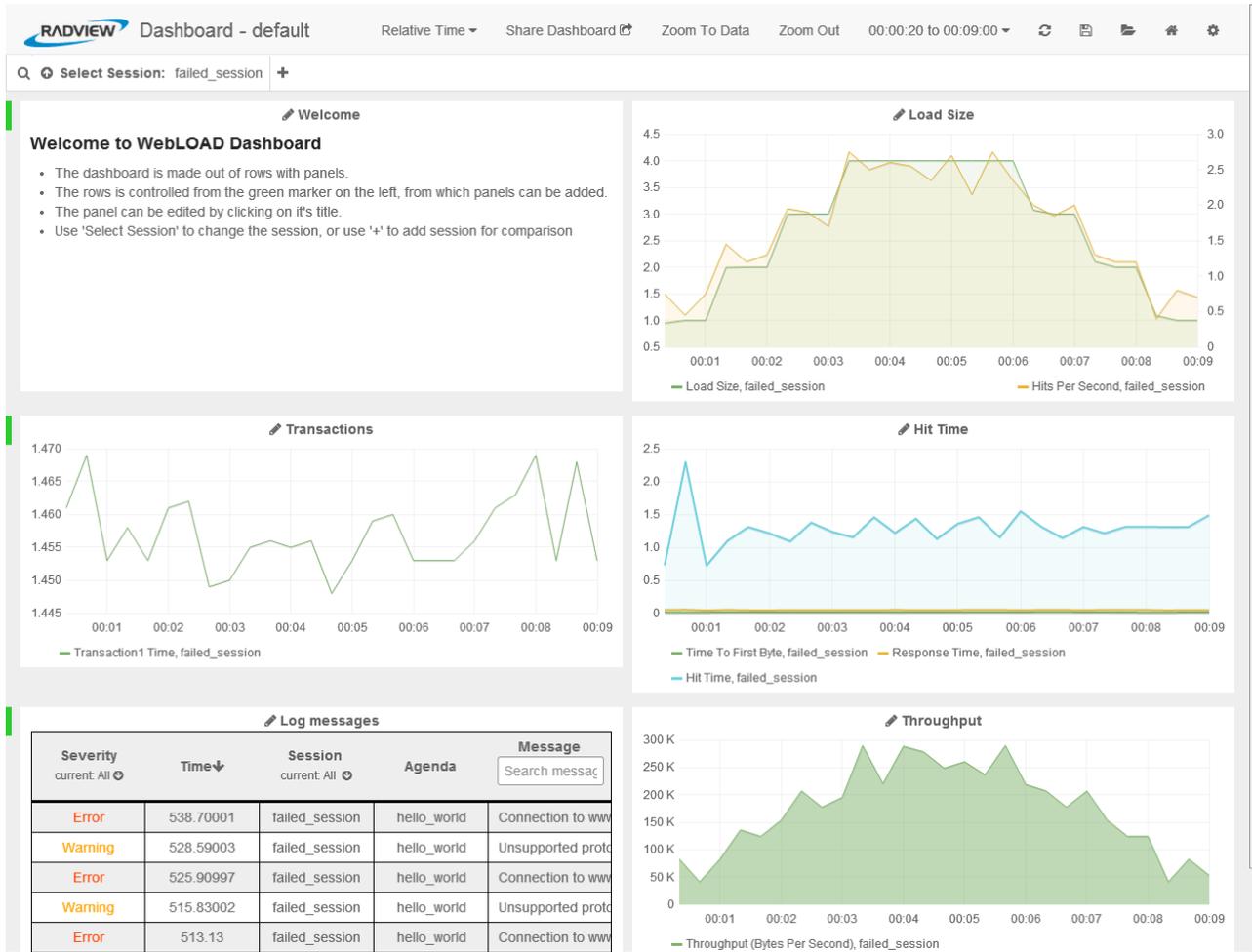


Figure 4: Web Dashboard Default Dashboard

Understanding the Dashboard

The high level UI components of the dashboard include:

- *Dashboard Header*– Contains global settings, filters and controls
- *Rows* – Each row contains panels for data display
- *Panels* – Display data in graph, text or log format

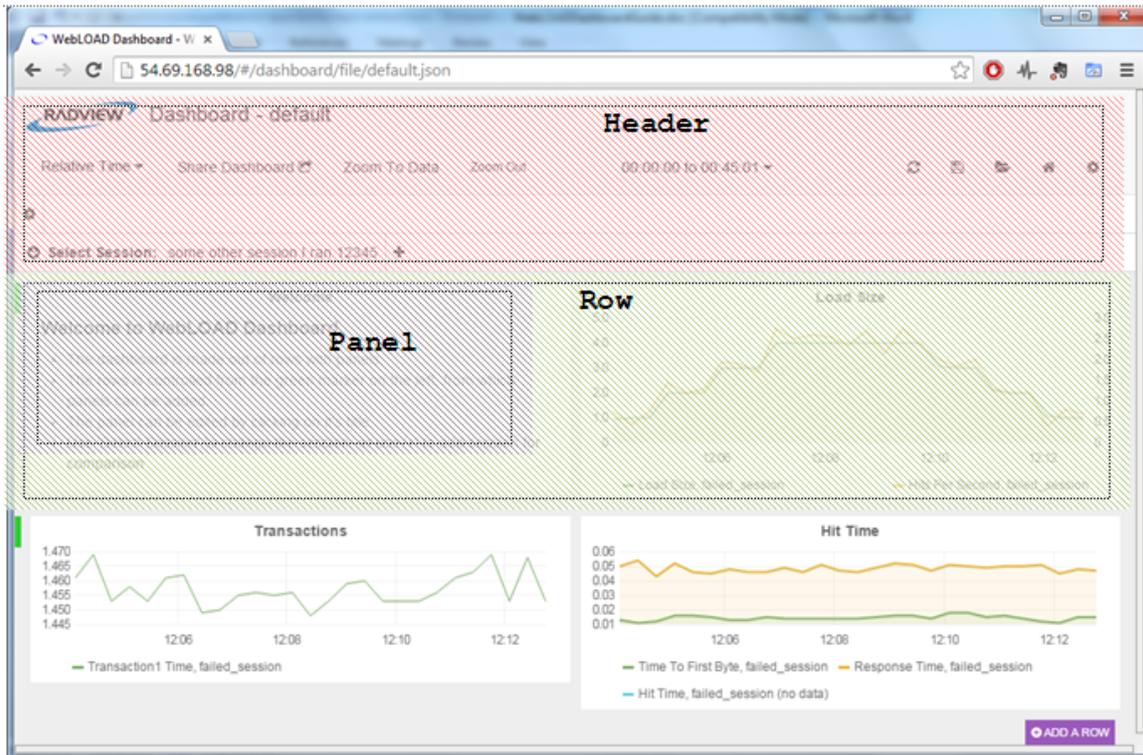


Figure 5: Dashboard Components

Dashboard Header

The following figure shows a typical dashboard header.

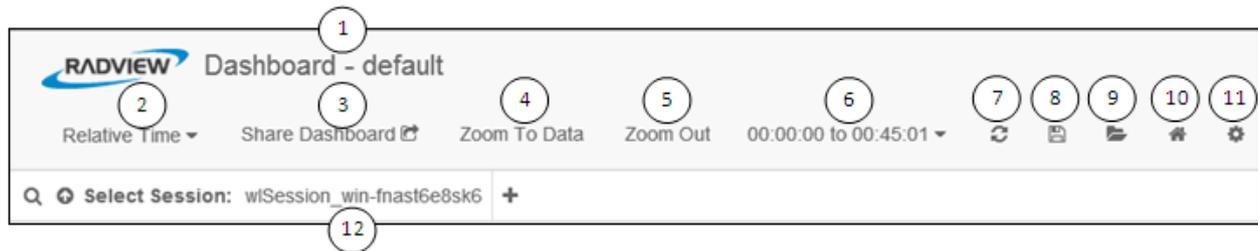


Figure 6: Dashboard Header Components

The main components of the Web Dashboard header include:

Item	Description	For more information, see
1	Dashboard name	
2	Time format: <ul style="list-style-type: none"> • Relative Time – Show the time since session start. useful for session comparison • Absolute Time – Show the real time of the session when it ran. Useful for currently running sessions 	<i>Selecting the Time Format</i> (on page 17)
3	Share dashboard – Enables sharing the current state of the dashboard	<i>Sharing a Dashboard</i> (on page 37)
4	Zoom to Data – Sets the time filter to the extent of the data. This is done automatically when selecting data or a new session.	
5	Zoom out	
6	Time filter	<i>Setting the Time Filter</i> (on page 18)
7	Refresh data	
8	Save	<i>Saving your Customized Dashboard</i> (on page 34)
9	Open a dashboard	<i>Loading a Dashboard</i> (on page 32)
10	Back to your saved default dashboard	
11	Settings – Enables configuring the dashboard’s general settings	<i>Customizing General Dashboard Settings</i> (on page 29)
12	Select session – Enables selecting the session(s) to be viewed and analyzed.	<i>Specifying the Sessions</i> (on page 15)

Rows

A row is a horizontal container for panels. A row can be hidden (collapsed) and its height controls its panels' height.

- To add a new row, click 
- To edit a row, click the green marker and select the desired option. For more information, refer to *Customizing Rows* (on page 19).

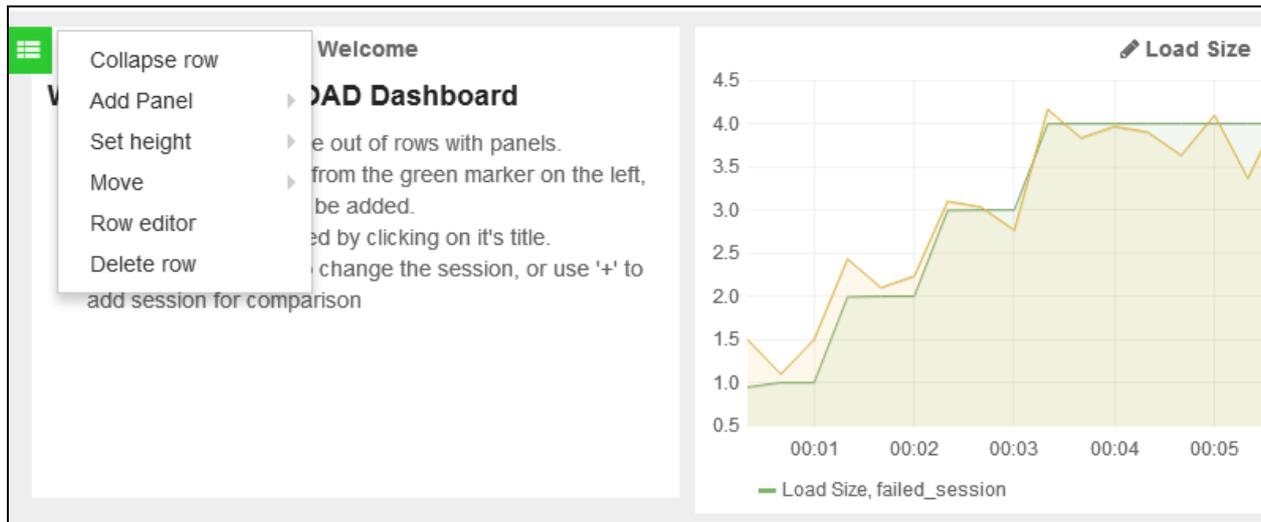


Figure 7: Row Editing Options

Panels

A panel is a data display unit. There are three types of panels – graph, text and log.

- To add a new panel, click the green marker of the desired row and select **Add Panel** (see Figure 7).
- To edit a panel, click the panel title and click **edit** in the box that appears. For more information, refer to *Customizing Panels* (on page 22).

Graph Panel

A graph panel presents session measurement data in graphic format. In each graph panel you can display multiple measurements from multiple sessions. You can also set various display options, such as colors, graph style (lines, bars, points), Y-axis formats (bytes, milliseconds, etc.) and more.

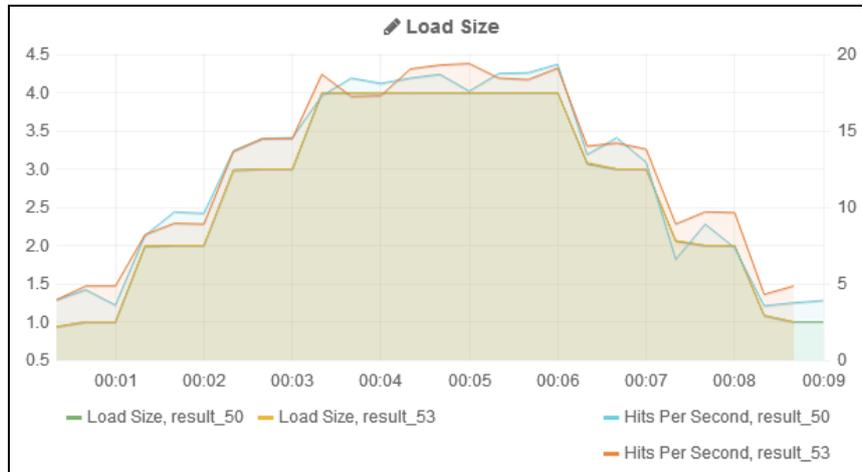


Figure 8: Graph Panel

Log Panel

A log panel presents log messages from specified sessions. You can sort the display by various parameters, and filter the display by message severity, session, or message text.

Log messages				
All	Time	All	Agenda	Message
Info	543.39001	failed_session		Test Failed: The r
Error	538.70001	failed_session	hello_world	Connection to ww
Warning	528.59003	failed_session	hello_world	Unsupported protc
Warning	528.59003	failed_session	hello_world	Unsupported protc
Error	525.90997	failed_session	hello_world	Connection to ww

Figure 9: Log Panel

Text Panel

A text panel presents text. You can edit the text.

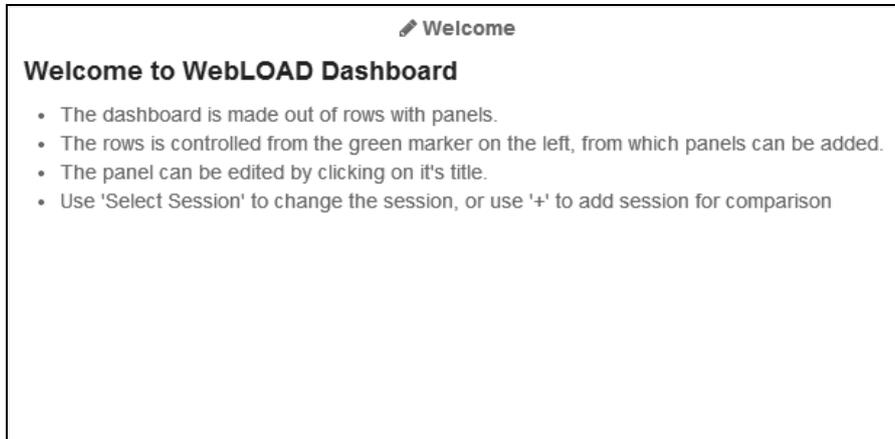


Figure 10: Text Panel

Working with Web Dashboard

Specifying the Sessions

Web Dashboard dashboards are useful both for analyzing the results of a specific session, and for comparing the results of different sessions.

You can select any session(s) saved in the database. To do so, you may need to import sessions into the database. This section describes:

- *Importing Sessions into the Database*
- *Selecting Sessions from the Database*

Importing Sessions into the Database

You can import sessions into the database in any of the following ways:

- In the Web Dashboard, use the Upload option to upload a session from the network and import it into the database (see item ② in Figure 11).
- Set WebLOAD Console to import session data during session execution. To do so, perform the steps described in *Enabling Importing of Remote Sessions* (on page 5).
- Import sessions from WebLOAD Analytics. To do so, perform the steps described in *Enabling Importing of Remote Sessions* (on page 5).
- In the Web Dashboard, use the Upload option to upload a session from the network and import it into the database (see item ② in Figure 11).

Selecting Sessions from the Database

You can select a session for viewing by either:

- Selecting it from the **Select Session** drop-down list (item ③ in Figure 11). You can select as many additional sessions as you wish (item ④ in Figure 11).
- Searching for the session by name (item ① in Figure 11).

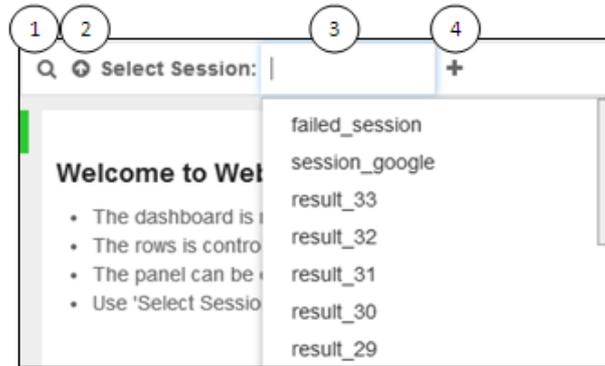


Figure 11: Session Selection

As soon as you select a session, the dashboard refreshes to show the session's data in the graph and log panels.

Selecting the Time Format

You can view dashboard data in either Relative time or Absolute time (see item ② in Figure 6). This affects the graphs' display as follows:

If you are viewing data for a single session:

- **Relative time** – The start time is shifted over to zero.
- **Absolute time** – Shows the real time. This format is useful for viewing currently running sessions.

If you are comparing sessions:

- **Relative time** – The graph shows the two sessions as if they occurred concurrently (within the same timeframe).

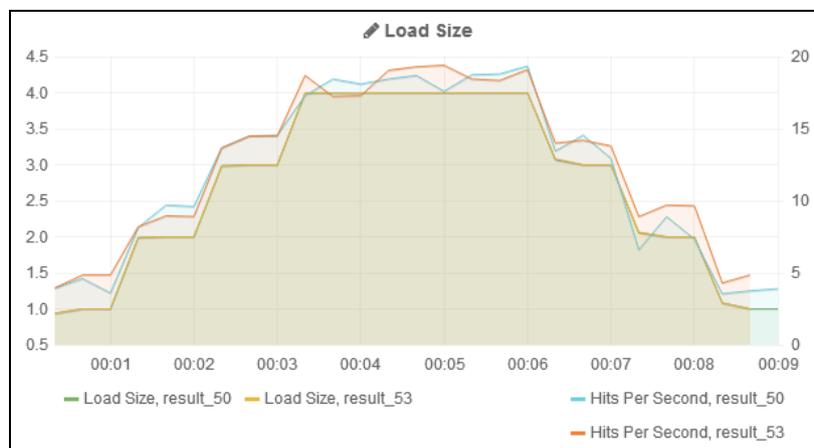


Figure 12: Comparing Sessions in Relative Time Display

- **Absolute time** – The graphs shows the real time.

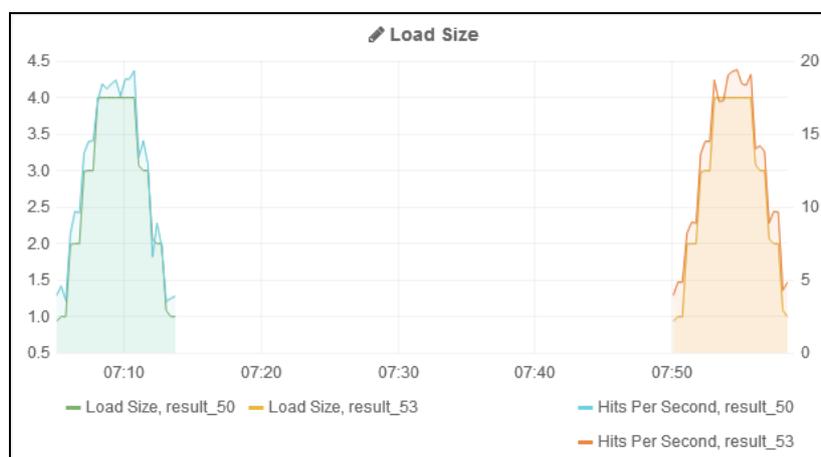


Figure 13: Comparing Sessions in Absolute Time Display

Setting the Time Filter

If you selected the Absolute time format (see item ② in Figure 6), you can set a time filter by clicking the arrow to the right of the current filter. By default, the time filter is set to the extent of the data when selecting data or a new session.

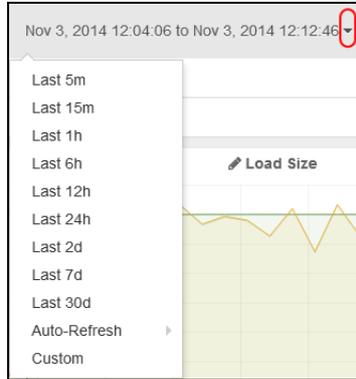


Figure 14: Time Filter Options

You can also set the auto-refresh frequency.

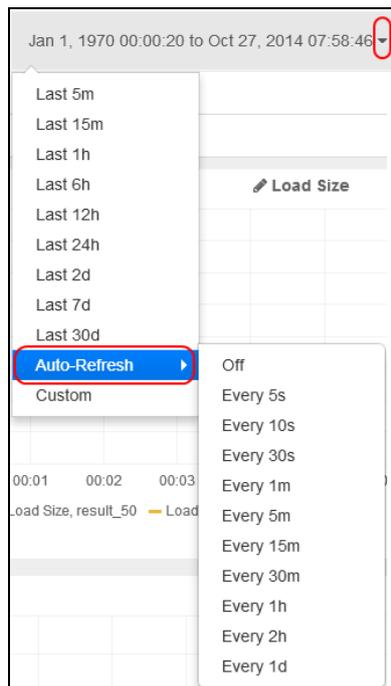


Figure 15: Auto-Refresh Options

Customizing a Dashboard

You can customize a dashboard as desired, and then save the customized dashboard if you wish. Note however that two types of changes are not considered customizations and are not saved: the selected sessions and the selected time filter.

To save your customizations, refer to *Saving your Customized Dashboard* (on page 34).

Customizing Rows

Adding a row

To add a new row, click **ADD A ROW**.

Editing a Row

To edit a row, click the green marker to the left of the row and select the desired option.

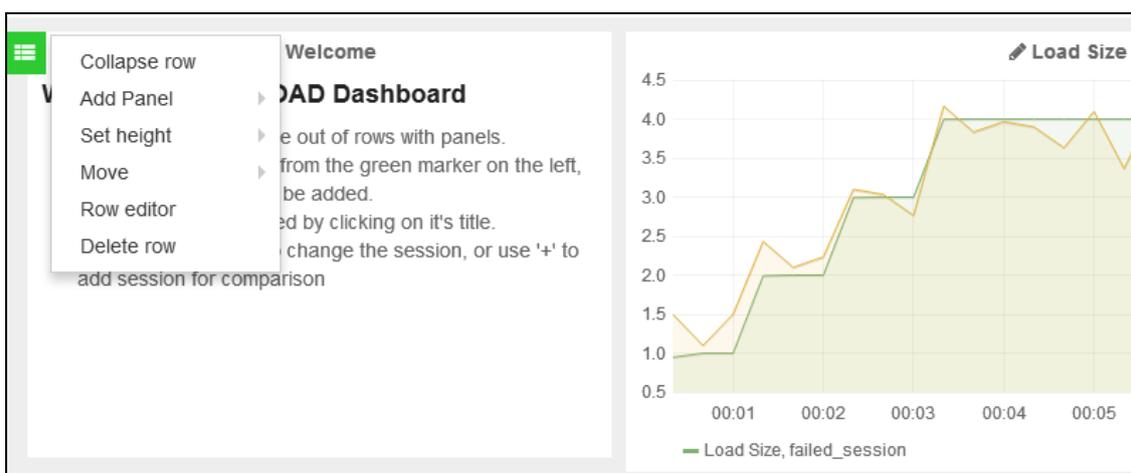


Figure 16: Row Editing Options

The available options include:

Collapse row	Hides the row. To show the row again, press the  button.
Add Panel	Adds a panel to the row, of the type you specify: graph, text, or log.
Set height	Sets the row height, in pixels.
Move	Moves the row up or down.
Row editor	Enables editing a row's settings. For information, refer to <i>Editing a Row's Settings</i> (on page 20).
Delete row	Deletes the row, following your confirmation.

Editing a Row's Settings

To edit a row's settings, click the green marker to the left of the row and select **Row editor** (see Figure 16). A **Row settings** pane appears, with a **General** tab and a **Panels** tab.

Editing Row Settings - General

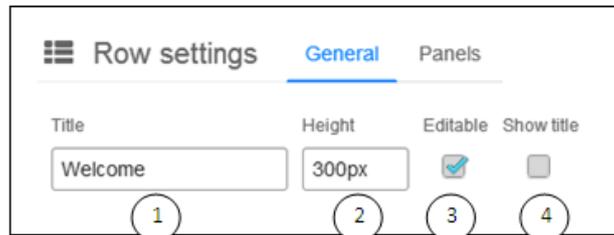


Figure 17: Row Settings - General

In the General tab you can:

Item	Description
1	Define the row title.
2	Set the row height.
3	Define whether the row is editable.
4	Specify whether to show the row title.

Editing Row Settings - Panels

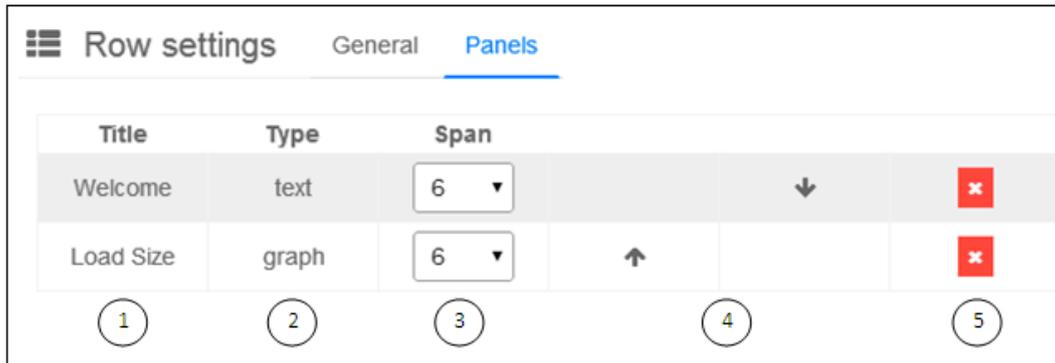


Figure 18: Row Settings - Panels

In the Panels tab you can:

Item	Description
1	View the title of each panel.
2	View the panel type (text, graph, or log) of each panel.
3	Set the span (width) of each panel.
4	Switch between the location of panels in the row.
5	Delete a panel.

Deleting a Row

To delete a row, click the green marker to the left of the row and select **Delete Row** (see Figure 16). Confirm the operation.

Customizing Panels

To edit a panel, click the panel title and click **edit** in the box that appears.

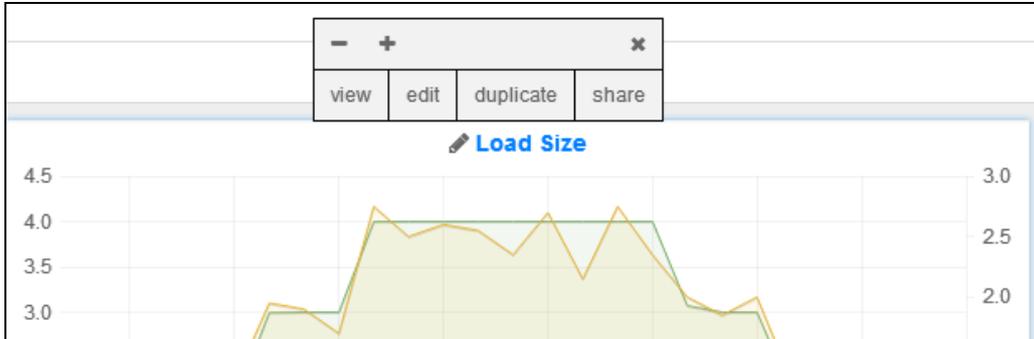


Figure 19: Panel Options

An editing pane appears, with various editing options that depend on the panel type (text, graph or log), as described below.

Editing a Panel's General Options

A panel's General options are identical for all panel types.

General options

Title Span Height

Figure 20: Edit Panel – General Options

In the General options you can edit the following panel settings:

Title	Edit the panel's title
Span	Edit the span (width) of the panel
Height	Edit the panel's height

Editing a Text Panel

To edit the text in a Text panel, click the panel's title and select **edit** (see Figure 19), then select the **Panel** tab.

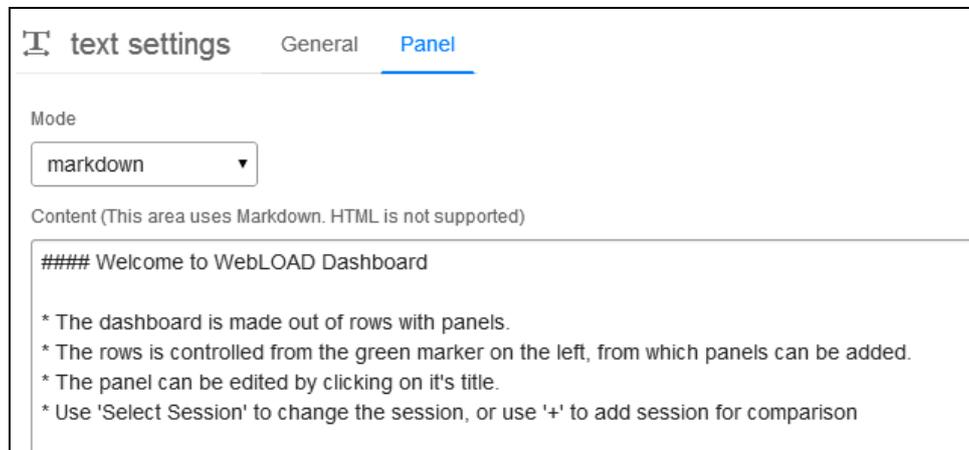


Figure 21: Text Settings – Panel Tab

You can:

- Select the mode:
 - **Text** – Plain text
 - **Html** – HTML
 - **Markdown** - Markdown markup syntax
- Edit the text as desired.

Editing a Log Panel

You can customize a log panel's display directly in the dashboard.

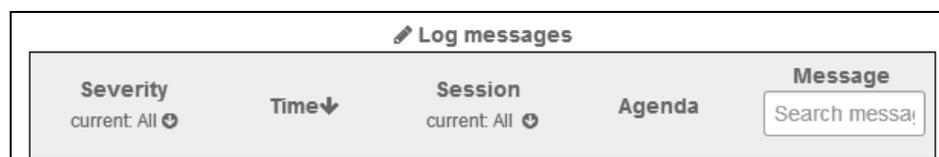


Figure 22: Log Panel Header

The header of the log panel provides the following options:

- Sorting the table display – Clicking any column head sorts the table by that column in ascending or descending order.
- Filtering by severity – By clicking the down arrow in the **Severity** column head, you can select whether to view messages of all severity types, or of a certain type.

- Filtering by Session – By clicking the down arrow  in the **Session** column head, you can select whether to view messages for all currently-selected sessions, or for a specific one of them.
If you wish to view log messages for sessions not currently selected, click the panel's title and select **edit**. In the dropdown box below the log table, select a session or select **All**.
- Filtering by a message string – Enter a text string in the **Search** message box to filter the display by messages that contain that text string

Editing a Graph Panel

A graph panel can be customized in various ways, as described below.

Changing the Span

At the click of a mouse, you can select a region to zoom into.

- Use the mouse to select a specific time range in the panel.

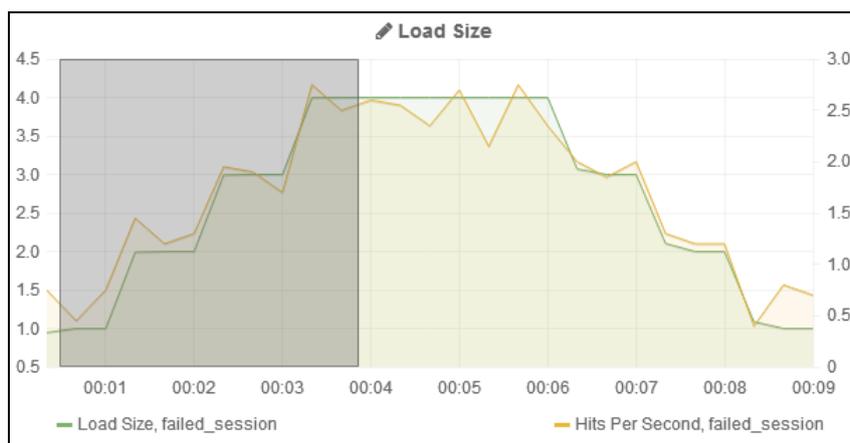


Figure 23: Selecting a Time Range

The dashboard refreshes to show the graph for the selected time range only.

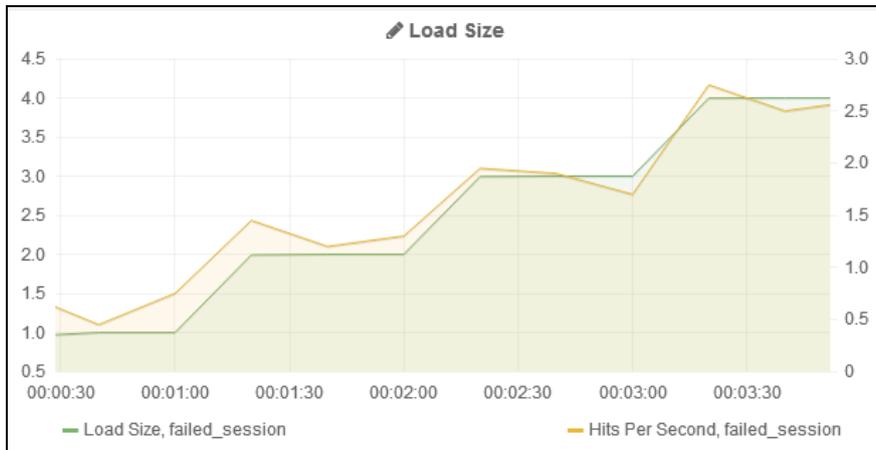


Figure 24: Display of a Selected Time Range

Specifying Sessions and Measurements

You can specify which measurements to display for which sessions.

To specify measurements and sessions:

1. Click the panel's title and select **edit**.
2. Select the **Metrics** tab. The sessions and measurements currently displayed in the graph are displayed in the table.

Session	Visibility	Session ID	Aggregation	Measurement	Y-Axis	Summary	Max	Settings	Delete
A	<input checked="" type="checkbox"/>	\$session	Total	Performance Measurements	Load Size	Test Summary	Max		
B	<input checked="" type="checkbox"/>	\$session	Total	Performance Measurements	Hits Per Second	Current slice	Sum (Current Value)		

webload ▾ Add measurement

Figure 25: Graph Settings – Metrics

3. To add a session or measurement, click **Add Measurement**. A new line appears in the table.

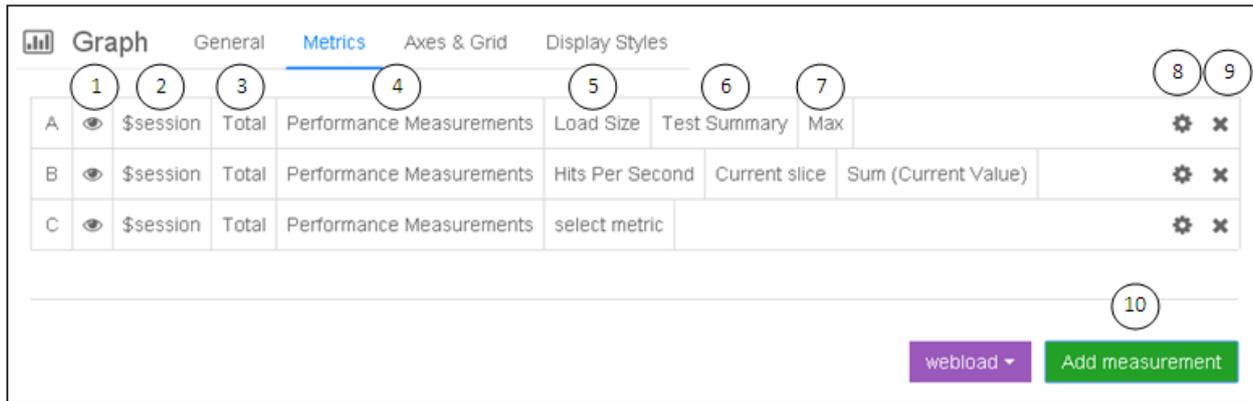


Figure 26: Graph Settings – Adding a New Measurement Line

4. Edit the new line:
 - Select a session for the new line you added (column ② in Figure 26).
 - Select measurements for the new line you added (columns ③, ④, ⑤, ⑥, ⑦ in Figure 26).
5. Optionally edit the selection of a session or measurement in an existing line.

The following table describes all the operations available in the **Metrics** tab.

Item	Description
1	Toggles between showing and hiding the measurement in the graph.
2	Enables selecting which sessions to display in the graph: <ul style="list-style-type: none"> • * - All sessions in the database • \$session – All the currently selected sessions • Any specific session you select in the list.
3	Enables selecting a category of statistics: <ul style="list-style-type: none"> • Total – Sums the values for each statistic across all the Agendas running during the test. • AgendaName::Total – Sums the values for each statistic across all instances of the specified Agenda running during the test. • AgendaName@LoadGenerator – Sums the values for each statistic across all instances of the specified Agenda running under the specified Load Generator during the test.
4	Depending on your choice in ③, enables selecting a sub-category of statistics.
5	Depending on your choice in ④, enables selecting a sub-category of statistics.

Item	Description
6	Depending on your choice in ⑤, enables selecting a sub-category of statistics.
7	Depending on your choice in ⑤, enables selecting a statistic.
8	Duplicates the line in the table.
9	Deletes the line.
10	Adds a new line in the table for defining a new measurement in the graph.

Defining the Axes and Grid Display

To edit a panel's axes and grid display:

1. Click the panel's title and select **edit**.
2. Select the **Axes & Grid** tab.

A pane appears, displaying the current axes and grid definitions. You can change any of the definitions, and the graph display changes accordingly.

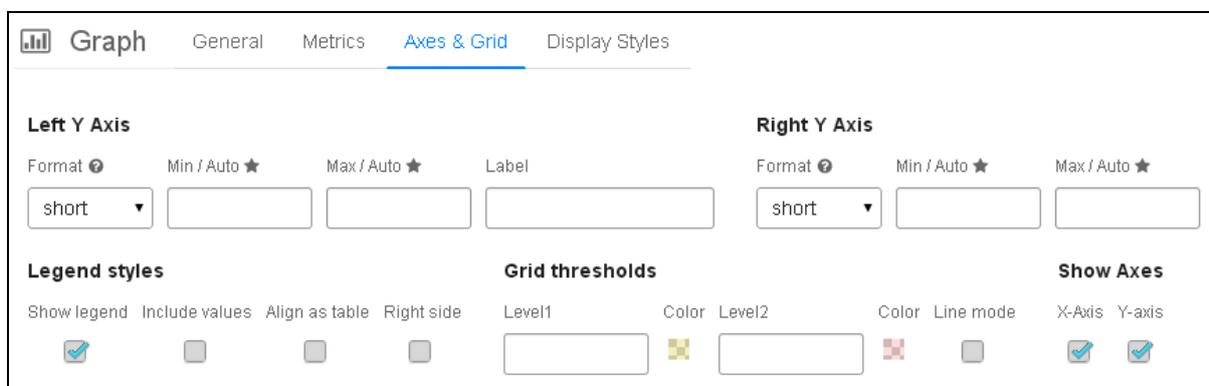


Figure 27: Graph Settings – Axes & Grid

Defining the Display Styles

To edit a panel's display styles:

1. Click the panel's title and select **edit**.
2. Select the **Display Styles** tab.

A pane appears, displaying the display definitions. You can change any of the definitions, and the graph display changes accordingly.

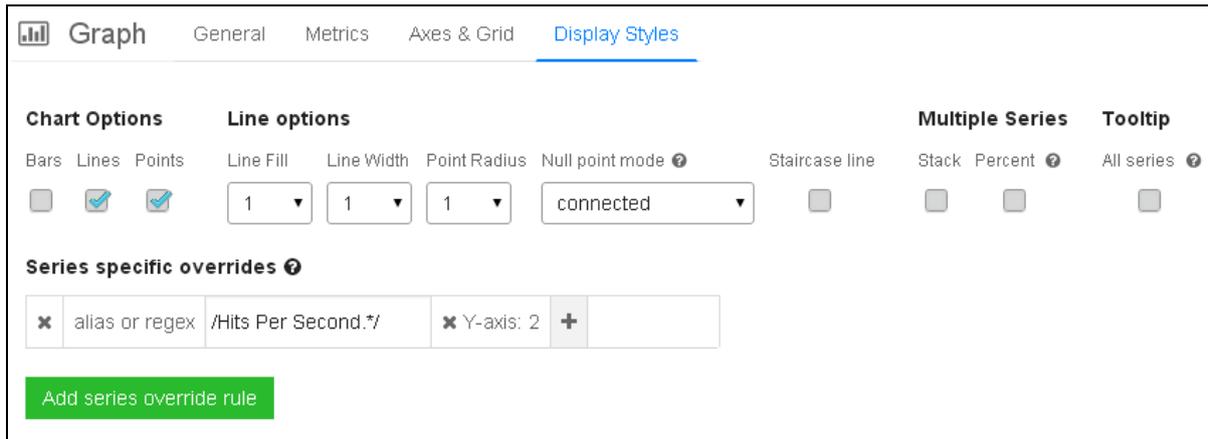


Figure 28: Graph Settings – Display Styles

Adding Panels

To add a panel in a row, click the green marker to the left of the row and select **Add Panel** (see Figure 16). Select the panel type: graph, text or log.

A new empty panel of the selected type appears in the row.

Define the display in the panel by editing the panel, as described above.

Duplicating a Panel

The duplication feature is useful if you wish to create a panel that is very similar to an existing one, or that is based on an existing panel.

To duplicate a panel:

1. Click the panel's title and select **duplicate**.

A new panel – a duplicate of the original – is created in the dashboard. You can now edit it as desired.

Deleting a Panel

To delete a panel:

1. Click the panel's title and select the **X** in the top right corner.

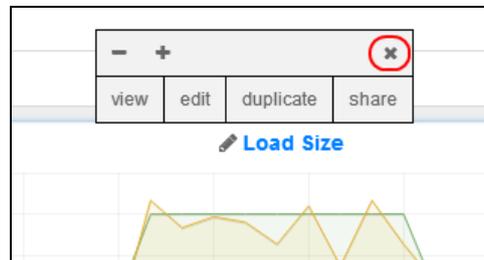


Figure 29: Delete Panel button

2. Confirm the deletion.

Customizing General Dashboard Settings

You can customize various general dashboard settings.

To configure general dashboard settings:

1. Click the Configure Dashboard icon in the top right of the dashboard header.



Figure 30: Configure Dashboard icon

A **Dashboard settings** pane appears, with multiple tabs.

2. Set the **General** settings as desired. For example, edit the dashboard's title.

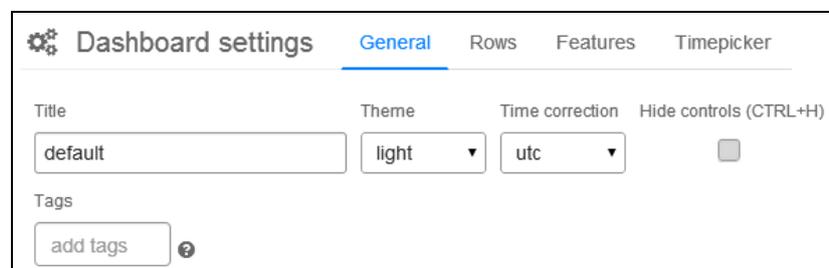


Figure 31: Dashboard Settings - General

3. Set the **Rows** settings as desired. You can:
 - Use the up and down arrows to switch between the locations of rows in the dashboard.
 - Use the red X to delete a row.

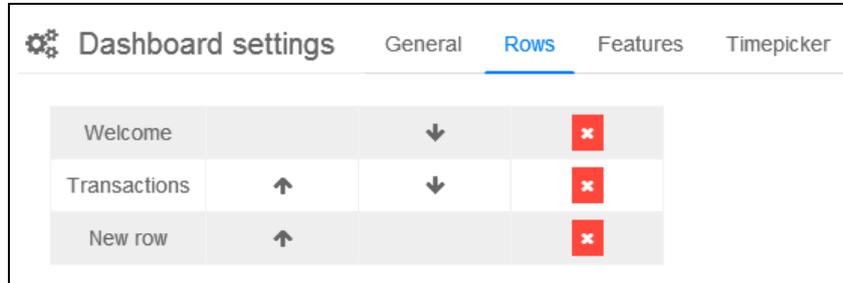


Figure 32: Dashboard Settings - Rows

4. Set the **Features** settings as desired.

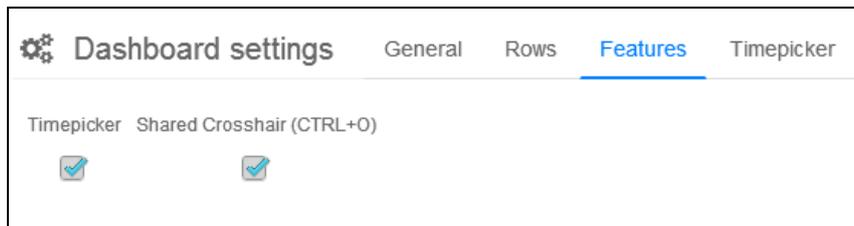


Figure 33: Dashboard Settings - Features

For example, if you select **Shared Crosshair**, then hovering over one the graphs causes a corresponding crosshairs to appear in all the graphs.



Figure 34: Shared Crosshair

5. Set the **Timepicker** settings as desired. You can set:

- **Relative time options** – Determines the options that will appear in the Time Filter dropdown (see Figure 14).
- **Auto-refresh options** - Determines the options that will appear in the **Time Filter** > **Auto-Refresh** dropdown (see Figure 15).

Dashboard settings General Rows Features Timepicker

Relative time options comma seperated Auto-refresh options comma seperated

5m,15m,1h,6h,12h,24h,2d,7d,30d 5s,10s,30s,1m,5m,15m,30m,1h,2h,1d

i For these changes to fully take effect save and reload the dashboard.

Figure 35: Dashboard Settings - Timepicker

Managing Dashboards

In Web Dashboard you can manage any dashboard saved in the database, as well as create new dashboards, delete dashboards, import and export dashboards in JSON format, and save your customized dashboards.

Loading a Dashboard

When you access Web Dashboard, the default Home dashboard is displayed. You can however select to display any other dashboard from the database, as described in this section.

Note that you can also import a dashboard that was saved as a JSON file, as described in *Importing a Dashboard* (on page 33).

To load a dashboard:

1. Click the **Open** icon.
A list of all the dashboards in the database is displayed.

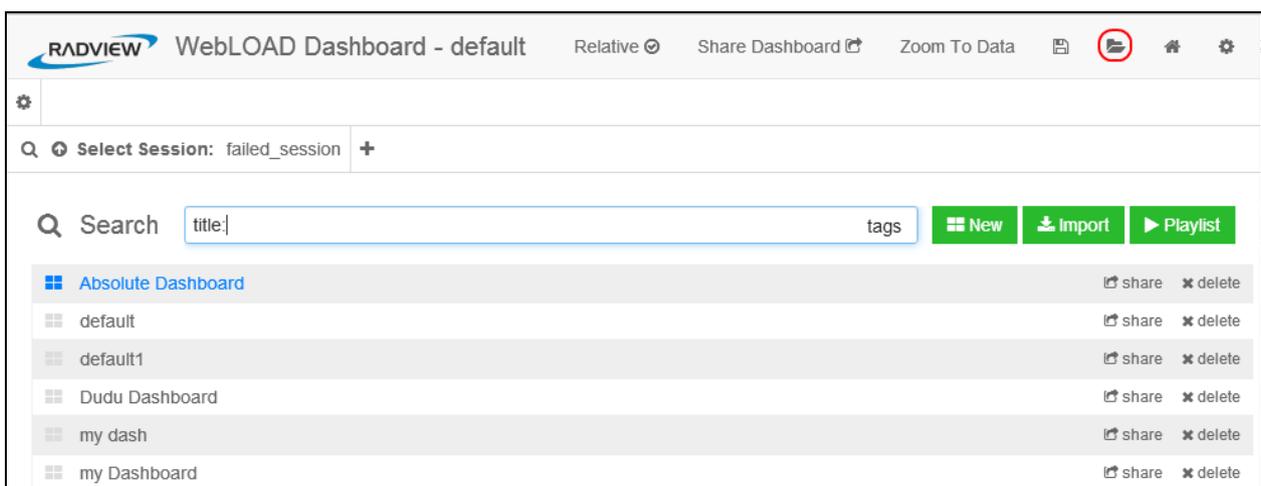


Figure 36: Dashboards List

2. Optionally enter a text string in the **Search** box to filter the display by dashboards whose name contains that text string.
3. Select a dashboard from the list. Web Dashboard displays the selected dashboard.

Exporting & Importing a Dashboard in JSON Format

You can export a dashboard as a JSON file, and import dashboards that were saved in JSON file format.

Exporting a Dashboard as a JSON File

To export a dashboard as a JSON file:

1. Select **Save > Export Dashboard**.

A JSON file of the dashboard is created in your Downloads directory. Its name is the dashboard name followed by the current timestamp.

2. Save the file to a desired location.

Note that you can view the contents of the JSON file in the dashboard. To do so, select **Save > Dashboard JSON**.

Importing a Dashboard

To import a dashboard that was saved in JSON file format:

1. Select **Open > Import**.



Figure 37: Importing a Dashboard

2. Click **Choose File**.
3. Specify the desired JSON file.

Web Dashboard displays the selected dashboard.

Creating a New Dashboard

You can create a new empty dashboard and define it as desired.

To create a new dashboard:

1. Select **Open > New**.

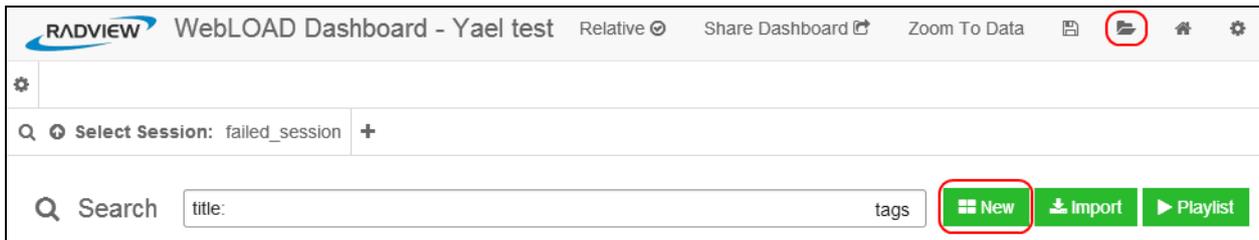


Figure 38: Create a New Dashboard

A new empty dashboard appears.

Define it as desired. Refer to *Customizing a Dashboard* (on page 19) for more information.

Saving your Customized Dashboard

After changing a dashboard as desired, you can save the customized dashboard to keep all the changes. Note that two changes are not saved: the selected sessions and the selected time filter.

To save a customized dashboard:

1. Click the **Save** icon.

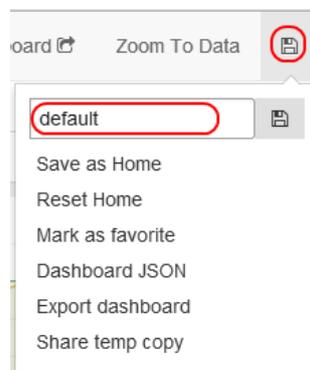


Figure 39: Saving a Customized Dashboard

2. Give your dashboard a unique name by editing the current name, which appears in the dashboard name field.

Note that you can share a customized copy without having to save it as a dashboard. To do so, select **Save > Share temp copy**.

Setting the Default (Home) Dashboard

You can set any desired dashboard as your Home (default) dashboard, and you can also revert to the global Web Dashboard default any time.

To set the Home dashboard:

1. Click the **Save** icon.

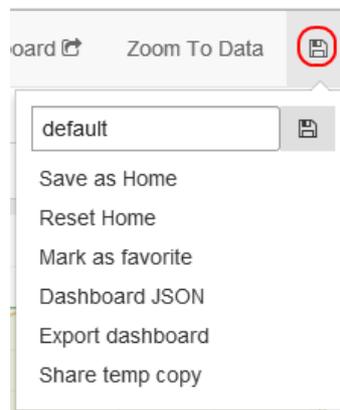


Figure 40: Setting the Home Dashboard

2. To save the current dashboard as the local default, select **Save as Home**.
3. To revert to the global default, select **Save > Reset Home**.

Deleting a Dashboard from the Database

To delete a dashboard from the database:

1. Click **Open**.

A list of all the dashboards in the database is displayed.

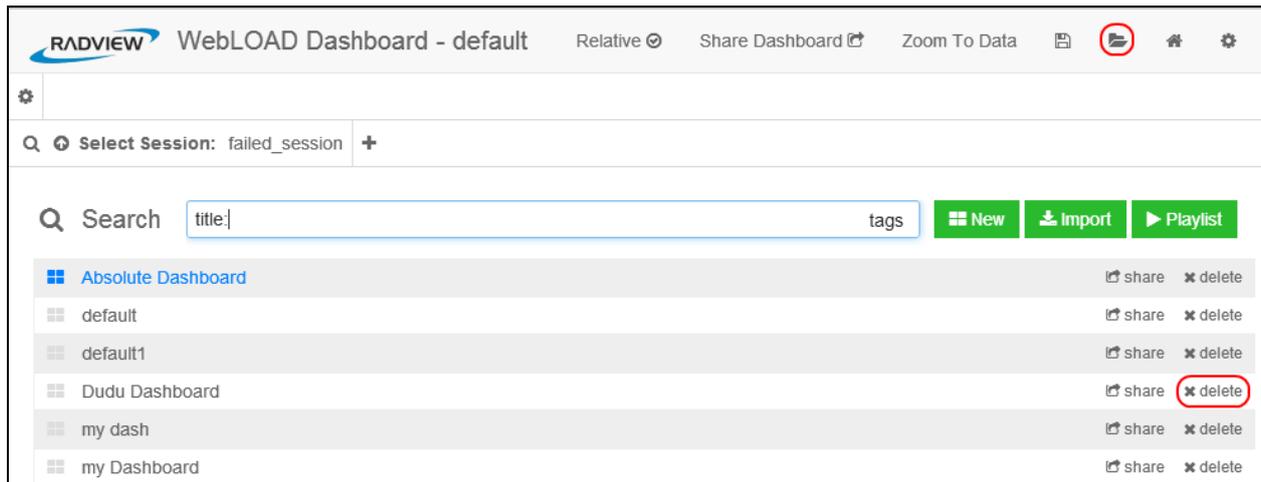


Figure 41: Deleting a Dashboard

2. Optionally enter a text string in the **Search** box to filter the display by dashboards whose name contains that text string.
3. Click **delete** in the row displaying the name of the dashboard you wish to delete.

Sharing a Dashboard or Panel

You can easily share an entire dashboard, or a panel, by providing the appropriate URL.

Sharing a Dashboard

To share a dashboard:

1. Select **Share Dashboard** in the dashboard header.



A Share window appears, displaying a link to the dashboard.

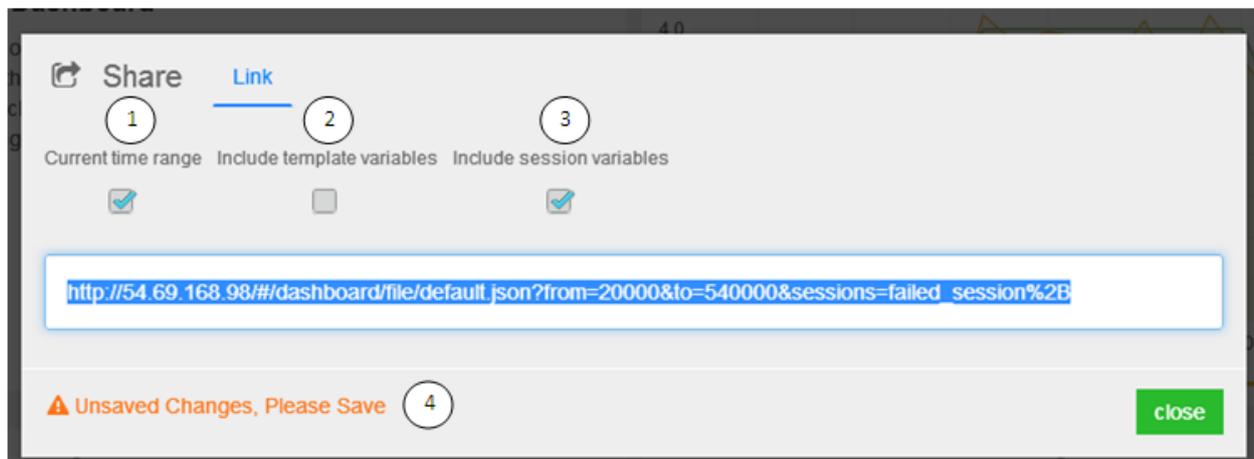


Figure 42: Share Dashboard window

Using the options in the Share window, you can produce a link to various variants of the dashboard, as described in the following table.

Item	Description
1	Determines whether the linked page will display data for the selected time range or for the entire session time range.
2	Determines whether the linked page will include template variables.

Item	Description
3	Determines whether the linked page will displays the data for the currently selected session(s), or for the sessions appearing when the dashboard was last saved.

Note that the linked page will not display any customizations you made to the dashboard if you did not save the customized dashboard. Therefore, if you made any customizations and did not save the dashboard, a warning appears at the bottom of the Share window (see item ④ in Figure 42).

You can however share a customized copy without having to save it as a dashboard. To do so, select **Save > Share temp copy**.

Sharing a Panel

Sharing a panel is very similar to sharing a dashboard, with the additional option of sharing the specific panel. Panel sharing is often useful when you want to share a specific segment (time range) of a panel.

To share a panel:

1. Optionally select a specific time range in the panel. Refer to *Changing the Span* (on page 24).
1. Click the panel's title and select **share**.

A Share window appears, displaying a link to the panel.

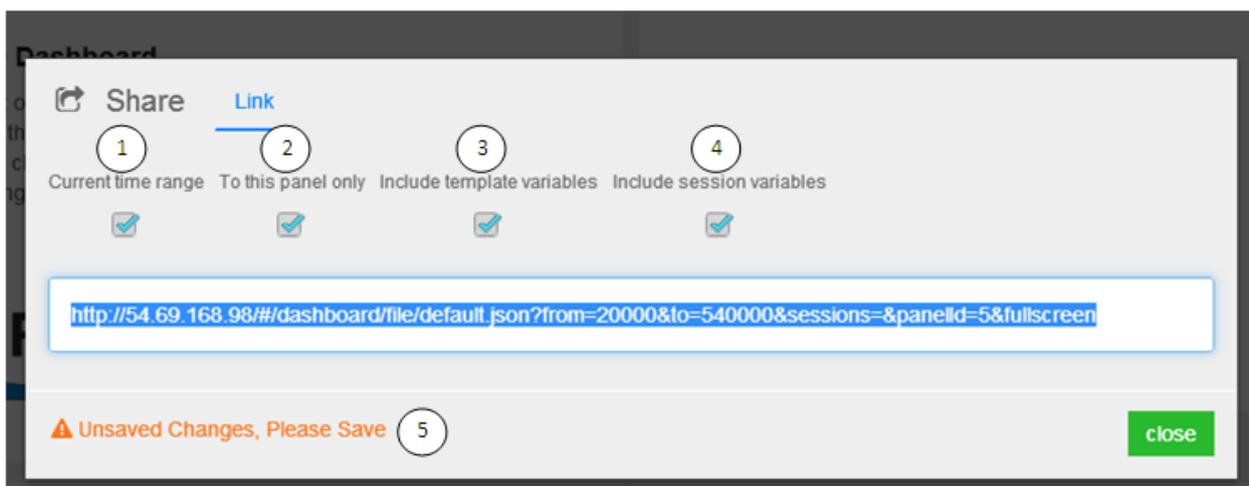


Figure 43: Share a Panel window

Using the options in the Share window, you can produce a link to various variants of the panel or dashboard, as described in the following table.

Item	Description
1	Determines whether the linked page will display data for the selected time range or for the entire session time range.
2	Determines whether the linked page will display this panel or the entire dashboard.
3	Determines whether the linked page will include template variables.
4	Determines whether the linked page will displays the data for the currently selected session(s), or for the sessions appearing when the dashboard was last saved.

Note that the linked page will not display any customizations you made to the dashboard if you did not save the customized dashboard. Therefore, if you made any customizations and did not save the dashboard, a warning appears at the bottom of the Share window (see item ⑤ in Figure 43).

Defining and Running a Playlist

You can run a playlist of specific dashboards. Only dashboards marked as favorites can be included in a playlist.

To define and run a dashboard playlist:

1. Mark the desired dashboards as favorites. To mark a dashboard as a favorite:
 - a. Load the dashboard, as described in *Loading a Dashboard* (on page 32).
 - b. Select **Save > Mark as favorite**.

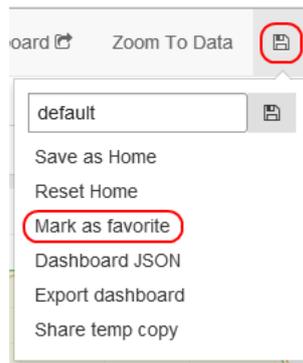


Figure 44: Marking a Dashboard as Favorite

2. Select **Open > Playlist**.



Figure 45: Selecting Playlist

3. A playlist pane appears, listing all the dashboards you marked as favorites. You can specify which dashboards to include in the playlist, and set the timespan between dashboard change.

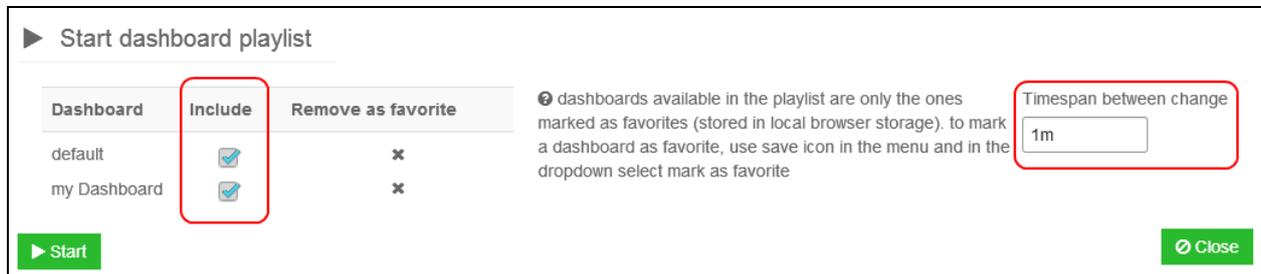


Figure 46: Specifying the Dashboards in the Playlist

4. Click **Start**.
The playlist start running. Note that most menu buttons and dashboard controls are hidden while the playlist is running.
5. To stop the playlist, click **Stop Playlist** at the top right of the page. A playlist continues running indefinitely until stopped.

Distributed Server Deployment

This appendix describes all the Web Dashboard deployment options. It first discusses the *Web Dashboard components*, goes on to describe the various *Deployment options*, and finally provides an *Installation procedure for distributed server deployment*.

Web Dashboard components

- WebLOAD Installation. This includes:
 - Session Results Database – The PostgreSQL database which is used by WebLOAD Analytics
 - WebLOAD Session Importer (optional) – for importing sessions to the database
- Dashboard.zip, which contains:
 - WebLOAD Dashboard back-end server – a Java based application server
 - WebLOAD Dashboard front end – front end static files
- ElasticSearch (optional) – a database to save/load changes in dashboards

Deployment options

Server deployment

The dashboard components are all deployed in a single, dedicated server.

Team member import their sessions to the server and access the results from their browser.

Personal deployment

The dashboard is lightweight enough that it can be fully deployed on a user's desktop machine for personal viewing of his Analytics database results.

Distributed server deployment

The dashboard components can each be deployed on a separate server if required.

Installation procedure for distributed server deployment

Step 1: Install a Session Results Database (PostgreSQL)

The session results database is a PostgreSQL database. It is the same database used by WebLOAD Analytics.

The easiest way to install and configure PostgreSQL is to install WebLOAD – the installation process automatically installs the database and configures it.

The other option is to manually download and install the database. After installation, the 'radview' database needs to be created by editing and running the script in C:\Program Files (x86)\RadView\WebLOAD\bin\database\deploy-database.bat

Configuring PostgreSQL for Remote Connections

This step is only required if you want to import sessions to the database directly from remote Analytics installations.

By default, PostgreSQL only allows connections from the same machine. To open the database to remote access:

1. Edit pg_hba.conf (default location: c:\Program Files (x86)\postgre\data). For example, to add access from all machines, add access control:

```
host      all      all      0.0.0.0/0 md5
```
2. Edit postgresql.conf (default location: c:\Program Files (x86)\postgre\data). Set the listen address, for example, to bind to all local address:

```
listen_addresses = '*'
```
3. Open the database port (by default 5432) in the firewall.
4. Restart the database service.

Refer to the PostgreSQL documentation for more details.

Step 2: Install the WebLOAD Dashboard Server

The dashboard server is included in the dashboard.zip. The first step is to extract the zip somewhere (e.g., C:\dashboard). The directory structure and main files are:

- **dashboard.bat** – main execution file. Contains setting for App server
- **dashboard.jar** – App Server jar
- **static** – Front-end code, deployed in a Web Server which is included in the zip package
- **config.js** – Front End configuration file

Installing the Back-end Application Server

The Dashboard Application Server is self-contained in a single jar called **dashboard.jar**.

To start it, execute **java -jar dashboard.jar**, or call **dashboard.bat**.

By default, the server runs on port 8080.

The server uses Java options for configuration. Change them, for example, when a remote postgresSQL database is used instead of the local one. (See **dashboard.bat** for options.)

Installing the WebLOAD Dashboard front-end server

The front end client files are static pages, which can be found in the '**static**' folder after extracting the **dashboard.zip**. They can optionally be served from any web server (IIS, Apache, etc.).

The back-end application server is shipped with a built in web-server that is pre-configured to deliver the static content from the '**static**' folder.

The front-end configuration file is "**config.js**" and should be edited when using a back-end server or ElasticSearch server that is not on the same host.

Step 3: Install ElasticSearch

Dashboards can be customized and saved. The customized dashboard can be saved and shared in an ElasticSearch database.

To install:

1. Download the zip from <http://www.elasticsearch.org/download>.
2. Extract the zip.
3. Run **bin/elasticsearch.bat**.

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