

IBM Cognos Analytics  
Version 11.2

*What's New*



©

## Product Information

This document applies to IBM Cognos Analytics version 11.2.0 and may also apply to subsequent releases.

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# Chapter 1. New and changed features

The following topics document new and changed features in IBM Cognos Analytics with Watson.

## Release 11.2.4 FP3 - January 2024

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This section describes new and changed features in IBM® Cognos® Analytics with Watson 11.2.4 Fix Pack 3.

### Important:

Do not upgrade your 11.2.4 FP3 content to version 12.0.0, 12.0.1, or 12.0.2. If you do so, you may need to run specialized scripts before you can do another upgrade to version 12.0.3 or later. If you want to upgrade 11.2.4 FP3 content to version 12.0.x, you must wait until 12.0.3 or later to do so.

### Reason:

Schema changes are made in the content store of 11.2.4 FP3 (and future releases) to support faster processing of content retention rules. Therefore, when you upgrade from 11.2.4 FP3 (or later), you must upgrade to a release with the same content store enhancements, for example, 12.0.3 (or later).

You can still upgrade any 11.2.x content **other than** 11.2.4 FP3 to any version of 12.0.x.

## Faster processing of content retention rules

As of Cognos Analytics 11.2.4 FP3, content retention rules are applied more efficiently. This is the result of the retention rules being applied at different times than in previous releases.

### A new method of processing

Asset owners can set retention rules on stored content that determine whether objects should be retained or deleted from the Content Store. Previously, retention rules were applied immediately: either when an asset's retention rule was updated or when a new object, governed by a retention rule, was added to the Content Store. This processing method resulted in Add or Update requests taking a long time to complete. In some cases, when many objects were flagged for removal, some objects were not removed, even though they met the retention criteria.

As of 11.2.4 FP3, retention rules are not applied immediately. They are instead applied as part of background processes that run at a regular interval.

### Benefits

The processing of retention rules in this manner provides the following benefits:

- Add or Update requests are faster.
- Delete operations are done in small batches, reducing the transaction size.
- Expired objects (controlled by duration-based retention rules) are now removed on time (roughly within 10 minutes).

**Note:** You may occasionally see more retained objects than are specified by your retention rules. These extra objects will be removed the next time that the background processing runs (the default interval is 10 minutes).

### Tuning

For tuning purposes, the administrator can adjust the interval that the background processes are run. This is accomplished by changing the values of these two Content Manager advanced settings:

- CM.RETENTIONS\_EXPIRATION\_CHECK\_INTERVAL
- CM.RETENTIONS\_OUT\_OF\_SCOPE\_CHECK\_INTERVAL

## Upgrade implications

As a result of the new retention processing feature, the 11.2.4 FP3 Content Store schema is at a higher version and therefore not compatible with the lower-version schema in releases 12.0.0, 12.0.1, or 12.0.2.

### Important:

Do not upgrade your 11.2.4 FP3 content to version 12.0.0, 12.0.1, or 12.0.2. If you do so, you may need to run specialized scripts before you can do another upgrade to version 12.0.3 or later. If you want to upgrade 11.2.4 FP3 content to version 12.0.x, you must wait until 12.0.3 or later to do so.

### Reason:

Schema changes are made in the content store of 11.2.4 FP3 (and future releases) to support faster processing of content retention rules. Therefore, when you upgrade from 11.2.4 FP3 (or later), you must upgrade to a release with the same content store enhancements, for example, 12.0.3 (or later).

You can still upgrade any 11.2.x content **other than** 11.2.4 FP3 to any version of 12.0.x.

## Setting retention rules on Content Store objects

You can set retention rules for your content by specifying these settings:

- the maximum number of versions of an asset that can be retained
- the maximum number of days or months that an asset is retained

### Properties

The screenshot shows the 'Report' tab in the administration console. It has four tabs: 'General', 'Report', 'Schedule', and 'Permissions'. The 'Report' tab is active. There is a 'Set values' button. Below it, there are several settings:

- 'Report' dropdown menu.
- 'More options' expand/collapse button.
- 'Display of run history' section with a dropdown set to '5' and a dropdown set to 'Occurrences'.
- 'Display of report output versions' section with a dropdown set to '1' and a dropdown set to 'Occurrences'. A menu is open showing 'Occurrences', 'Day(s)', and 'Month(s)'.
- 'Default portal action' dropdown set to 'View most recent report'.
- 'Rows per page in HTML reports' dropdown set to 'Default'.

- Set the maximum number of occurrences of run history or report versions that you can save
- Set the maximum duration that a run history item or report version is retained before it is deleted

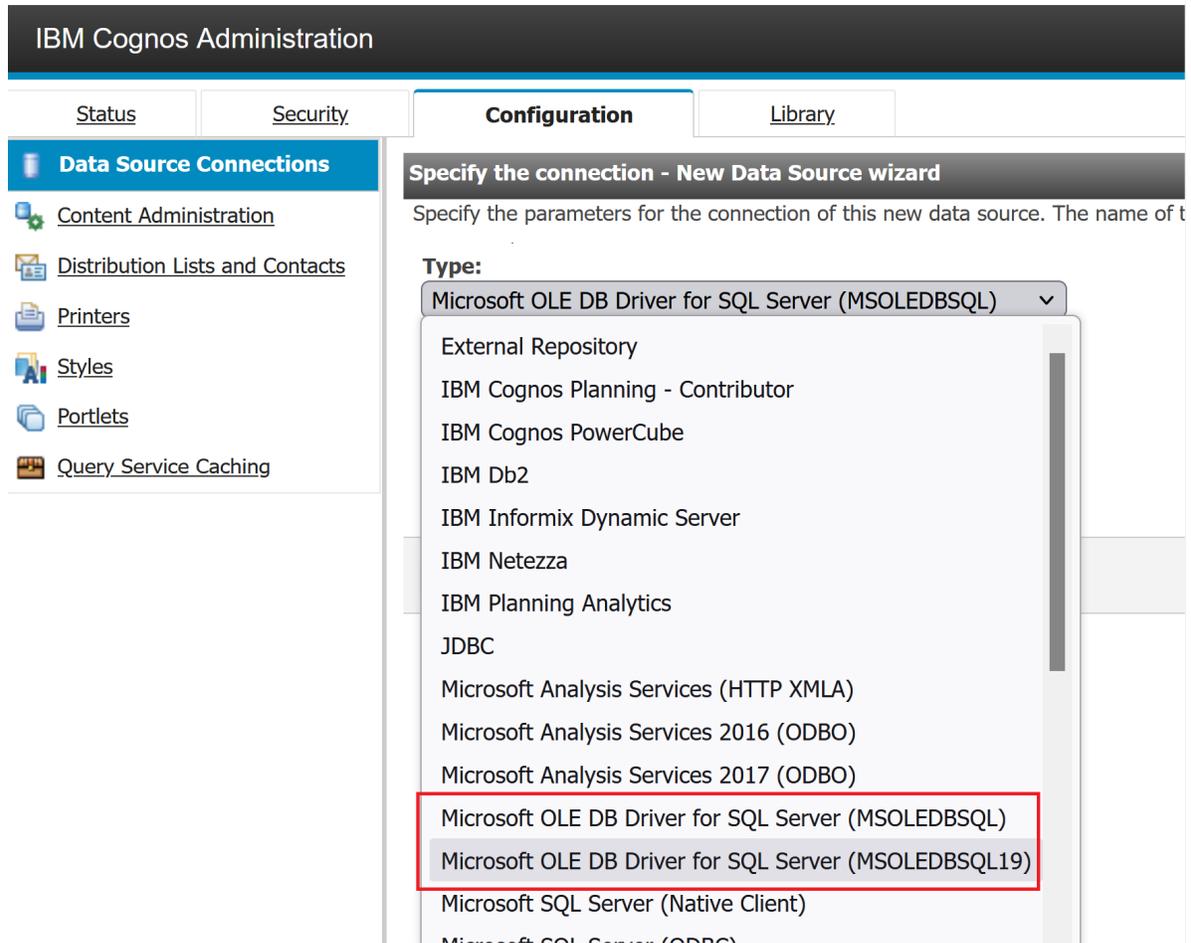
## Support for Microsoft OLE DB Driver for SQL Server

Cognos Analytics supports connections to an MS SQL Server database using the Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).

In the Administration console, when you click **Data Source Connections > New Data Source**, enter a name, and then click the **Type** menu, the following two options are available:

- **Microsoft OLE DB driver for SQL Server (MSOLEDBSQL)**

- **Microsoft OLE DB driver for SQL Server (MSOLEDBSQL19)**



**Note:** Prior to the release of Cognos Analytics 11.2.4 FP3, IBM successfully tested connections to MS SQL Server versions using Microsoft OLE DB Driver 19 for SQL Server 19.3.2.0. For more information, see [Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.4 FP3](#).

## Supported Software Environments page for release 11.2.4 FP3

Supported Software Environments information is available for IBM Cognos Analytics with Watson 11.2.4 Fix Pack 3.

You can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.4 FP3.

Visit the 11.2.x Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>, find the 11.2.4 FP3 table, and then click the links to run the compatibility reports.

## CJAP namespace for Easy Install

As of release 11.2.4 FP3, Cognos Analytics no longer uses Apache Directory (ApacheDS) to create the **Cognos Users** namespace provided with Easy Install. Instead, this namespace is created using a Custom Java Authentication Provider (CJAP), which is included with the Cognos Analytics installer.

This change affects Easy Install only. If you install the product using a custom installation or if you install on a platform other than Windows, the installation is the same as before.

## New installations via Easy Install

For a new installation, the steps are the same as in previous releases. During Windows Easy Install, you are prompted for an administrator user ID and password. This user ID is the initial account created in the **Cognos Users** namespace. You can add additional users to this namespace using the Manage component, as before.

## Upgrading a previous Easy Install instance

If you are upgrading a previous Easy Install instance, the entire process is performed automatically. Because ApacheDS is being removed, Easy Install instances with a version prior to 11.2.4 FP3 have their data exported to an LDAP Interchange Format (LDIF) file before installation begins. After version 11.2.4 FP3 or later is installed, the user accounts are restored from the LDIF File.

All accounts created in the ApacheDS-based **Cognos Users** namespace and any data they created will be available in the CJAP-based namespace exactly as they were prior to the upgrade.

For more information, see "Easy Install" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Vendor-supported driver versions tested with 11.2.4 FP3

IBM Cognos Analytics with Watson 11.2.4 FP3 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.4 FP3 [Relational] [OLAP]* (<https://www.ibm.com/support/pages/node/6441017#11.2.4fp3r>).

## dls.max.output.size.bytes

A new advanced setting, `dls.max.output.size.bytes`, specifies the maximum size of a report output, in bytes, that the delivery service will allow.

For more information, see "Delivery service advanced settings" in the *IBM Cognos Analytics Administration and Security Guide*.

## New prerequisite for Easy Install

Before you run a Cognos Analytics Easy Install, ensure that you run Windows Update to apply the latest updates and then restart your computer.

For more information, see "Easy Install" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## New prerequisite for Transformer installation

Before you install Cognos Analytics Transformer, ensure that Microsoft Visual C++ Redistributable 2015-2022 (or later) is installed.

For more information, see "System requirements for Cognos Transformer" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Install Transformer by using the InstallAnywhere wizard

IBM Cognos Transformer can now be installed by using the **InstallAnywhere** wizard.

The same wizard is used to install IBM Cognos Analytics with Watson server.

You cannot upgrade a previous (11.0.0.704 or earlier) version of Transformer with this installation.

As with the previous versions, the new Transformer kits cannot be installed to the same directory as the Cognos Analytics server.

The choice of locale is handled right at the start. After the installation location is set, the installation process starts. Component selection is not available in this version. The process ends with automatic post-installation scripts and confirmation that the process has completed.

For more information, see "Installing IBM Cognos Transformer" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Alternate web technology support for Framework Manager authentication (Microsoft Edge WebView2)

Cognos Analytics Framework Manager now supports using Microsoft Edge WebView2 for authentication through a new feature flag. Enabling this feature flag allows Framework Manager to be compatible with newer web standards when you authenticate with the Cognos Analytics server.

## Release 11.2.4 FP2 - July 2023

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This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.4 Fix Pack 2.

### FIPS mode now available on all platforms

Federal Information Processing Standards (FIPS) is an American cryptographic standard that is published by the National Institute of Standards and Technology (NIST). IBM Cognos Analytics is not FIPS-certified. However, Cognos Analytics NodeJS modules on all platforms now use FIPS-certified security modules by default. When using only FIPS-certified security modules, Cognos Analytics is in "FIPS mode".

In previous releases, only Linux-based NodeJS modules can be used in FIPS mode.

**Note:** For more information, see "Enabling FIPS mode" in the *Cognos Analytics Installation and Configuration Guide*.

### New query hint `dmr.pushdownCustomValueToRelational`

A report author can apply a new query hint to dimensionally-modeled relational (DMR) reports if the SQL subquery returns a much larger number of rows than expected.

By default, the file `dmr.properties` contains the following line:  
`pushdownCustomValueToRelational=false`. As of release 11.2.4 FP2, for the current report only, you can disable this setting by specifying the name-value pair `dmr.pushdownCustomValueToRelational=true` in the **Advanced hints** property of a query in the report. With this setting, the MDX engine will try to push aggregation over the descendants of unprojected levels to the database. Where applicable, this will greatly reduce the number of rows that are aggregated by the MDX engine.

For more information, see "Setting query prioritization" in the *Cognos Analytics Administration and Security Guide*.

### Supported Software Environments page for release 11.2.4 FP2

Supported Software Environments information is available for IBM Cognos Analytics with Watson 11.2.4 Fix Pack 2.

You can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.4 FP2.

Visit the 11.2 Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>.

## Vendor-supported driver versions tested with 11.2.4 FP2

IBM Cognos Analytics with Watson 11.2.4 FP2 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.4 FP2 [Relational] [OLAP]* (<https://www.ibm.com/support/pages/node/6441017#11.2.4fp2r>).

## Upgraded Progress DataDirect JDBC driver

Due to a security vulnerability in Progress DataDirect AutoREST driver version 6.0.0.004291, Cognos Analytics 11.2.4 FP2 includes an upgraded Progress driver: version 6.0.1.005690.

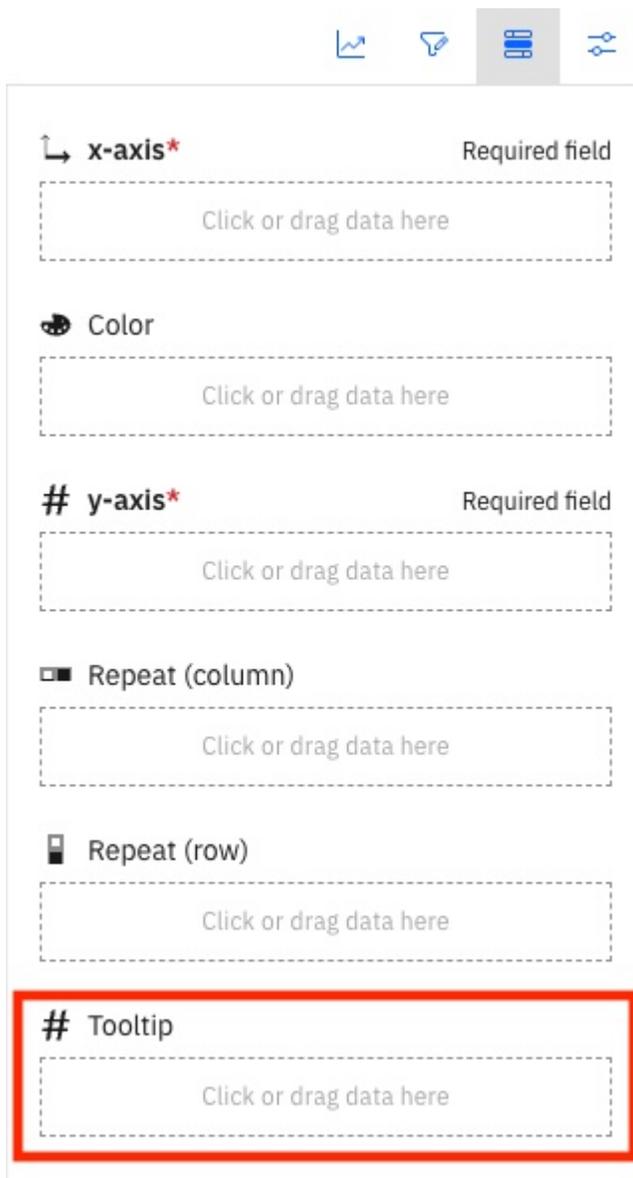
**Important:** Progress driver version 6.0.1.005690 supports new Progress features. However, these new features are *not* supported by Cognos Analytics 11.2.4 FP2. Cognos Analytics 11.2.4 FP2 supports only features described in the existing *Progress® DataDirect® Autonomous REST Connector for JDBC™ User's Guide for Partners*.

For more information, see "Progress DataDirect Autonomous REST connections" in the *IBM Cognos Analytics with Watson Manage Guide*.

## Showing additional data values in tooltips

You can display additional measures as tooltips when hovering over a point in the visualization.

Click the **Fields** icon  to open the **Fields** pane, then drag the one or more measures with the corresponding values you want to show to the **Tooltip** data field. You can also click an empty **Tooltip** data field and select the measures that you want to display.



For more information, see "Showing additional data values in tooltips" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

## Release 11.2.4 FP1 - March 2023

This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.4 Fix Pack 1.

### Supported Software Environments page for release 11.2.4 FP1

Supported Software Environments information is available for IBM Cognos Analytics with Watson 11.2.4 Fix Pack 1.

You can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.4 FP1.

Visit the 11.2 Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>.

## Vendor-supported driver versions tested with 11.2.4 FP1

IBM Cognos Analytics with Watson 11.2.4 FP1 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.4 FP1 [Relational] [OLAP]* (<https://www.ibm.com/support/pages/node/6441017#11.2.4fp1r>).

## Release 11.2.4 - December 2022

This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.4.

### Multiple components

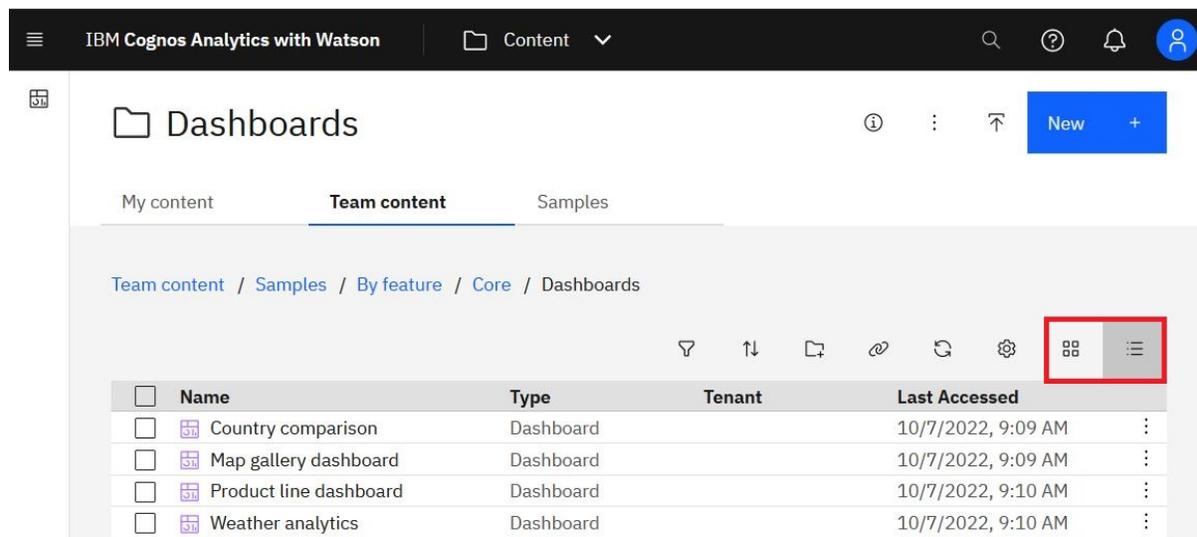
Learn about enhancements to the user interface, training materials, and features that affect multiple IBM Cognos Analytics with Watson components.

### Configuring the default view for the content page

The content page can be displayed in the tile view or list view. You can configure any of these views as the default view.

Use the **Content.defaultView** advanced settings to configure the default view for the content page.

In the following image, the content page is displayed in the list view.



For more information, see the "Configuring the default view for the content page" in the *IBM Cognos Analytics with Watson Manage Guide*.

### Natural Language Processing model upgraded to Stanford CoreNLP 4.5.1

IBM Cognos Analytics with Watson uses the Stanford CoreNLP suite as its natural language processing model in English, French, and Spanish. In Cognos Analytics 11.2.4, the CoreNLP suite was upgraded from version 3.7.0 to 4.5.1.

While this upgrade has no significant impact, over time you might see differences in:

- Suggested column **Usage** type and **Aggregate** type for the enriched data

Cognos Analytics automatically analyzes data sets and suggests the column **Usage** type and **Aggregate** type for the enriched data. **Usage** and **Aggregate** type are suggested based on calculations from multiple factors, such as name-entity recognition (column name), statistical data distribution (data sampling), and concept mapping. A change in any one of these factors can contribute to a different result.

With the upgrade to CoreNLP 4.5.1, you might eventually see **Usage** type suggestions that differ from previous versions. For example, you might see the **Usage** property attribute instead of `identifier`.

**Note:** Any data that was enriched prior to the upgrade will not impact the **Usage** and **Aggregate** type.

As these are suggestions, you can customize them to the **Usage** type you want to use.

- Suggested questions from the Assistant

When using the Assistant in Cognos Analytics, you can enter **Suggest questions** to receive a set of questions that you can ask. These suggestions are relevant to the context of your data source and industry.

Using the new version of CoreNLP, you might eventually receive different suggestions than in previous versions.

You can click one of the suggestions to ask that question or ask a different question.

- Suggested interesting fields, influencers, and starting points

Cognos Analytics classifies certain table columns as interesting fields, influencers, and starting points to enable you to explore relationships in your data.

Due to the eventual different NLP classification, the user might receive different suggestions than the ones made in previous releases.

## My API keys

A new page, **My API keys**, is available from the **Personal** menu. It allows you to create and manage API keys that you can use with other Cognos Analytics API commands.

For more information, see "Creating personal API keys" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Content sharing to multiple recipients in Microsoft Teams

In Cognos Analytics 11.2.4, when you share a report or dashboard via Microsoft Teams, you can now send the content to up to 10 channels, group chats, or individual recipients. Each recipient receives their own Direct Message that contains the content you are sharing.

For more information, see "Sharing content from the canvas" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

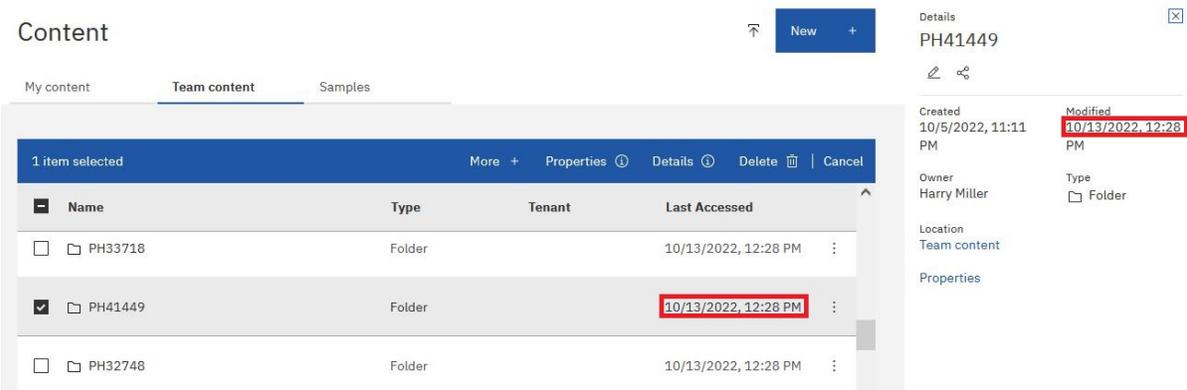
## Changed modification time on folders and packages after an upgrade

When you upgrade Cognos Analytics to version 11.2.4, the modification time property on some folders and packages is automatically changed to the time of the first **Cognos Analytics** service startup after the upgrade.

This property change applies only to folders and packages which had the [object capabilities](#) explicitly defined.

**Note:** As of Cognos Analytics 11.2.4, object capabilities can also be defined for data modules, uploaded files, and data sets. However, this upgrade doesn't include these objects because they didn't have the object capabilities defined for them in previous versions of the product. For more information, see "[Object capabilities on data modules, data sets, and uploaded files](#)" on page 29.

The modification time is shown in the **Last Accessed** column of the **Content** page, and as the **Modified** property value in the **Details** panel.



This change is consistent with the standard Content Manager upgrade behavior. For more information, see "Changed modification time property on objects after an upgrade" in the *IBM Cognos Analytics with Watson Installation and Configuration* guide.

## Assistant

Ask questions, in natural language, to find, explore, and gain quick insights into your data.

### Support for Assistant capabilities on data sources

The **Use Assistant** capability can now be set at the source level. Previously, capability to use the Assistant was set at the user level. When the **Use Assistant** capability is enabled on a source, you can interact with the source in the Assistant and ask questions or create a visualization or dashboard.

When you open the assistant panel, the source is set to the active data source that is in Dashboard or Explore, depending on which component you open the assistant panel from. If you do not have **Use Assistant** capability for the source, you might be prompted to select a source before you can proceed.

If you do not have **Use Assistant** capability on a specific source, when you enter `Show source <source name>`, the Assistant displays a message indicating that the package cannot be used.



Auto-suggestions for `Show source <source name>` will include the data source as an option, however, you won't be able to interact with the source.

The list of sources returned by `Show sources` includes those sources which you do not have access to in the Assistant.

## Dashboards

Use IBM Cognos Analytics with Watson dashboards to discover key insights about your data and monitor events or activities at a glance.

### Narrative insights in dashboard visualizations

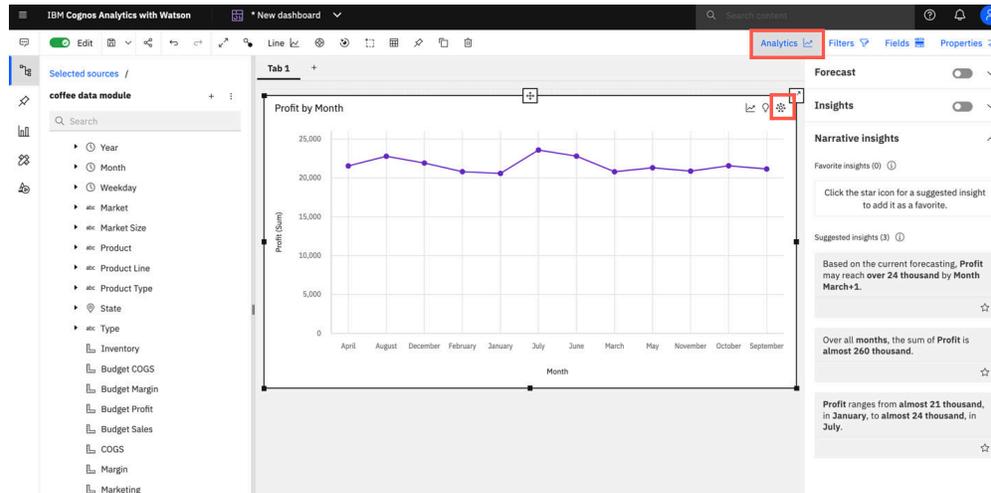
IBM Cognos Analytics now displays narrative insights in dashboard visualizations that help you see meaningful aspects of the chart's data in natural language.

Narrative insights are different from the existing insights that summarize a visualization in dashboards and the details that display in explorations.

Narrative insights derive and leverage data from outside the visualization (such as by using other measures, categories, or time dimensions) to explain or highlight potential drivers, underlying causes, or further breakdown data.

The new auto-generated narrative insights are in natural language, making it easier to read and understand these insights.

You can see narrative insights for any eligible visualization by clicking the **Narrative insights** icon  in the visualization or by expanding the **Narrative insights** section on the **Analytics** tab.



Dashboard authors can mark a narrative insight as favorite and choose the order in which their favorites display. When the dashboard is shared, other users can see the favorited narrative insights and up to three additional insights suggested by Cognos Analytics.

Narrative insights are dynamic and change as the data in the visualization changes. Narrative insights, including favorited insights, don't display if they are no longer relevant to the data in the visualization.

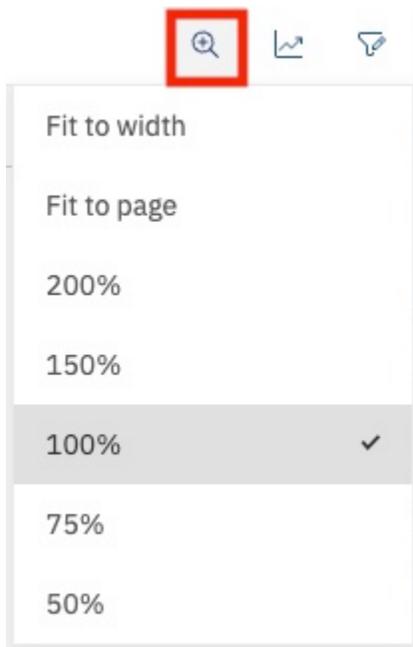
For more information, see [Narrative insights in visualizations](#).

## Zoom levels on the dashboard canvas

In Cognos Analytics dashboards, you can specify a zoom level in which view the dashboard canvas.

When the dashboard is in **View** mode, use the **Zoom** icon  in the toolbar to specify one of the following zoom levels when viewing the dashboard canvas:

- Fit to width: Resets the view of the dashboard to fit the width of your canvas
- Fit to page: Resets the view of the dashboard to fit the entire canvas
- Percentage: 200%, 150%, 100%, 75%, or 50% of the actual size of the dashboard



For more information, see "Specify the zoom level of the canvas" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

The default zoom level is 100%, but you can change this in the **Properties** icon . The zoom controls are available only on dashboards with the **Layout positioning** field set to **Absolute**.

**Dashboard properties**

^ Canvas

Layout positioning **Absolute** ▾

**Page zoom (Absolute layout only)**

Default zoom value **100%** ▾

**Page size**

Preset **Screen 16:9** ▾

Fit page

Width **1280 px**      Height **720 px**

**Grid**

Show grid

Snap to grid

The zoom level that you specify in the **Absolute** layout positioning within the dashboards does not apply when using the full screen mode. Full screen mode defaults to **Fit to Page**. You can further configure the zoom level when you are in full screen mode.

When the dashboard is in **Edit** mode, the zoom level is set to 100%, which you cannot change.

For more information, see "Setting the default zoom level" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

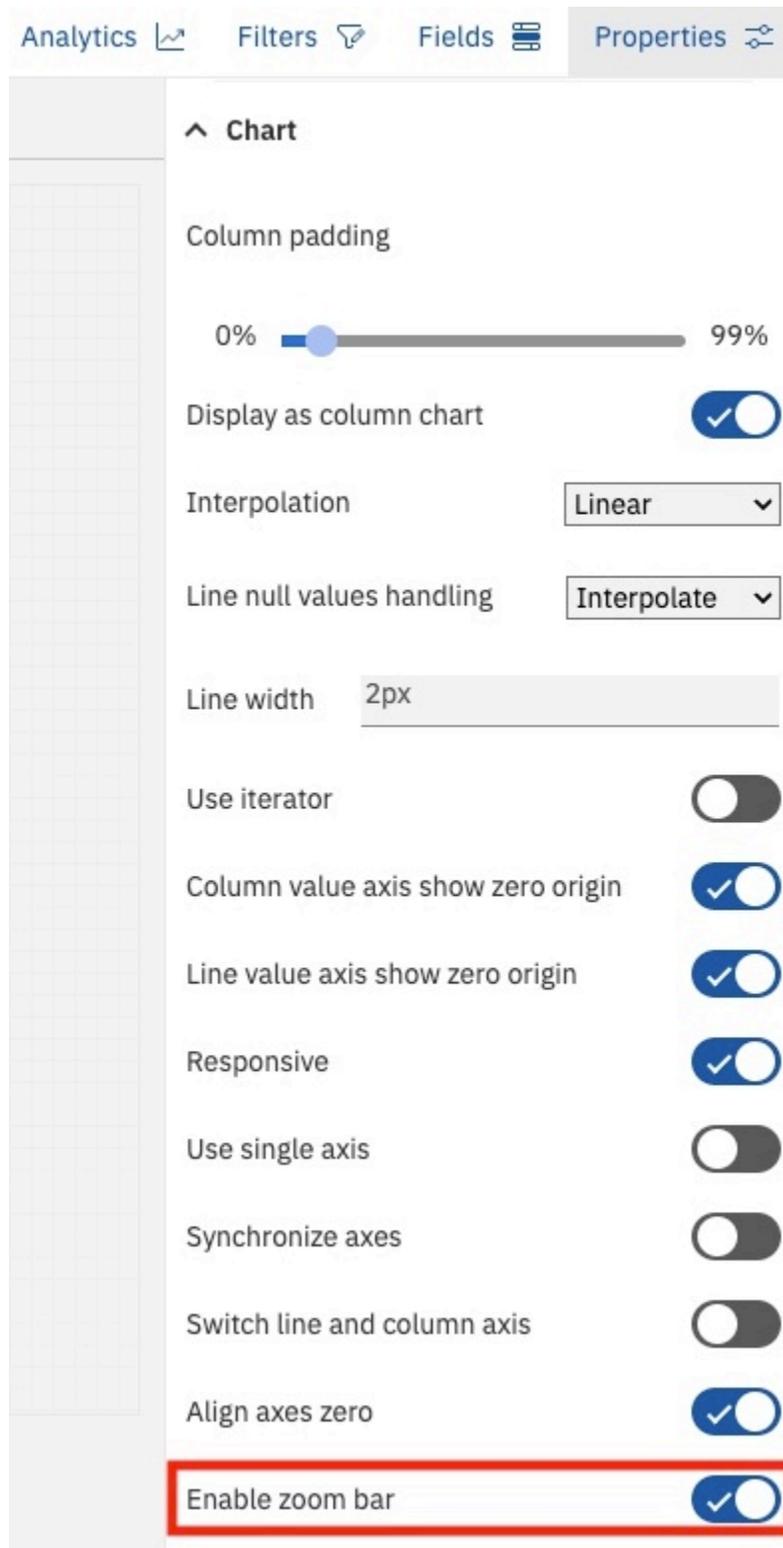
## Zoom bar in bubble, line and column, and scatter visualizations

The zoom bar allows for horizontal scrolling in a visualization.

The property **Enable zoom bar** is added to the **Chart** section of the **Properties** icon  for bubble, line and column, and scatter visualizations. When this property is enabled, a bar with a left and right handle is added to the chart. Users can drag the handle on the bar to perform horizontal zooming.

When the zoom bar is enabled, mouse scrolling is disabled.

In the following image, this property is enabled for a line and column visualization.

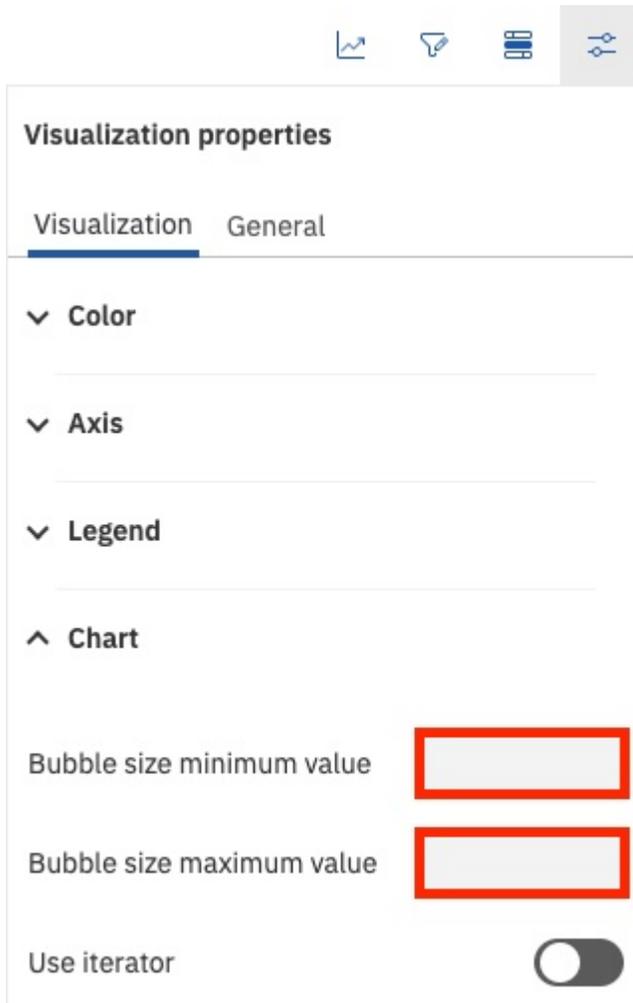


For more information, see "Zooming in and out" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

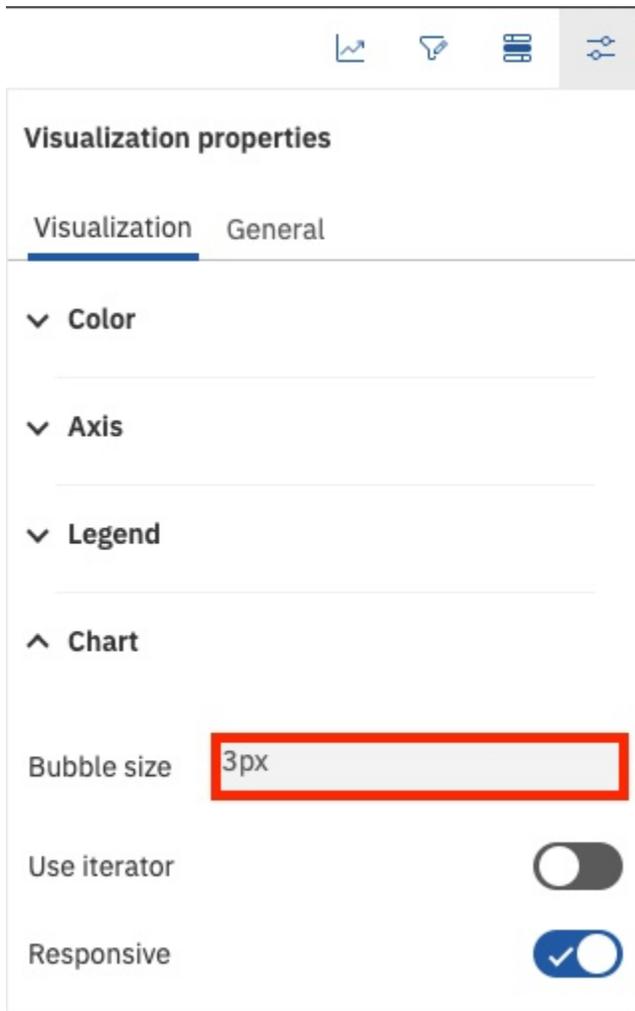
## Bubble size limits

You can specify bubble size limits in bubble and scatter visualizations.

In bubble visualizations, specify the minimum and maximum values for the bubble size in the **Properties** icon . Bubble sizes for values that are below the minimum size appear as the minimum size, while bubble sizes for values that are above the maximum size appear as the maximum size.



In scatter visualizations, specify the bubble size in the **Properties** icon . All points in the scatter visualization display at this specified size. The default bubble size in scatter visualizations is **3px**.

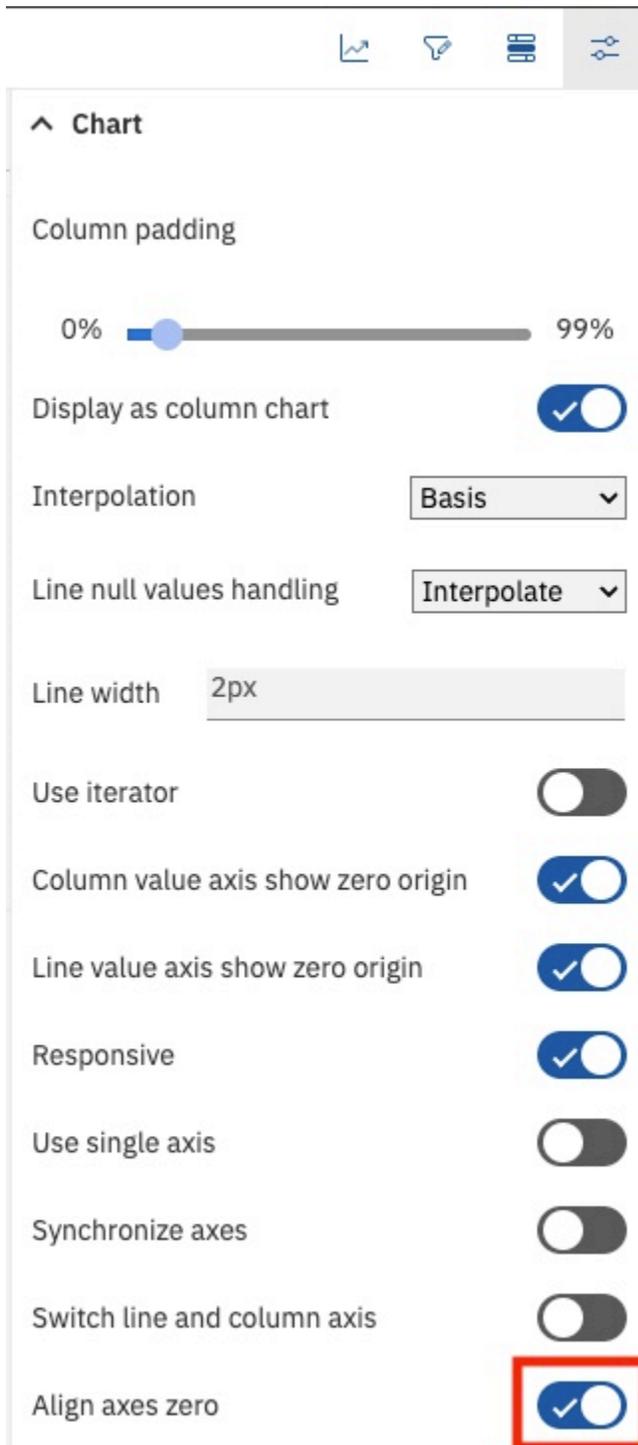


## Alignment position for zero in line and column visualizations

In line and column visualizations, you can control whether or not the line and column sections have zero in the same position.

Disabling the zero alignment position (that is, specifying that the line and column sections do not have zero in the same position) makes the line and column values independent and can make the relevant values more visible in certain scenarios.

In line and column visualizations, select whether you want to align the zero position by selecting the **Align axes zero** toggle in the **Properties** icon <sup>⌘</sup>



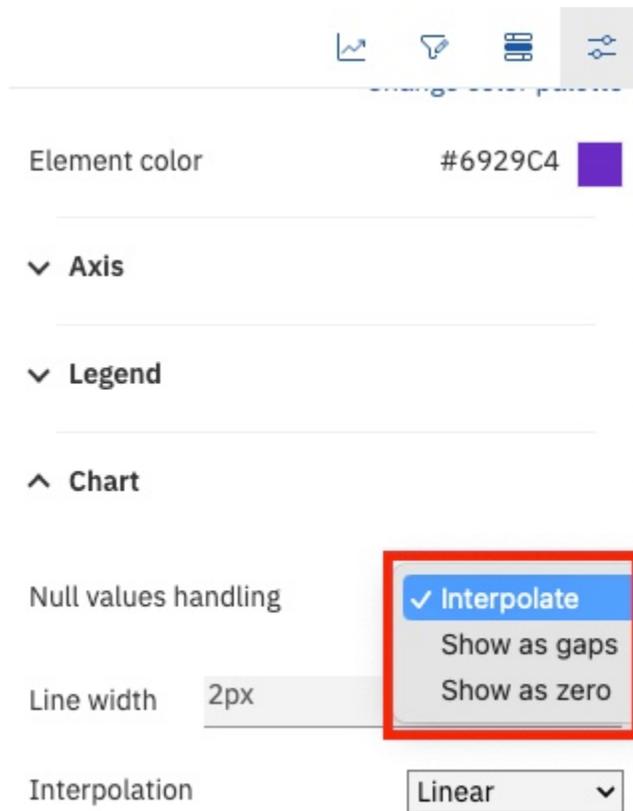
If the toggle is enabled, the zero value for the lines and columns are on the same axes in the visualization. If the toggle is disabled, the zero value might be on different axes in the visualization if doing so allows you to view more relevant data. The toggle is enabled by default for backwards compatibility. If you do not want to use this feature, you do not have to change any settings.

For more information, see "Value axis options" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

## Handling missing values in line visualizations

You can specify how line visualizations display missing values.

In line visualizations and line and column visualizations, specify how lines display missing values on the visualization by selecting a value in the **Null values handling** dropdown in the **Properties** icon .



### Interpolate

The line displays an interpolated value based on adjacent data points. This is the default selection.

### Show as gaps

The line displays a gap between the adjacent data points.

### Show as zero

The line displays missing values as zero.

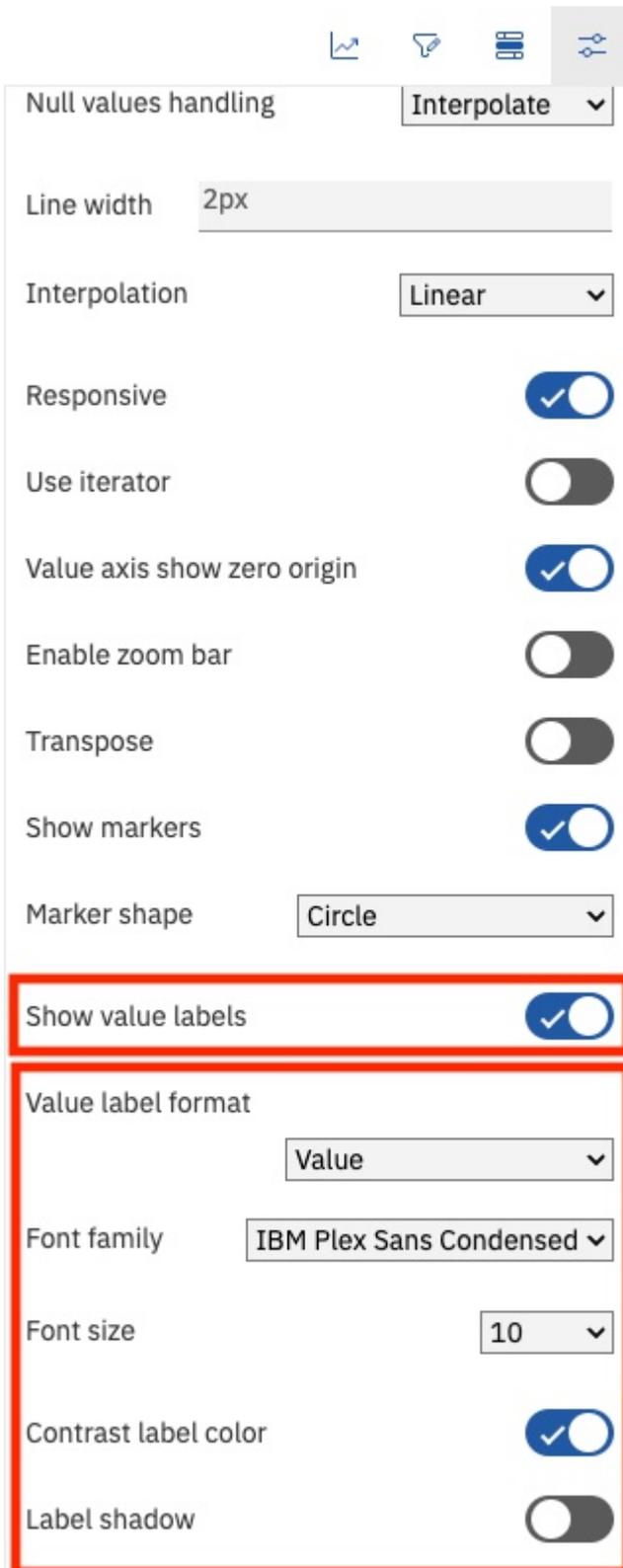
For more information, see "Customizing null values for lines" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

## Showing value labels in visualizations

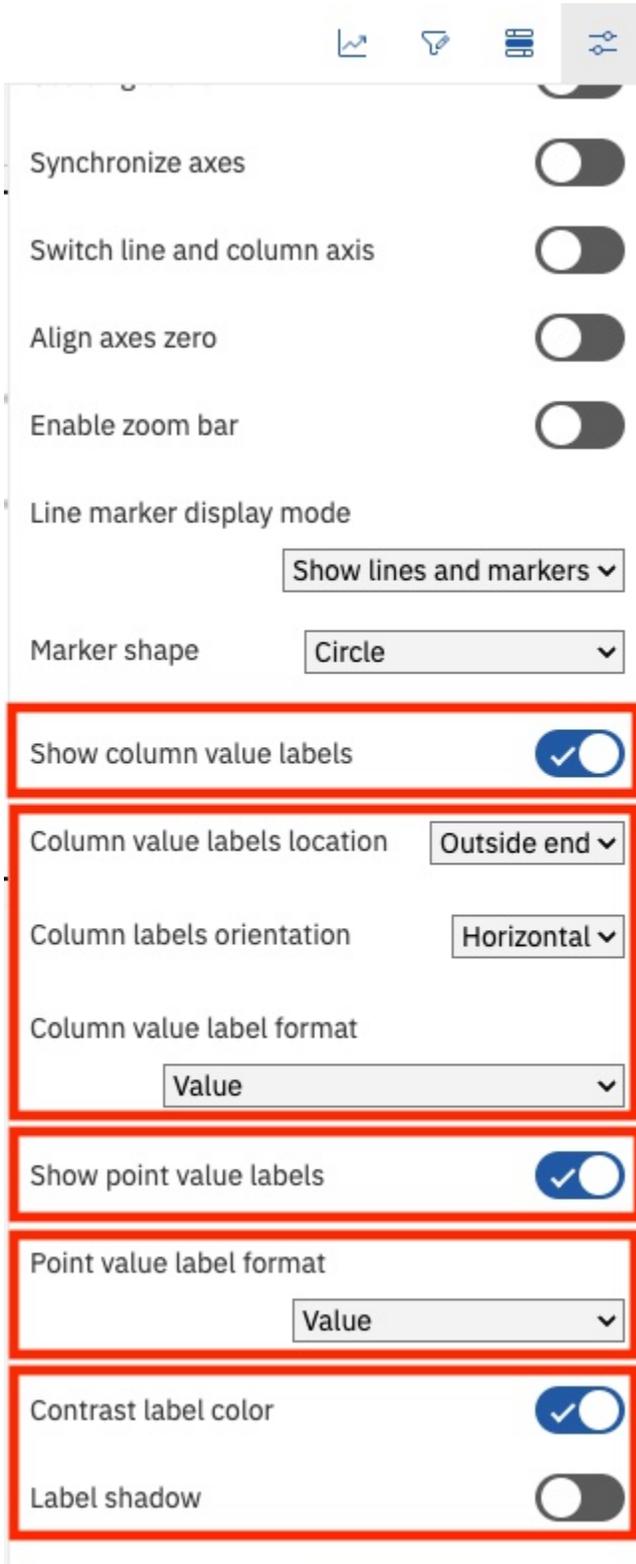
You can show value labels in line visualizations and line and column visualizations so that the data values are clearer.

In the **Properties** icon , click the corresponding **Show value labels** toggle for the line visualization or line and column visualization. By default, these visualizations do not show value labels.

For line visualizations, enable **Show value labels** to show the value of each data point on the visualization. You can also customize the format of the value labels.



For line and column visualizations, enable **Show column value labels** to show the value of each column on the visualization, and enable **Show point value labels** to show the value of each line data point on the visualization. You can also customize the format of the value labels.



For more information, see "Showing labels in visualizations" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

## Disabled part of top/bottom calculations

You can no longer create a top/bottom calculation that references a different fact table than the metadata items that are used in the visualization.

## Reporting

IBM Cognos Analytics with Watson reporting is a web-based report authoring tool that professional report authors and developers use to build sophisticated reports against multiple databases.

### New Image service

A new service, the Image service, is introduced in Cognos Analytics 11.2.4. This service allows Cognos Analytics reports to render maps and other visualizations into PDF and Excel formats. In previous releases, these visualizations were available only in HTML format.

The Image service supports these chart types:

- Map (Tiledmap using MapBox API)
- Donut
- Treemap
- Bullet
- Marimekko

For more information, see "Installing the Image service" in the *Cognos Analytics Installation and Configuration Guide*.

### Embedded reports in Microsoft Teams

In Microsoft Teams, you can add a tab with an embedded report from an external Cognos Analytics environment. On any platform, Teams users can then perform interactive analyses of the report without having to log in to Cognos Analytics themselves.

This feature complements the [embedded dashboards feature](#) that was introduced in Cognos Analytics 11.2.3.

For more information, see "Embedding a report in Microsoft Teams" in the *IBM Cognos Analytics with Watson Reporting Guide*.

### Bulk conversion of queries and analyses

Convert a group object of type **query** (Query Studio report) or **analysis** (Analysis Studio report) to objects of type **report**. This supports the deprecation of Query Studio and Analysis Studio and allows you to migrate your analysis and query content to Cognos Analytics Reporting.

You can also convert individual query or analysis objects to reports. For more information, see [Open a Report in IBM Cognos Analytics - Reporting](#).

### Before you begin

You must have the necessary permissions to locate and convert analyses and queries to reports.

#### Notes:

- Anonymous user access is not supported.
- You cannot convert objects in **My content**.
- Schedules of analyses and queries will not be transferred to the converted reports.

## Converting a group of query and analysis objects to report objects

To convert multiple query and analysis objects to report objects at once, run the `RunBulkConverter.bat` command. The `RunBulkConverter` application is installed in the `installation_location/sdk/bulkconverter` folder as part of the Application Tier components.

1. On a command line, go to the `installation_location/sdk/bulkconverter` folder.
2. On Windows, type  
`RunBulkConverter.bat`  
OR  
On Linux or AIX, type  
`./RunBulkConverter.sh`
3. Enter the value of **Internal dispatcher URI** from **Cognos Configuration** and log in to the namespace as an authenticated user.
4. Locate and select one or more analyses, queries, and folders containing analyses or queries in the tree pane that shows all the contents in **Team content**.
5. Select **Queries to Reports** from the **Convert** menu to convert the selected query objects to reports.
6. Select **Analyses to Reports** from the **Convert** menu to convert the selected analysis objects to reports.

The results are displayed in the output pane. To see the newly created reports in the tree pane, select **Refresh Tree** from the tree pane or from the **File** menu.

If the conversion is successful, the converted reports are saved with the same names as the originals in the **Converted Analyses** or **Converted Queries** folder located in the same folder as the selected analyses or queries.

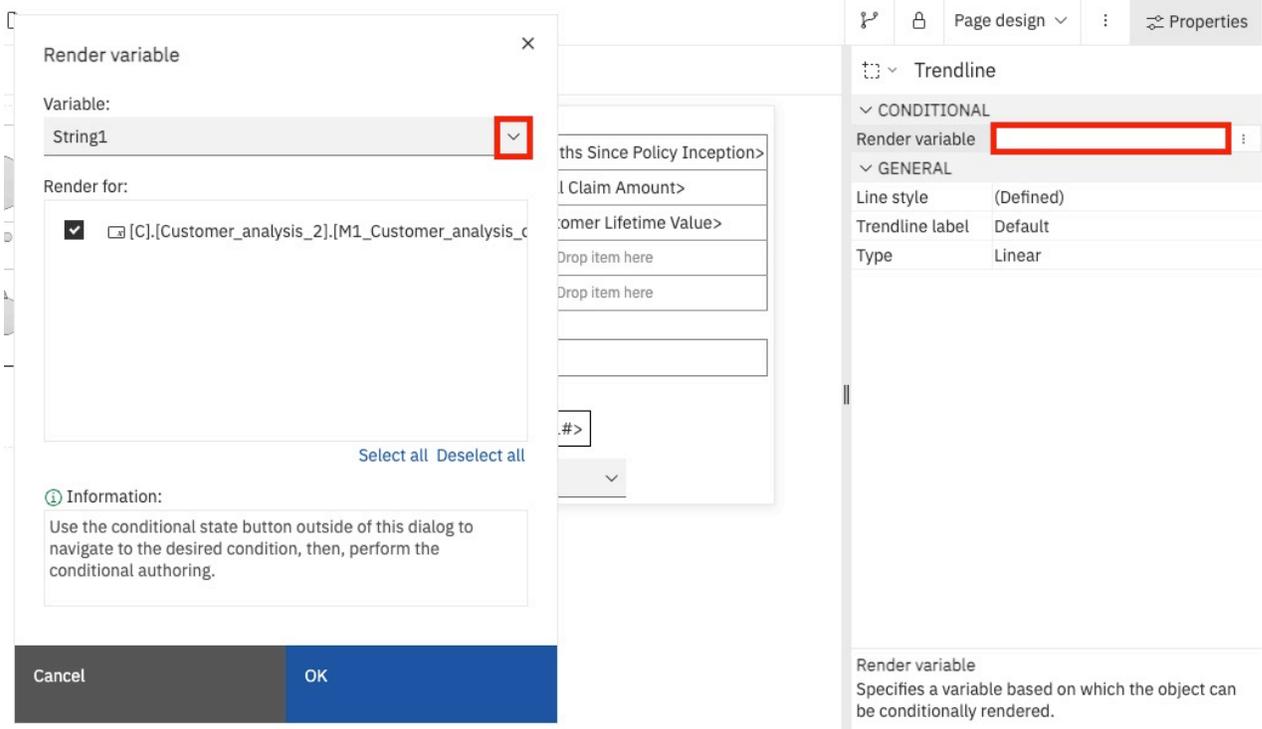
Tip: If the conversion fails with an analysis or a query, try converting the analysis or query individually and view the error log. For more information, see [Open a Report in IBM Cognos Analytics - Reporting](#).

## Trendlines for X-axis and Y-axis data items in bubble and scatter visualizations

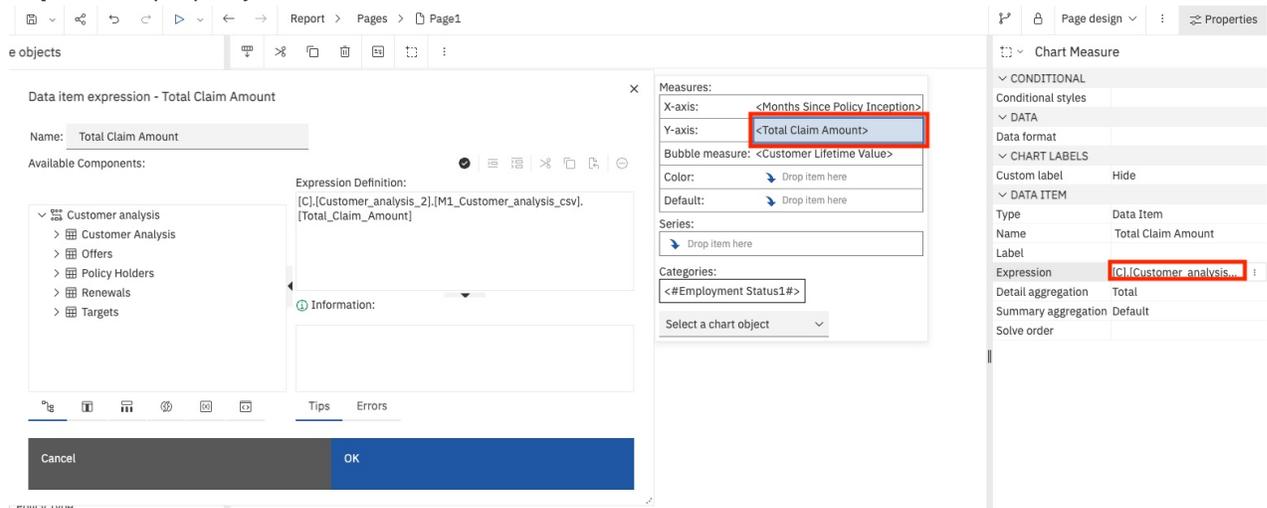
You can apply a trendline to the X- and Y-axis data items in bubble and scatter visualizations.

Apply trendlines to X- and Y-axis data items to illustrate trends in those specific items, typically when charting predictions.

After creating the trendline, double-click the **Render variable** property and specify the variable for the data item on which to apply the trendline.



**Tip:** To find the variable for the data item, click the data item in the chart, then double-click the **Expression** property.

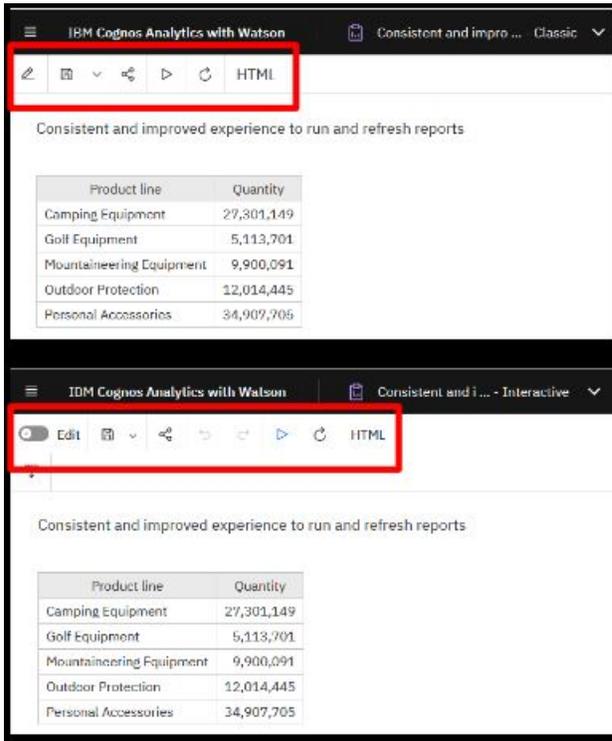


For more information, see "Display trendlines in charts" in the *IBM Cognos Analytics with Watson Reporting User Guide*.

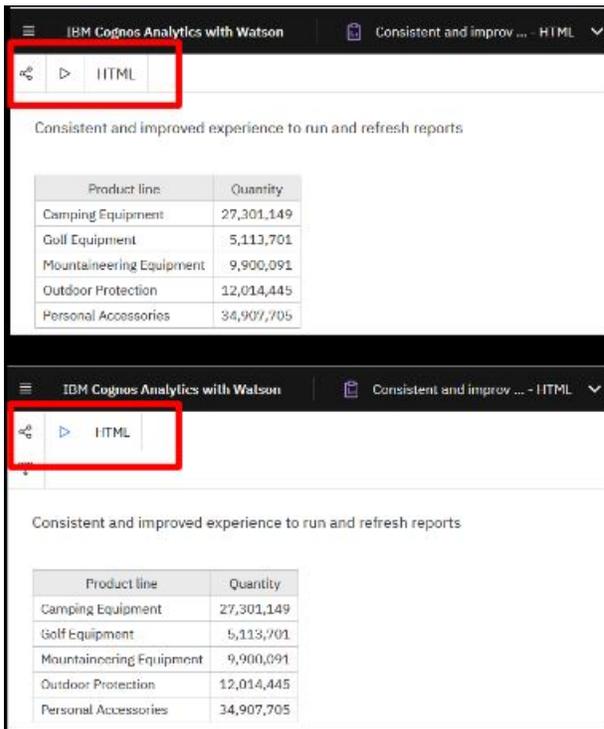
## Consistent and improved experience to run and refresh reports

The toolbar options in the classic viewer and interactive viewer are now consistent.

The following image shows the toolbars in the classic viewer (top image) and the interactive viewer in previous versions of Cognos Analytics:



And the following image shows the current, consistent toolbar in both viewers when viewing saved output:



For more information, see "Running a report" in the *IBM Cognos Analytics with Watson Reporting* guide.

## Current PDF drill-through behavior

Drill-through behavior in PDF reports is changed to work similarly as in Cognos Analytics 11.1.7.

In Cognos Analytics 11.1.7 and earlier versions, PDF drill through was supported only in Internet Explorer, using Adobe Acrobat Reader. Acrobat Reader provided a mechanism that allowed for generation of

self-contained PDFs where the drill-through information was encapsulated in the PDF. Drill-through links worked as long as the PDF was viewed in Acrobat Reader.

Starting in Cognos Analytics 11.2.0, PDF drill through became available in all supported browsers and their respective PDF viewers. Because some of the viewers don't provide the same functionality as Acrobat Reader, the PDF output needed to be saved in Cognos Analytics for the drill-through links to work.

For cases where the PDF output is not saved in Cognos Analytics, a change is delivered in this release (11.2.4) that allows the drill-through links to work like they did in Cognos Analytics 11.1.7: in self-contained PDF reports that can be viewed in Adobe Acrobat Reader. The drill-through links don't work if the PDF report is opened outside of Cognos Analytics, in a viewer other than Adobe Acrobat Reader.

Downloaded PDF reports can be opened in any PDF viewer. However, drill-through links work only in the following situations:

- The downloaded PDF report is viewed in Adobe Acrobat Reader.
- The report output is saved in Cognos Analytics, such as when running a report in the background and selecting the **Save** delivery option.

PDF reports that are viewed within Cognos Analytics continue to work in all supported browsers.

For more information, see "Drilling through to different report formats" in the *IBM Cognos Analytics with Watson Reporting Guide*.

## Modeling

Learn about new features and changes to the IBM Cognos Analytics with Watson modeling components, primarily data modules.

### Dynamic source overrides

Data modules can be dynamically redirected to different data server connections, schemas, or catalogs at run time.

This feature is available only for data modules that are created from data server sources. Data modules that are created from packages, data sets, and uploaded files are not affected.

The overrides perform the same function as relinking, but without the need for user action.

To define source overrides, use the **Override** properties on data server connections, schemas, and catalogs.

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Sources' panel shows a search bar and a list of sources: 'dbo' and 'sales'. The 'sales' source is selected. A context menu is open over the 'sales' source, with options: 'Relink', 'Remove', 'Data cache...', 'Reload metadata', and 'Properties'. The 'Properties' option is highlighted with a red box. In the center, the 'Data preview' panel shows a message: 'This data cannot be previewed. There is no data or you do not have permission to view it.' On the right, the 'Source properties' panel is open, showing the 'General' tab. The 'Advanced' section is expanded, showing the 'Identifier' as 'B2\_B2\_B2\_ss\_pe.basi'. The 'Source' is 'sales'. Under the 'Data server connection' section, the 'Override' checkbox is checked, and the 'Value' is 'BikeStores2 override >'. Under the 'Catalog' section, the 'Override' checkbox is unchecked, and the 'Value' is 'BikeStores2 >'. Under the 'Schema' section, the 'Override' checkbox is checked.

You can define the override values as strings or macros. However, only when using macros, and including session parameters, such as `tenantID`, `machine`, or `account.personalInfo.userName`, you can implement dynamic source overrides.

Dynamic source overrides are useful when the development, test, and production environments use different data server connections, schemas, or catalogs, or in a multi-tenant application where each tenant uses a different instance of the same database schema or catalog.

For more information, see the "Defining source overrides" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Convert option available for all types of tables

The **Convert** option is now available for all types of referenced tables, including the except, intersect, join, union, and SQL-based tables.

This option was introduced in Cognos Analytics 11.2.3, as documented in the topic ["Converting referenced tables"](#) on page 57.

The types of conversions that are available for a table depend on the table type. For example, the following conversions are available for an except table:

### Convert 'Sales Staff - Copy (1) - Except (1)' ×

Choose a type of table to convert to.

-  **Alias table** i  
Converts the shortcut table to an alias table.
-  **Table** i  
Converts the shortcut table to the type of table that the shortcut table references.  
 Warnings (1)  

 Embedded filters in the table referenced by the shortcut table are not applied in the new table. □
-  **View table** i  
Converts the shortcut table to a view table.

Cancel Convert

For more information, see the "Converting referenced tables" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Relink option available for all types of tables

The **Relink** option is now available for all types of referenced tables, including the except, intersect, join, and union.

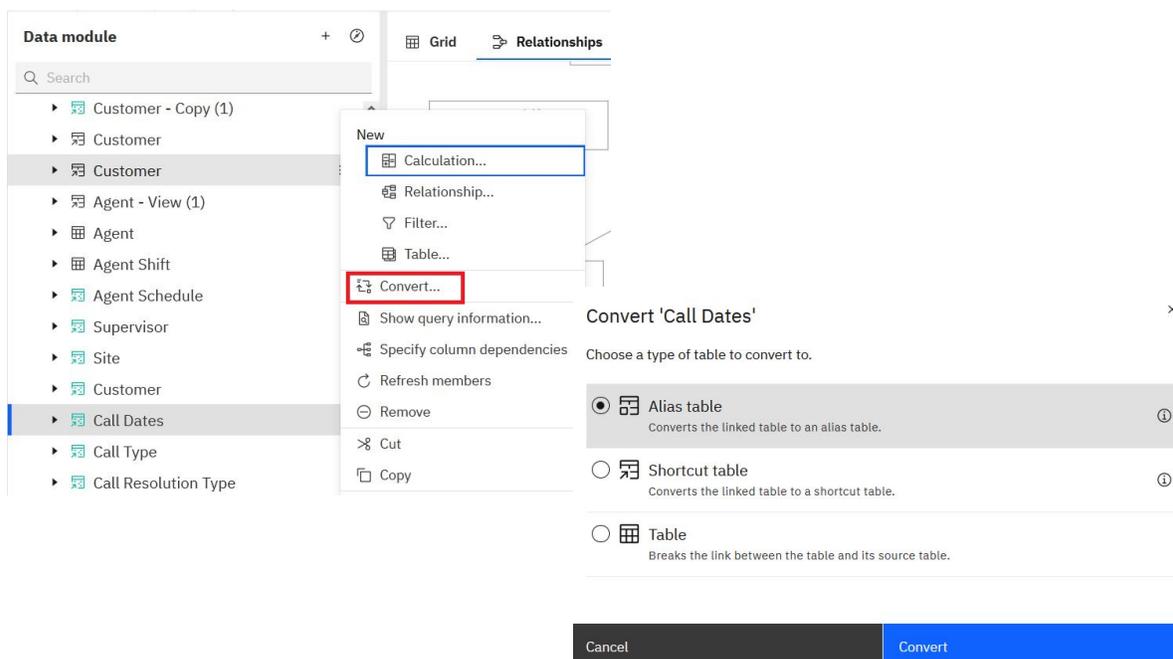
This option was introduced in Cognos Analytics 11.2.3, as documented in the topic [“Relinking referenced tables”](#) on page 58 .

For more information, see the "Relinking referenced tables" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Break link option replaced by Convert option

The **Break link** context menu option on all linked tables is replaced by the **Convert** option.

The **Convert** option was introduced in Cognos Analytics 11.2.3, as documented in the topic [“Converting referenced tables”](#) on page 57. In addition to breaking the link with the table in the source data module, this option also allows you to convert the table to a shortcut or alias table.



The **Break link** option is still available for links between two tables in the **Relationships** diagram.

For more information, see the "Data modules" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Secured features within Web-based modeling capability

The **Web-based modeling** capability has two more granular capabilities: **Edit Data Module Defined SQL** and **Use Data Module Defined SQL**. However, these two capabilities are not active yet.

Please do not use these capabilities. The high-level **Web-based modeling** capability works as before.

The **Edit Data Module Defined SQL** and **Use Data Module Defined SQL** capabilities are available with user capabilities and object capabilities in the **Manage** user interface. They are not available in the **Administration console**.

For more information, see "User capabilities" and "Object capabilities" in the *Cognos Analytics Manage Guide*.

## **Current\_date session parameter added for dynamic query mode**

A new session parameter, **current\_date**, is now available for dynamic query mode.

The **current\_date** session parameter will return the date from the server where dynamic query is executing the request.

For more information, see "Creating session parameters" in the *IBM Cognos Analytics with Watson Framework Manager Guide*.

## **Notebook**

IBM Cognos Analytics for Jupyter Notebook integrates Jupyter notebooks into IBM Cognos Analytics with Watson. You can create and upload notebooks into Cognos Analytics, and work with Cognos Analytics data in a notebook using Python scripts. You can also embed notebook output in a dashboard, story, or report.

### **Upgraded Python kernel**

The Python kernel for Cognos Analytics for Jupyter Notebook Server 11.2.4 is upgraded to version 3.11. Upgraded kernels are more compatible with newer packages. This results in fewer errors when you run notebooks.

For more information, see "Python notebook examples" in the *Cognos Analytics Notebook User Guide*.

## **Administration**

Manage the security, access, and functionality of IBM Cognos Analytics with Watson components.

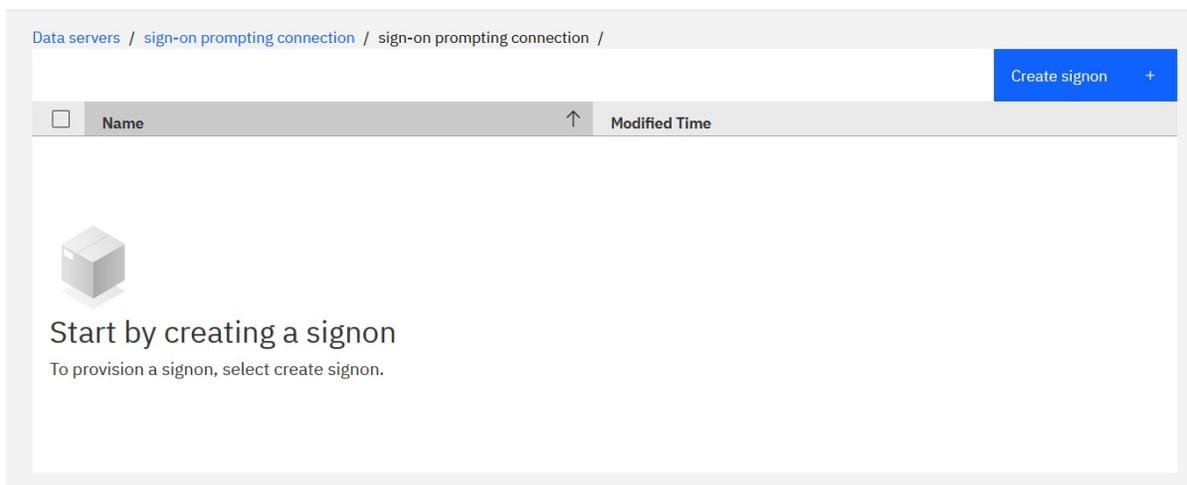
### **Data server connections redesign**

In release 11.2.4, administrators who manage data server connections are re-introduced to a familiar navigation paradigm. Now they can drill down from a data source to a data server connection to a signon - something they are used to doing in Cognos Administration.

Some features previously missing from the Manage interface are now carried forward from Cognos Administration. These include command blocks, trusted connections, isolation levels, copying and moving connections, and signons.

## Data server connections

Manage existing connections to data sources or create new connections that can be used across the platform.



For more information, see "Creating a data server connection" in the *Cognos Analytics Managing Guide*.

### Object capabilities on data modules, data sets, and uploaded files

The object capabilities are now extended to data modules, data sets, and uploaded files.

In previous versions of Cognos Analytics, this type of capabilities was available only on packages and folders.

To access and set these capabilities, in **Team content** (or any other folder in the **Content** page), find a data module, data set, or uploaded file. From the **Actions** menu of any of these items, click **Properties**. The properties page for these items now includes the **Capabilities** tab.

# Properties

**General** **Capabilities** Permissions

Name  
Sample data module

Description  
This sample data module is intended to help beginners start authoring reports and dashboards. The Sample Outdoors Company is a fictitious business operation with data for products, retailers, order methods, and year. Source: IBM

Tenant  
None

⚠ Changing the tenant of an entry also changes the tenant of child entries.

Permissions ⓘ  
Full

On the **Capabilities** tab, click **Set capabilities**. The following capabilities page is displayed:

Sample data module Close Revert Save

Select one or more entries to see their capabilities. By default, an entry acquires capabilities from its parent. To change the default values, select **Override parent capabilities**.

Override parent capabilities

Groups, Users, and Roles	* Capabilities required.	Capabilities	<input type="checkbox"/> Grant	<input type="checkbox"/> Deny
1 item selected Remove   Cancel		Adaptive Analytics	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Name	Location	Administration		
<input checked="" type="checkbox"/> Analytics Users *	Directory > Cognos	AI		
	<input type="checkbox"/> Override child capabilities	Analysis Studio	<input type="checkbox"/>	<input type="checkbox"/>
		Dashboard		
		Data sets	<input type="checkbox"/>	<input type="checkbox"/>
		Desktop Tools	<input type="checkbox"/>	<input type="checkbox"/>
		Event Studio	<input type="checkbox"/>	<input type="checkbox"/>
		Exploration	<input type="checkbox"/>	<input type="checkbox"/>
		Glossary	<input type="checkbox"/>	<input type="checkbox"/>
		Lineage	<input type="checkbox"/>	<input type="checkbox"/>
		Metric Studio	<input type="checkbox"/>	<input type="checkbox"/>
		Planning Contributor	<input type="checkbox"/>	<input type="checkbox"/>
		PowerPlay Studio	<input type="checkbox"/>	<input type="checkbox"/>
		Query Studio	<input type="checkbox"/>	<input type="checkbox"/>
		Report Studio	<input type="checkbox"/>	<input type="checkbox"/>
		Specification Execution	<input type="checkbox"/>	<input type="checkbox"/>
		View Generated Query Text	<input type="checkbox"/>	<input type="checkbox"/>
		Watch Rules	<input type="checkbox"/>	<input type="checkbox"/>
		Web-based modeling	<input type="checkbox"/>	<input type="checkbox"/>

The list of capabilities is the same for packages, data modules, data sets, and uploaded files, even though some of these capabilities are not applicable for each of these items, or are not active. For example, the **Adaptive Analytics** capability works only with Framework Manager packages. Set only the capabilities that are applicable for a specific package, data module, data set, or uploaded file, and leave the checkboxes for the remaining capabilities clear.

For more information, see "Object capabilities" in the *Cognos Analytics Manage Guide*.

## Secured features within Web-based modeling capability

The **Web-based modeling** capability has two more granular capabilities: **Edit Data Module Defined SQL** and **Use Data Module Defined SQL**. However, these two capabilities are not active yet.

Please do not use these capabilities. The high-level **Web-based modeling** capability works as before.

The **Edit Data Module Defined SQL** and **Use Data Module Defined SQL** capabilities are available with user capabilities and object capabilities in the **Manage** user interface. They are not available in the **Administration console**.

For more information, see "User capabilities" and "Object capabilities" in the *Cognos Analytics Manage Guide*.

## Hiding SQL and MDX query text

You can hide SQL and MDX query information from users if visible query text is a security concern in your company.

By default, Cognos Analytics reports and dashboards allow users to view generated query information. For example, you can [view the SQL or MDX](#) for a report or query.

A new capability, **View Generated Query Text**, allows administrators to disable selected users' ability to view SQL and MDX query text that is related to

- all assets, by [removing the capability from selected Groups or Roles](#)
- an individual asset, by [denying the user's capability for a specific folder, package, or module](#)

**Note:** When the **View Generated Query Text** capability is denied and the user attempts to retrieve query information, they will see one of these messages:

- XQE-PLN-0552 You are not allowed to view the generated SQL due to restrictions on the following metadata sources: "{0}".
- XQE-PLN-0553 You are not allowed to view the generated MDX due to restrictions on the following metadata sources: "{0}".

For more information, see "View Generated Query Text" in the *Cognos Analytics Managing Guide*.

## Default maximum size of content requests

The default maximum size of a Content Manager request is now increased to 2 GB. Previously, the default size was 0.5 GB.

For more information, see "Limiting the size of a request" in the *Cognos Analytics Managing Guide*.

## Supported Software Environments page for release 11.2.4

Supported Software Environments information is available for IBM Cognos Analytics with Watson 11.2.4.

You can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.4.

Visit the 11.2 Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>.

## Vendor-supported driver versions tested with 11.2.4

IBM Cognos Analytics with Watson 11.2.4 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.4* [[Relational](#)] [[OLAP](#)] (<https://www.ibm.com/support/pages/node/6441017#11.2.4r>).

## Access token passing support for Dremio

Cognos Analytics now supports passing access tokens to Dremio.

To pass access tokens, use the Dremio JDBC driver. A connection must include the Dremio name-value pair `SSL=true;token_typ=jwt;`.

For more information, see [Connections that support JWT authentication](#).

## Databricks support

IBM Cognos Analytics with Watson Dynamic Query now supports connections to Databricks through the Databricks JDBC driver.

### Create data server connection

The screenshot shows a configuration window for creating a data server connection. On the left, there are three tabs: 'Type' (selected), 'Connection', and 'Commands'. The main area is divided into sections: 'Name' with a text input containing 'Databricks'; 'Description (optional)' with a large empty text area; and 'Connection type' with a dropdown menu. The dropdown menu is open, displaying a list of connection types: Amazon Athena, Amazon Redshift, CData Cloud Connect, Cloudera Impala, Databricks (highlighted with a red rectangular box), and Denodo.

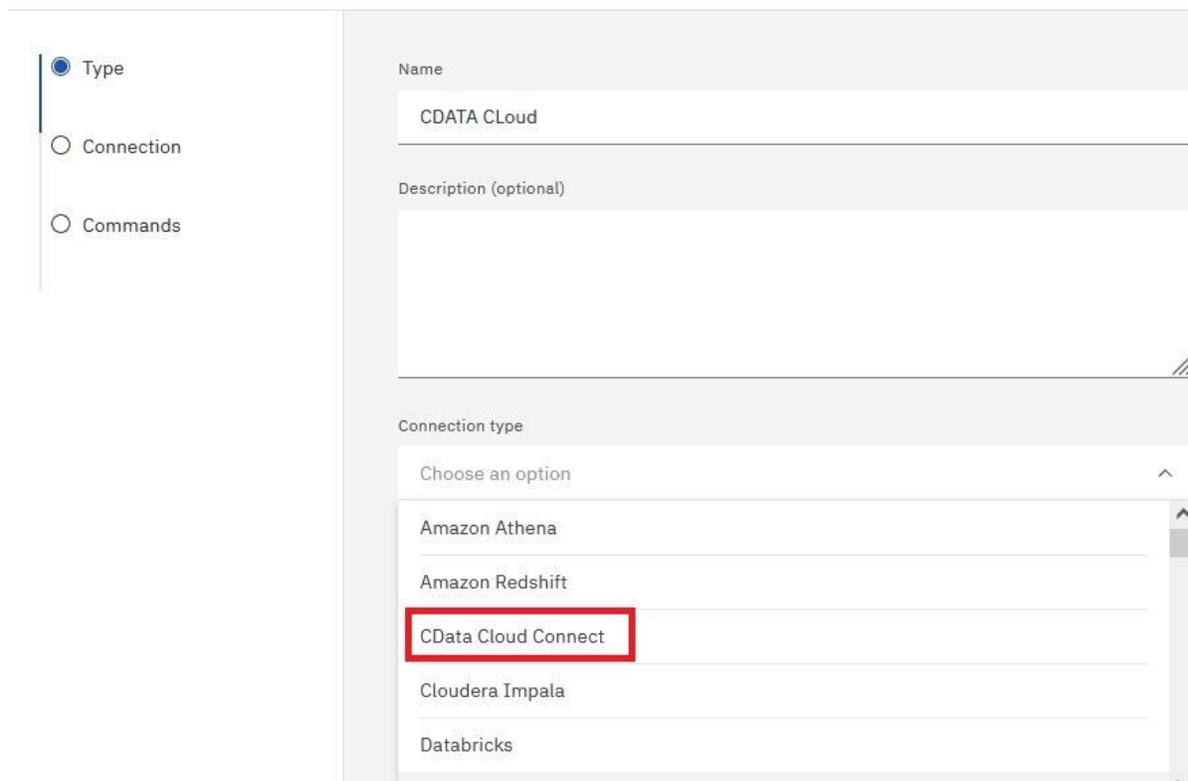
The minimum version of the JDBC driver that is supported is 2.6.29.

For more information, see "Creating a data server connection" in the *IBM Cognos Analytics Managing Guide*.

## Cdata Cloud Connect support

IBM Cognos Analytics with Watson Dynamic Query now supports connections to Cdata Cloud Connect through the Cdata Cloud Connect JDBC driver.

### Create data server connection



The screenshot shows a web-based interface for creating a data server connection. On the left, there are three tabs: 'Type' (selected), 'Connection', and 'Commands'. The main area is divided into sections: 'Name' with a text input field containing 'CDATA Cloud'; 'Description (optional)' with a large empty text area; and 'Connection type' with a dropdown menu. The dropdown menu is open, displaying a list of options: 'Choose an option', 'Amazon Athena', 'Amazon Redshift', 'CData Cloud Connect' (which is highlighted with a red rectangular box), 'Cloudera Impala', and 'Databricks'.

The minimum version of the JDBC driver that is supported is 22.0.8327.

For more information, see "Creating a data server connection" in the *IBM Cognos Analytics Managing Guide*.

## SingleStore connection editor labels changed to SingleStoreDB

SingleStore connection editor labels will now read SingleStoreDB.

This is a cosmetic change to the label shown in the connection editors, and does not impact the functionality of existing connections created in prior releases.

For more information, see [SingleStore](#).

## Samples

Get a deeper understanding of IBM Cognos Analytics with Watson capabilities with updated sample content.

### Updated base samples

Some of the IBM Cognos Analytics with Watson base samples were updated.

For more information, see "Base samples" in the *IBM Cognos Analytics with Watson Samples Guide*

### Dashboards

The following sample dashboards were updated.

## Product line dashboard

This dashboard now includes cascading filters in a cascade set on the **Region** tab. Also, the **About** tab was added that contains links to relevant how-to information.

Dashboard location: **Team content > Samples > By feature > Core > Dashboards .**

## Policy analysis

This dashboard has a new tab named **Details** that contains two crosstab visualizations.

Dashboard location: **Team content > Samples > By industry > Insurance > Dashboards .**

## Reports

For the **Customer lifetime value analysis** sample report, the following visualizations were added: box plot, clustered bar, clustered column, clustered combination, floating column, packed bubble, point, quadrant, scatter plot, smooth area, smooth line, stacked bar, stacked column, step line, target bar, and target column.

The report is located in **Team content > Samples > By industry > Insurance > Reports .**

## Visualizations

The following visualizations were added: box plot, decision tree, drop-down list, legacy map, radar, scatter, and stacked column.

The visualizations are located in **Team content > Samples > Get started > Visualization gallery.**

## Audit samples

The model was updated to include a new table named COGIPF\_OBJECT\_INFO that contains additional information about the following audit tables:

- COGIPF\_TIMEZONE\_OFFSET
- COGIPF\_SESSIONID
- COGIPF\_REQUESTID
- COGIPF\_STEPID
- COGIPF\_SUBREQUESTID
- COGIPF\_OBJECT\_NAME
- COGIPF\_BASE\_OBJECT\_NAME
- COGIPF\_BASE\_OBJECT\_PATH

For more information, see "Sample audit model and audit reports" in the *IBM Cognos Analytics with Watson Samples Guide*

## Installation and configuration

Learn about changes to the IBM Cognos Analytics with Watson installation and configuration.

## New Image service

A new service, the Image service, is introduced in Cognos Analytics 11.2.4. This service allows Cognos Analytics reports to render maps and other visualizations into PDF and Excel formats. In previous releases, these visualizations were available only in HTML format.

The Image service supports these chart types:

- Map (Tiledmap using MapBox API)
- Donut
- Treemap

- Bullet
- Marimekko

For more information, see "Installing the Image service" in the *Cognos Analytics Installation and Configuration Guide*.

## FIPS mode on Linux

Federal Information Processing Standards (FIPS) is an American cryptographic standard that is published by the National Institute of Standards and Technology (NIST). IBM Cognos Analytics is not FIPS-certified. However, you can configure Cognos Analytics on Linux to use only FIPS-certified security modules. When you complete this configuration, Cognos Analytics is in "FIPS mode".

In release 11.2.4, all Cognos Analytics NodeJS modules on Linux are set to FIPS mode by default.

For more information, see "Enabling FIPS mode on Linux" in the *Cognos Analytics Installation and Configuration Guide*.

## Release 11.2.3 - August 2022

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This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.3.

### Multiple components

Learn about enhancements to the user interface, training materials, and features that affect multiple IBM Cognos Analytics with Watson components.

#### Share content via Microsoft Teams

You can share your Cognos Analytics dashboard and report content, as well as your own message, via Microsoft Teams. Building on its existing integration with Slack, Cognos Analytics now also gives you the option to use Microsoft Teams to share content with colleagues.

For more information, see "Sharing content from the canvas" in the *Cognos Analytics Getting Started Guide*.

#### Using the up and down keys for menu navigation

You can use the up and down keys (arrow keys) on the computer keyboard to navigate between items in a menu.

Use the up and down keys to navigate between items in the **Open menu** , the view switcher, the

**Personal menu**, the context menu  for all items in the **Content** page, and other menus.

In previous versions of the product, only the tab key could be used to navigate between items in these menus.

For more information, see "Welcome page" in the *IBM Cognos Analytics Getting Started Guide*.

#### Full-page properties view

The item properties are now displayed in a full-page view.

Use the **Save** button to save your changes to the properties, and the **Close** button to close the page without saving your changes.

The following image shows the report **Properties** page.

## Properties

Close

Save

General Report Schedule Permissions

Name

Sales summary

Description

Sales summary report.

Permissions ⓘ

Full

Entry options

Hide this entry

Disable this entry

## Context-sensitive search

You can limit your search results by navigating to a specific location in the **Content** page, and then starting your search.

The search results are displayed on two tabs. One tab shows the results specific to the context from which you started the search. The second tab shows the search results for all content, including **Team content**, **My content**, and custom folders.

The screenshot shows the IBM Cognos Analytics interface with a search for 'coffee'. The search results are displayed in a table with columns for Name, Location, Type, and Last Accessed. The results are filtered to show 12 items, including 'Coffee exploration', 'Coffee marketing', 'Coffee operations', and 'Coffee\_sales.zip'.

<input type="checkbox"/>	Name	Location	Type	Last Accessed
<input type="checkbox"/>	<b>Coffee exploration</b> This sample exploration demonstrates the use of Explore for a ficti...	Team content > Samples > By industry > Ret...	Exploration	7/28/2022, 11:57 AM
<input type="checkbox"/>	<b>Coffee marketing</b> This sample dashboard demonstrates marketing data from a fictio...	Team content > Samples > By industry > Ret...	Dashboard	7/28/2022, 10:08 AM
<input type="checkbox"/>	<b>Coffee operations</b> This sample dashboard demonstrates operational data from a fictio...	Team content > Samples > By industry > Ret...	Dashboard	7/28/2022, 10:08 AM
<input type="checkbox"/>	<b>Coffee_sales.zip</b> This sample data contains representative retail data from a fictio...	Team content > Samples > By industry > Ret...	Uploaded file	7/27/2022, 1:09 PM

For more information, see the "Search" topic in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Hiding the video button in the Welcome page

Administrators can hide the **Watch video** button in the Welcome page for **Cognos** roles.

For more information, see "Hiding the Watch video button in the Home page" in the *Cognos Analytics Managing Guide*.

## Assistant

Ask questions, in natural language, to find, explore, and gain quick insights into your data.

### Enhanced time entity filtering in the Assistant

The Assistant now understands even more time references and can filter based on date phrases like YTD (year to date), QTD (quarter to date), MTD (month to date), and WTD (week to date). The Assistant now also understands additional U.S. holidays or special days, such as Memorial Day and Mother's Day.

Additionally, the Assistant recognizes certain typos and abbreviations for days of the week, months, and several holidays and special days. For example, the Assistant recognizes:

- Jan for January
- Sep or Sept for September
- Thu, Thur, or Thurs for Thursday
- Xmas for Christmas
- Valentines for Valentine's Day

References to `this`, `last`, and `next` have also been refined:

- `this` returns a value for the month, week, or holiday that is in the current calendar year
- `next` returns a value for the next occurrence of day, month, or holiday in the future
- `last` returns a value for the occurrence of the day, month, or holiday that occurred most recently

You can also prefix `this`, `last`, and `next` with a day of the week, month, and special days or holidays. For example, you can use:

- `show sales from last Tuesday to this Tuesday`
- `sales from last Halloween to this Christmas`

When you prefix `this` with a day of the week, the Assistant returns the day of the current week, with Sunday being the start. For example, if today is Monday, `this Sunday` returns the Sunday that just passed. `Last Sunday` also returns the Sunday that just passed.

**Note:** You cannot mix holidays or special days with months or days of the week when you use `this`, `last`, or `next`. For example, the Assistant does not support the use of `show sales from last Tuesday to next Christmas Day`.

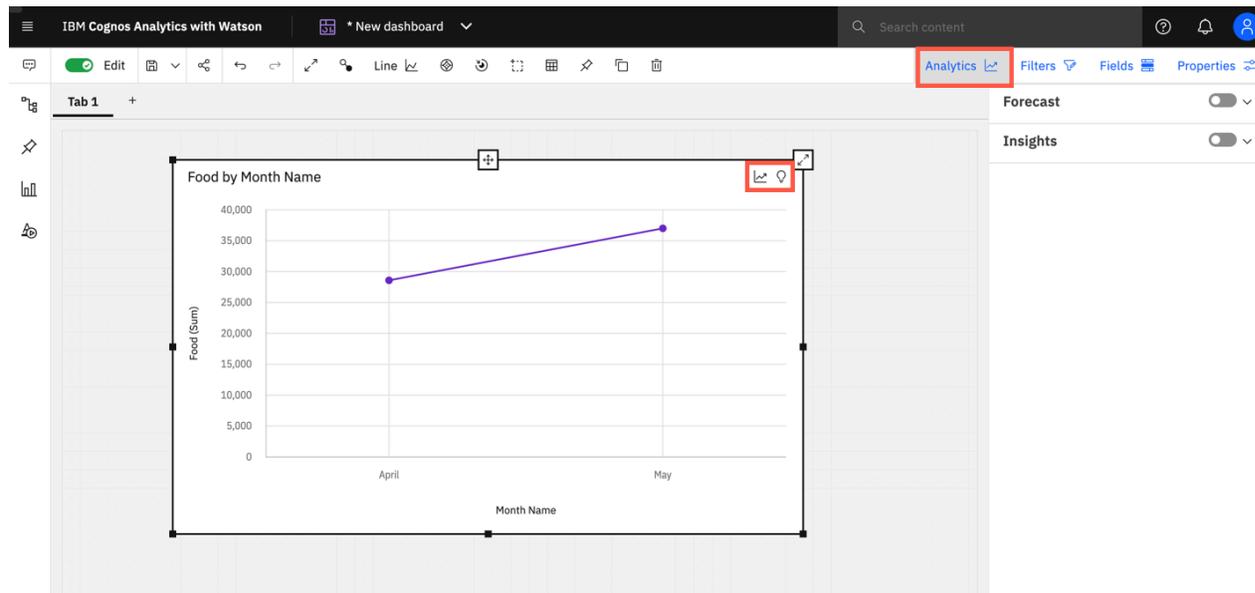
For more information, see [Assistant filtering](#).

## Dashboards

Use IBM Cognos Analytics with Watson dashboards to discover key insights about your data and monitor events or activities at a glance.

## Insights and Forecast now on the new Analytics panel

You can now access visualization insights and the forecasting feature from the new **Analytics** panel. To open the **Analytics** panel, click the **Analytics** tab, or click the **Forecast** or **Insights** icon in the visualization.



The new **Analytics** panel lets you easily work with both **Forecast** and **Insights** even if you are not in **Edit** mode.

Turn on the **Forecast** feature to create a forecast. Under **Forecast**, you can now also create a multivariate forecast that considers multiple variables that work together or have dependencies. Add measures to the **Optional factors to consider** slots to create a multivariate forecast. Click **See statistical details** to see the statistical information of the forecast you created.

Enable the **Insights** feature to see [visualization insights](#).

You can also see warnings and errors right there in the panel.

Analytics  Filters  Fields  Properties 

**Forecast**  

Forecast periods	Ignored last periods
Auto	0
Confidence level	Seasonal period
95% 	Auto

Optional factors to consider 0/5

Click or drag data here

[See statistical details](#)

**Insights**  

**Show average value** 

The average value of Food is 32,792.

**Show meaningful differences** 

Too few categories

 **Annotation warnings:**

- Forecasting did not succeed for one or more series due to an insufficient number of historical data points (at least 5 non-ignored points are required). Refer to Forecasting statistical details for more information.

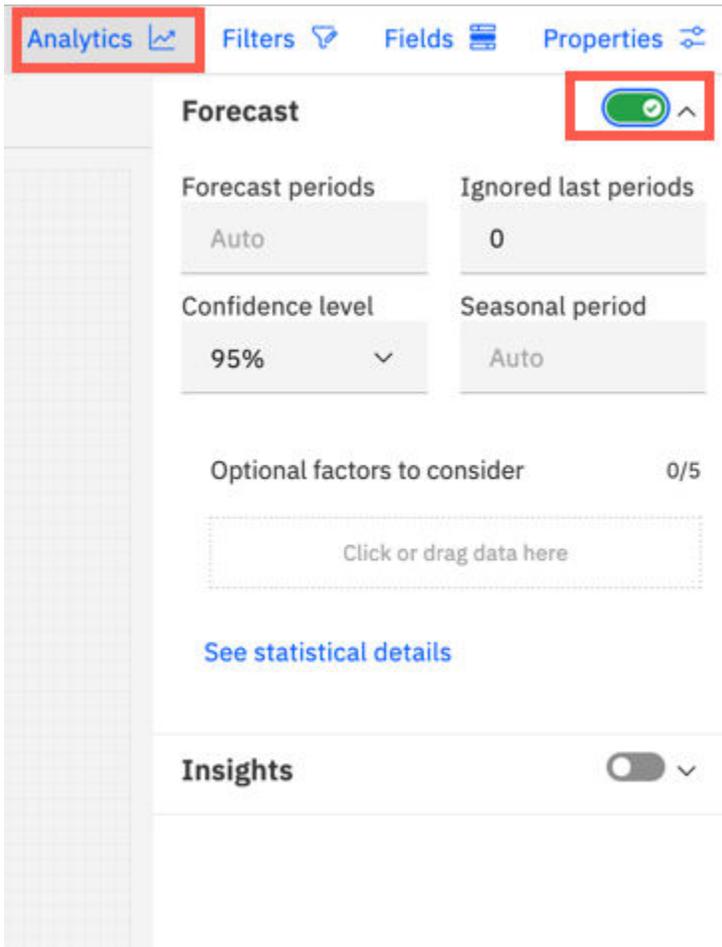
 **Annotation errors:**

- Analysis was not performed because there are too few categories. If filters are applied, then consider adjusting them to get more categories.

## Enhanced forecasting with the Watson Core time-series library

The time-series forecasting feature now uses the Watson Core library. Using the Watson Core time-series library increases the prediction accuracy of the forecasts and allows the use of multiple seasons (or nested seasons). Time series that have regular repeating cycles can be modeled with a seasonal component.

To create a forecast, enable **Forecast** in the **Analytics** panel.



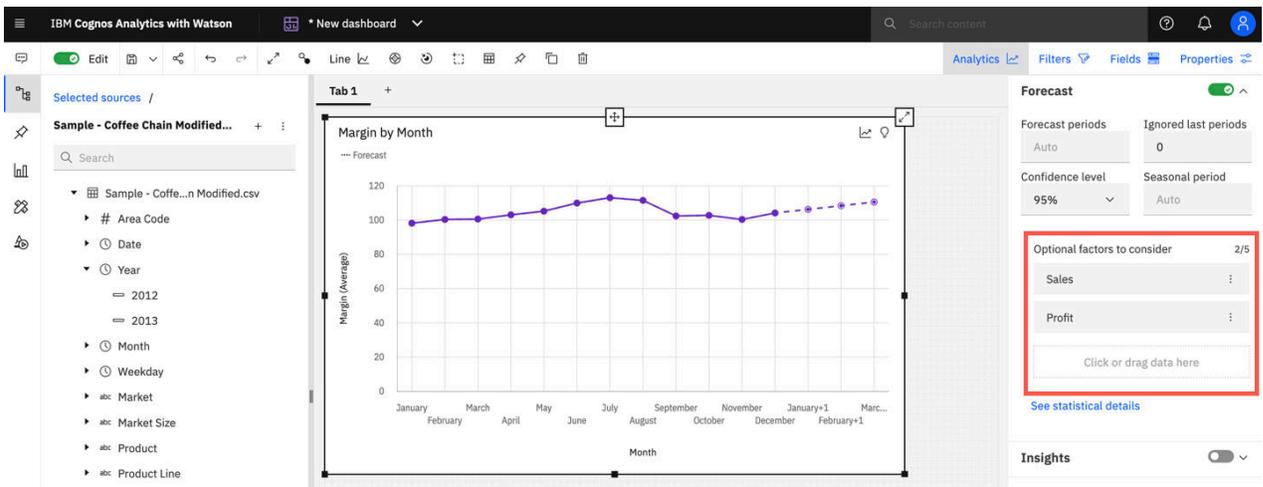
**Note:** Dashboards and Explorations with existing forecasts now display the enhanced forecast model.

## Multivariate forecasting now supported

You can now create multivariate forecasts in IBM Cognos Analytics with Watson. In a multivariate forecast, the forecast takes into consideration multiple variables that work together or have dependencies. This can yield a more accurate forecast.

You can create a multivariate forecast by enabling **Forecast** under the **Analytics** panel. Under **Optional factors to consider**, add the measures you want the forecast to consider.

**Note:** The additional factors that are considered do not actually display in the forecast.



If the forecast determines that the measures you selected have no dependency with each other, it displays a univariate model instead. A univariate model creates a forecast for one variable without considering any other variables.

To see which forecast model was chosen for forecasting and the algorithm used, click **Statistical details** and check the **Notes** column under **Forecasting statistical details**.

For more information, see [Creating a multivariate forecast](#).

## Embedded dashboards in Microsoft Teams

In Microsoft Teams, you can add a tab with an embedded dashboard from an external Cognos Analytics environment. On any platform, Teams users can then perform interactive analyses of the dashboard without having to log in to Cognos Analytics themselves.

For more information, see "Embedding a dashboard in Microsoft Teams" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

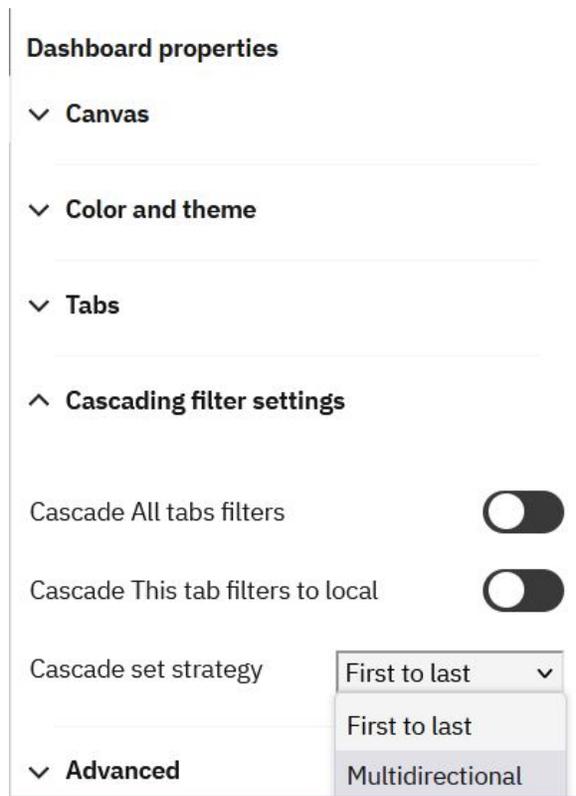
## Cascading filters

Cognos Analytics dashboards provide new option to allow filter selections in the **All tabs** area (**Filters** tab) to affect the available selections in a different category.

With this option enabled, any category that is used as a filter in the **This tab** area, or as a local filter, would not show values that would be filtered out by any of the filters in the **All tabs** area.

There is also an option to allow filters to cascade from the **This tab** area to local filters on a visualization.

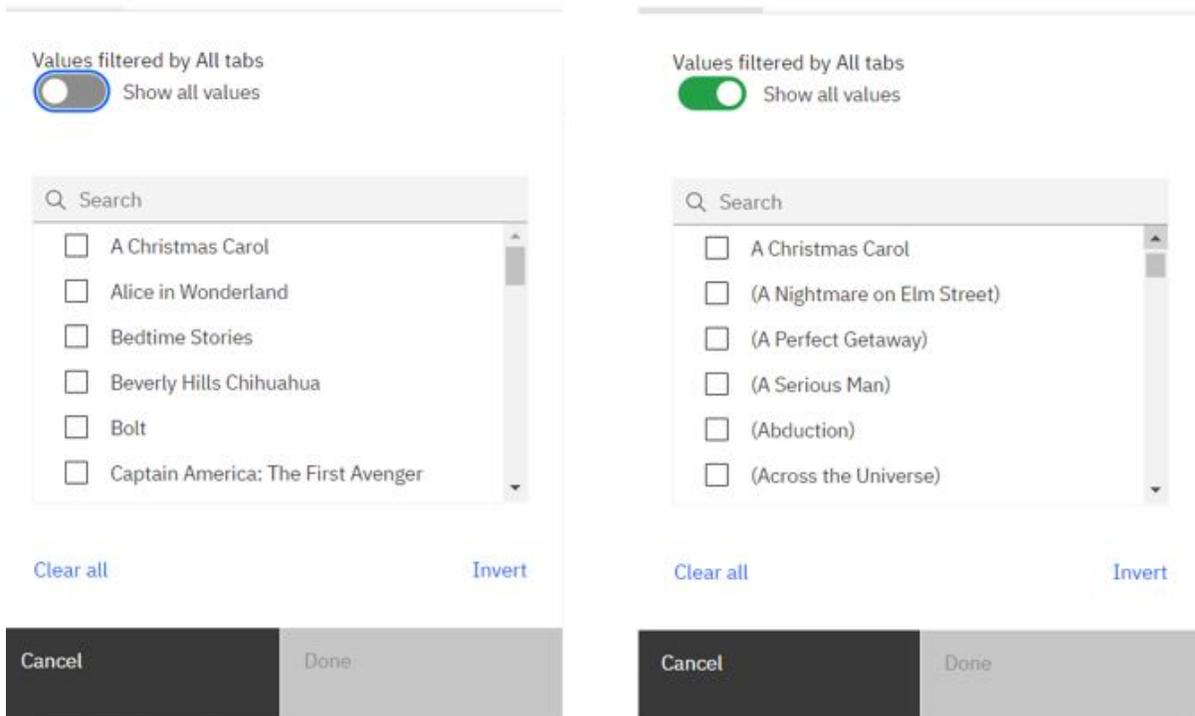
Filters in either area can be grouped in a cascade set. Filters in a cascade set can affect selections for other filters in the set. Filters in a cascade set can affect each other in two possible ways: **First to last** or **Multidirectional**.



You can create one cascade set in an area for each data source.



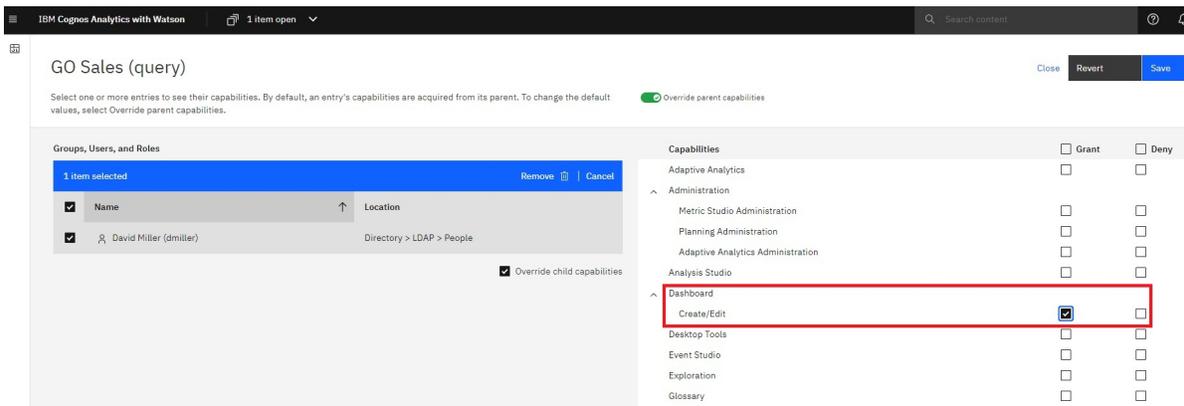
The following image shows the new user interface elements in the filter dialog box.



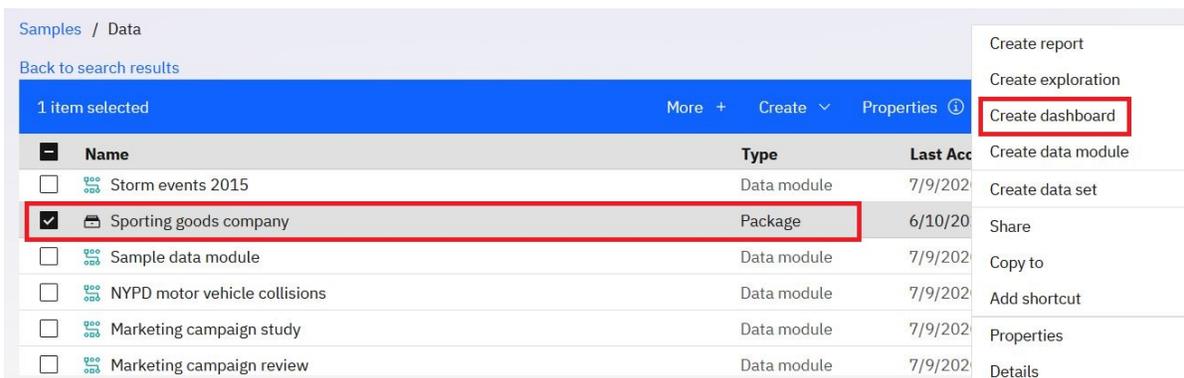
## Support for package capabilities

Access to specific functions in package-based dashboards depends on package capabilities.

You need the **Dashboard > Create/Edit** package capability to use more advanced functions in package-based dashboards.



For example, you need this capability to use the **Create dashboard** option from the package context menu, as shown in the following image.



The following functions in a package-based dashboard depend on the **Create/Edit** package capability. These functions are not available if the dashboard contains even one package for which a user doesn't have this capability.

- Creating a dashboard against a package or adding packages as data sources in dashboards.
- Using the **Edit** mode in dashboards, copying and pasting widgets that use the package, and saving the dashboard.
- Adding pins in the dashboard canvas.
- Using the **Create dashboard** option in the **Assistant** panel if the selected data source is a package.

For more information, see "Set up object capabilities for a package" in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

## Auto-group feature

You can now create only one Auto-group per visualization.

For more information, see the "Grouping data" topic in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*.

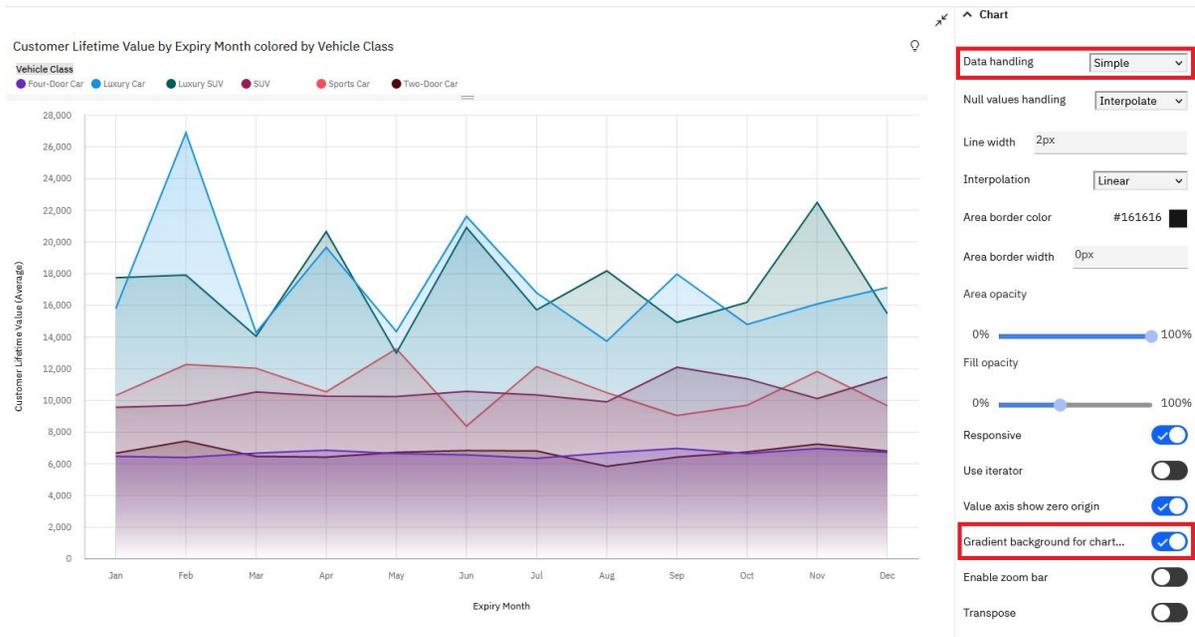
## Gradient fill effect and new interpolation options in area visualizations

You can specify the gradient fill effect and new interpolation options in the area visualization.

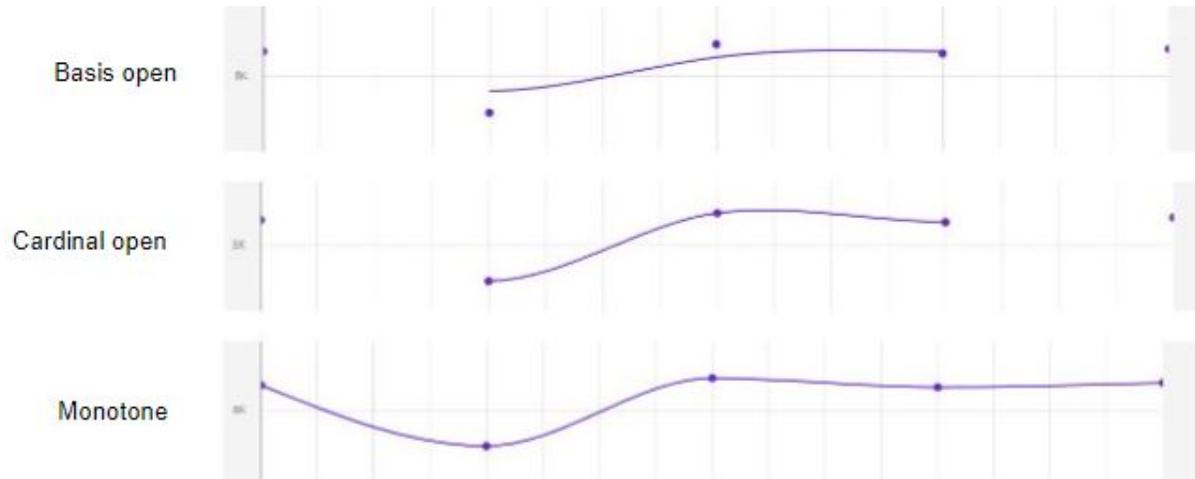
The following enhancements were introduced in this release:

- The property **Gradient background for chart**

This property is available when the **Data handling** property is set to **Simple**. When you enable this property, the gradient fill effect is applied to the chart.



- New **Interpolation** options



For more information, see "Area" in the *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

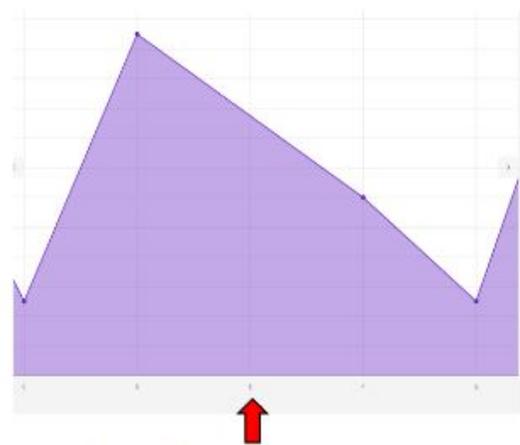
## Handling null values in area and line visualizations

A value in area or line visualization can be interpolated or shown as a gap.

By default, null is shown as zero.



Point with zero value, shown as gap



Point with zero value interpolated

For more information, see "Area" and "Line" in the *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

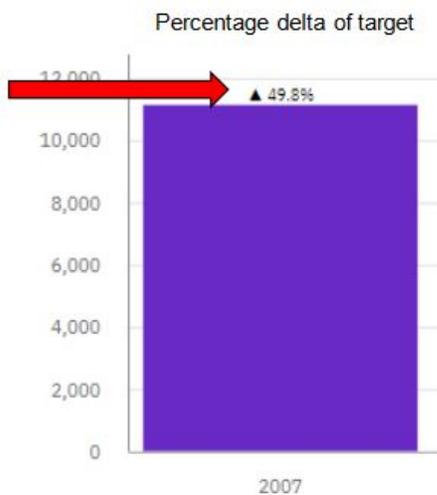
## New value label formats in bar visualizations

New value label formats are available for bar visualizations.

The bar chart includes the following value label formats:

- Value and percentage of category – two values in the value label
- Value and percentage of color – two values in the value label
- Value delta of target
- Percentage delta of target

The following image shows the percentage and value delta of target. The target marker is replaced by the new value label, with the arrow icon pointing to growth or loss.



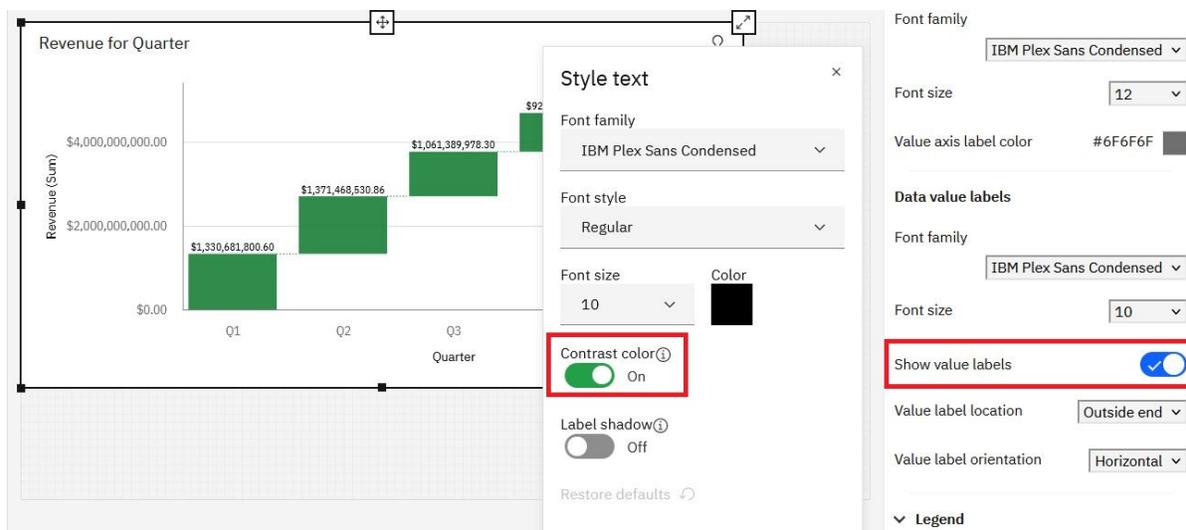
The new bar charts provide improved performance and more flexible configuration. They are backward-compatible with the previous visualization bundle.

For more information, see "Bar" in the *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

## Changed default for the contrast label property in some visualizations

The **Contrast label** property on value labels is turned on by default in **Line and column** and **Waterfall** visualizations.

In previous versions of Cognos Analytics, the **Contrast label** property for these two visualizations was turned off by default.



To view the **Contrast label** property, in the visualization properties panel, **Axis > Data value labels** section, enable **Show value labels**. Then, right-click any of the value labels, and select **Style text**.

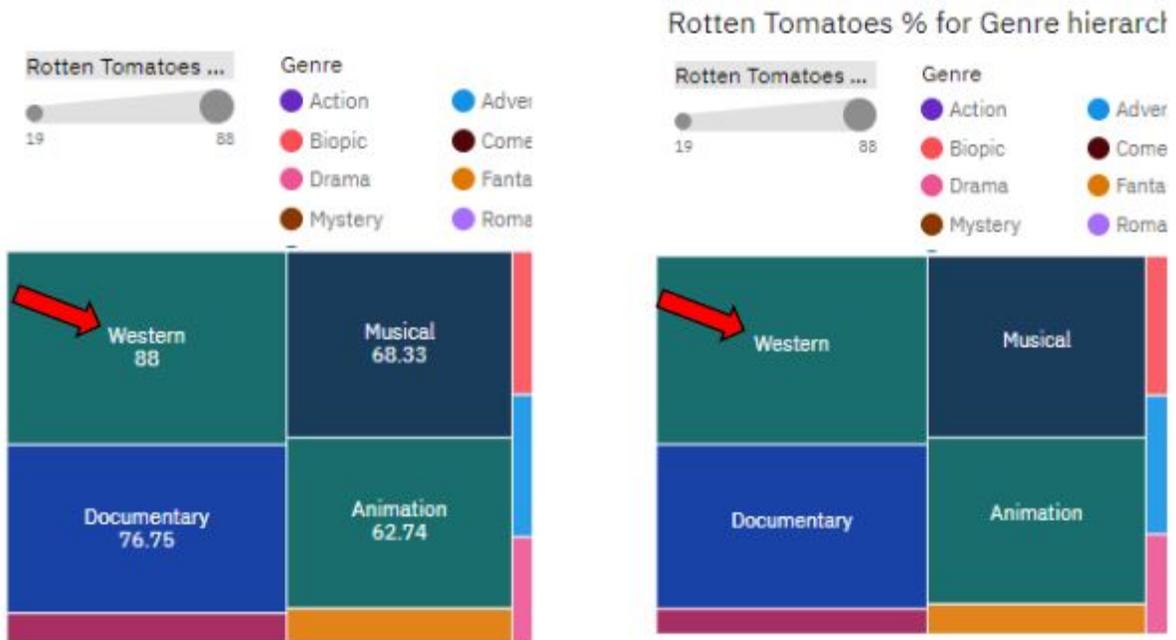
For more information, see "Line and column" and "Waterfall" in the *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

## Leaf label formats in treemap visualizations

Leaf labels in treemap visualizations can now be shown as value, item, or both.

Use the **Leaf label format** property to specify the label display. This property has the following values:

- **Item** - the label name is shown.
- **Value** - the label value is shown.
- **Both** - both the label name and value are shown.



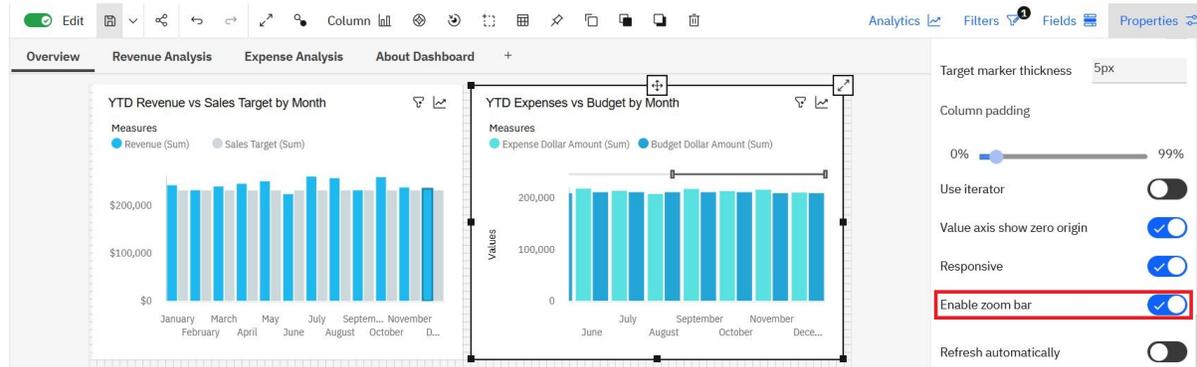
For more information, see "Treemap" in the *IBM Cognos Analytics with Watson Dashboards and Stories User Guide*

## Zoom bar in area, line, and bar visualizations

The zoom bar allows for horizontal scrolling in a visualization.

The property **Enable zoom bar** is added for area, bar, and line visualizations. When this property is enabled, a bar with a left and right handle is added to the chart. Users can drag the handle on the bar to perform horizontal zooming.

In the following image, this property is enabled for the second bar chart.



When the zoom bar is enabled, mouse scrolling is disabled.

## Share content via Microsoft Teams

You can share your Cognos Analytics dashboard and report content, as well as your own message, via Microsoft Teams. Building on its existing integration with Slack, Cognos Analytics now also gives you the option to use Microsoft Teams to share content with colleagues.

For more information, see "Sharing content from the canvas" in the *Cognos Analytics Getting Started Guide*.

## Display multiple measures on rows instead of columns

You can now display multiple measures on the rows instead of the columns in the Crosstab visualization.

When there is at least one column in the **Columns** field and at least two measures in the **Values** field, you can display the measures on the rows instead of the columns in the Crosstab visualization.

To display measures on the rows, click the **Properties** icon, then navigate to the **Show values on** field and select **Rows (when best)**.

For more information, see "Crosstab" in the *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

## Select filter values from a drop-down list

You can now select filter values from a single drop-down list to other visualizations that are on the canvas.

The drop-down list allows you to filter other visualizations based on the values that you select. Use the drop-down list with either the single selection or multi-selection mode.

Use the drop-down list from the **Change visualization** icon  in the toolbar.

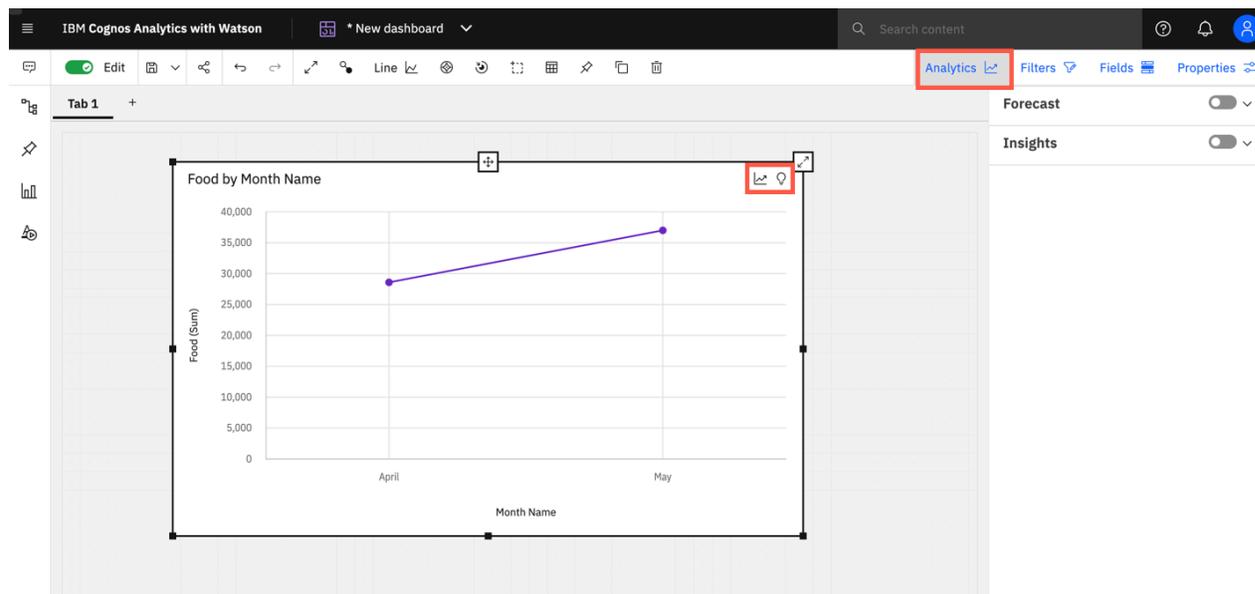
For more information, see "Drop-down list" in the *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

## Explorations

Uncover hidden relationships and identify patterns that turn your data into insights with IBM Cognos Analytics with Watson explorations.

## Insights and Forecast now on the new Analytics panel

You can now access visualization insights and the forecasting feature from the new **Analytics** panel. To open the **Analytics** panel, click the **Analytics** tab, or click the **Forecast** or **Insights** icon in the visualization.



The new **Analytics** panel lets you easily work with both **Forecast** and **Insights** even if you are not in **Edit** mode.

Turn on the **Forecast** feature to create a forecast. Under **Forecast**, you can now also create a multivariate forecast that considers multiple variables that work together or have dependencies. Add measures to the

**Optional factors to consider** slots to create a multivariate forecast. Click **See statistical details** to see the statistical information of the forecast you created.

Enable the **Insights** feature to see [visualization insights](#).

You can also see warnings and errors right there in the panel.

The screenshot displays the Analytics interface with the following components:

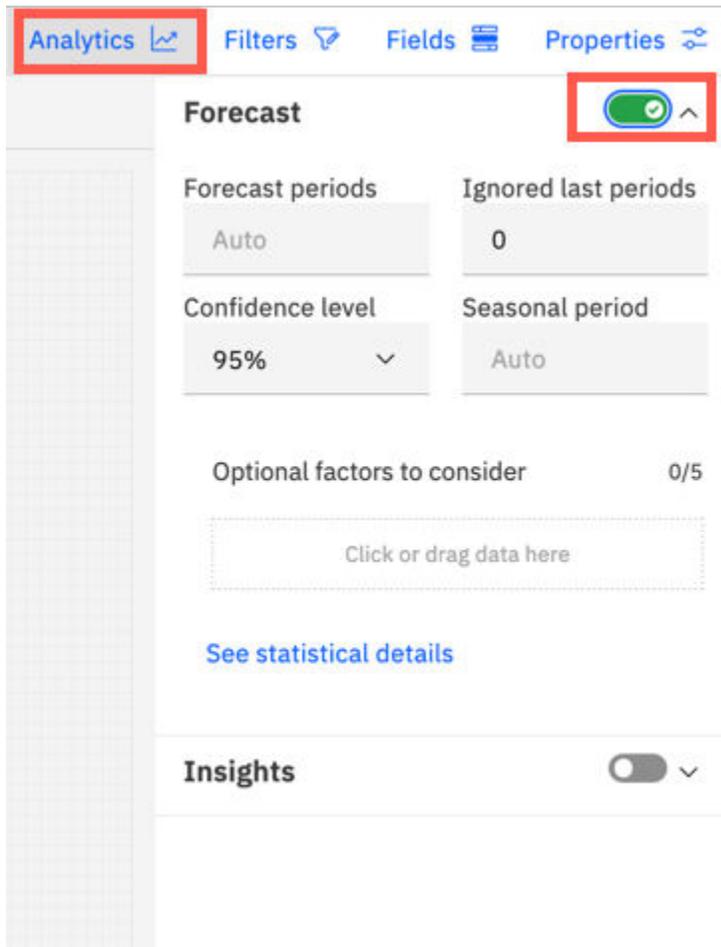
- Navigation Bar:** Analytics (selected), Filters, Fields, Properties.
- Forecast Panel:**
  - Forecast: Enabled (toggle on).
  - Forecast periods: Auto.
  - Ignored last periods: 0.
  - Confidence level: 95% (dropdown).
  - Seasonal period: Auto.
  - Optional factors to consider: 0/5.
  - Placeholder: Click or drag data here.
  - Link: See statistical details.
- Insights Panel:**
  - Insights: Enabled (toggle on).
  - Show average value: Enabled (toggle on).  
The average value of Food is 32,792.
  - Show meaningful differences: Enabled (toggle on).  
Too few categories.
- Annotation warnings:**
  - Forecasting did not succeed for one or more series due to an insufficient number of historical data points (at least 5 non-ignored points are required). Refer to Forecasting statistical details for more information.
- Annotation errors:**
  - Analysis was not performed because there are too few categories. If filters are applied, then consider adjusting them to get more categories.

## Enhanced forecasting with the Watson Core time-series library

The time-series forecasting feature now uses the Watson Core library. Using the Watson Core time-series library increases the prediction accuracy of the forecasts and allows the use of multiple seasons

(or nested seasons). Time series that have regular repeating cycles can be modeled with a seasonal component.

To create a forecast, enable **Forecast** in the **Analytics** panel.



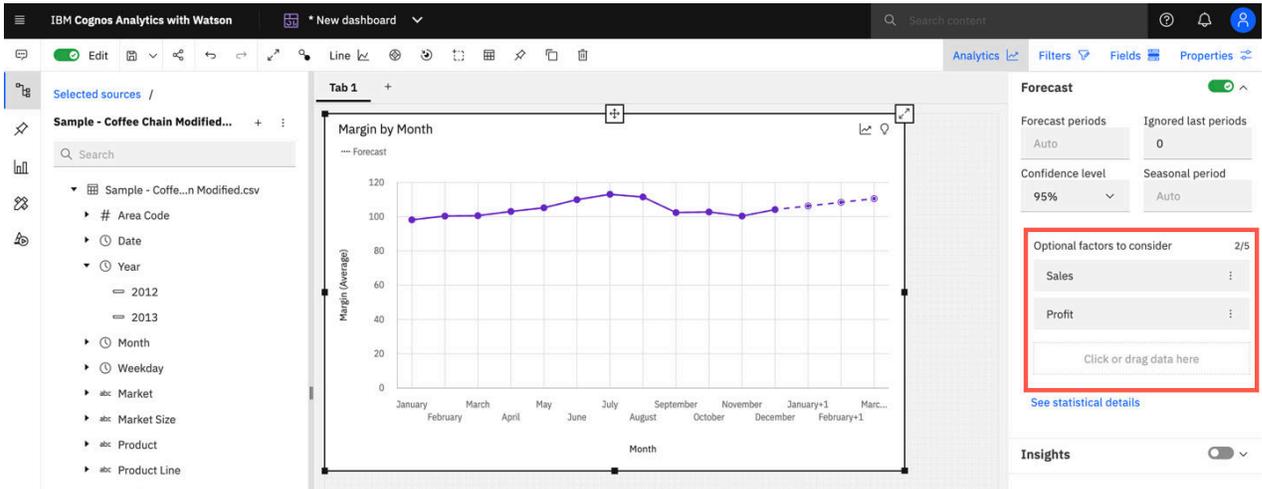
**Note:** Dashboards and Explorations with existing forecasts now display the enhanced forecast model.

## Multivariate forecasting now supported

You can now create multivariate forecasts in IBM Cognos Analytics with Watson. In a multivariate forecast, the forecast takes into consideration multiple variables that work together or have dependencies. This can yield a more accurate forecast.

You can create a multivariate forecast by enabling **Forecast** under the **Analytics** panel. Under **Optional factors to consider**, add the measures you want the forecast to consider.

**Note:** The additional factors that are considered do not actually display in the forecast.



If the forecast determines that the measures you selected have no dependency with each other, it displays a univariate model instead. A univariate model creates a forecast for one variable without considering any other variables.

To see which forecast model was chosen for forecasting and the algorithm used, click **Statistical details** and check the **Notes** column under **Forecasting statistical details**.

For more information, see [Creating a multivariate forecast](#).

## Support for package capabilities

Access to package-based explorations depends on package capabilities.

You need the **Exploration** package capability to access the user interface and functionality in package-based explorations.

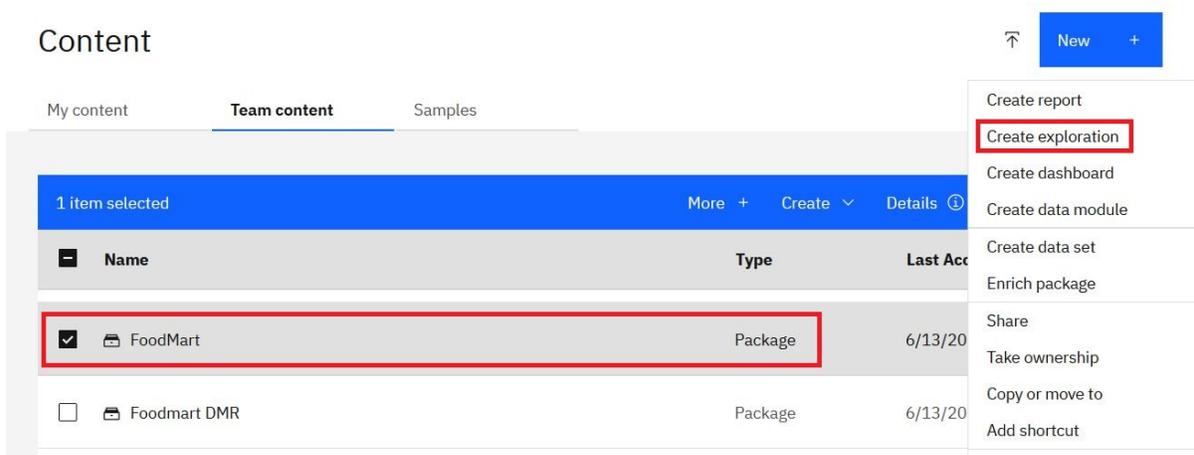
FoodMart

Select one or more entries to see their capabilities. By default, an entry's capabilities are acquired from its parent. To change the default values, select **Override parent capabilities**.

Override parent capabilities

Groups, Users, and Roles	Capabilities	<input type="checkbox"/> Grant	<input type="checkbox"/> Deny
1 item selected	Adaptive Analytics	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Name	Administration	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Authors	Analysis Studio	<input type="checkbox"/>	<input type="checkbox"/>
	Dashboard	<input type="checkbox"/>	<input type="checkbox"/>
	Desktop Tools	<input type="checkbox"/>	<input type="checkbox"/>
	Event Studio	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Override child capabilities	<b>Exploration</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Glossary	<input type="checkbox"/>	<input type="checkbox"/>
	Lineage	<input type="checkbox"/>	<input type="checkbox"/>

Without this capability, you cannot view data in the exploration, and the **Create exploration** option from the package context menu, as shown in the following image, is not available to you.



In addition, you must have the Exploration capability on packages to perform these tasks:

- add or relink the package in the exploration environment
- copy widgets from a dashboard to an exploration if the widgets contain packages

For more information, see "Set up object capabilities for a package" in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

## Reporting

IBM Cognos Analytics with Watson reporting is a web-based report authoring tool that professional report authors and developers use to build sophisticated reports against multiple databases.

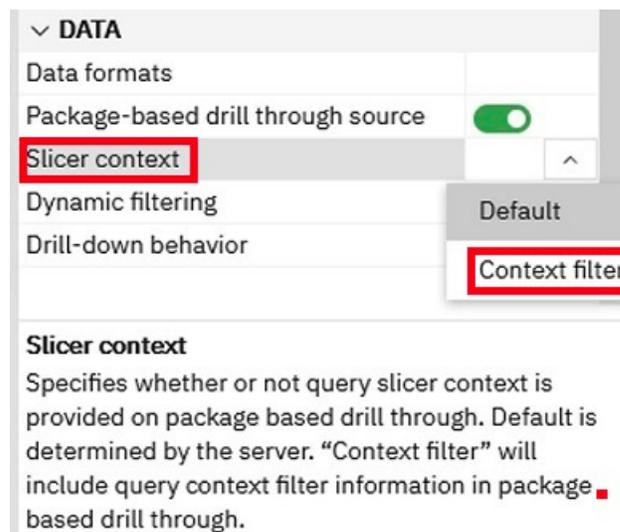
### Controlling drill-through behavior when context filters are used

You can change the default package-based drill-through behavior in Cognos Analytics - Reporting when using context filters.

By default, when performing drill-through in Reporting, context filter values are not automatically passed to the target report. To change this behavior, use one of the following settings:

- **Slicer context** property in Reporting

Set this property to **Context filter** in the drill-through source report, as shown in the following image:



- **RSVP.SLICER\_ON\_DRILL** advanced property on the report service or batch report service  
Add this property and set its value to context, as shown in the following image:

Configuration Library Multitenancy Mobile

**Set advanced settings - ReportService**

Specify the advanced configuration settings for this entry. By default, an entry acquires its advanced settings from a parent.

Parameter	Value
RSVP.SLICER_ON_DRILL	context

To disable this property, delete it or set its value to no.

For more information, see "Configuring advanced settings for specific services" and "Report service and batch report service advanced settings" in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

As a result, when performing drill-through from Reporting to Reporting, values included in the context filter are automatically passed to the target report as filter values.

The image shows two screenshots from the IBM Cognos Analytics interface. The top screenshot shows the 'Context Filter Source' configuration page. The 'Context filter' is set to 'Americas'. Below, a table shows the drill-through and context filter configuration:

Revenue	<#Product line#>	<#Product line#>
+<#Year#>	<#1234#>	<#1234#>
+<#Year#>	<#1234#>	<#1234#>

The bottom screenshot shows the 'Drill through and Context filter' target package. A 'Related links' dialog box is open, showing 'Context Filter Drill' and 'Context Filter Drill No Region'. Below the dialog, a table shows the drill-through results:

Year	Sales region	Revenue
2010	Americas	192,230,456.30

**Important:** Slicer information is not included in the drill-through definition.

For more information, see the "Understanding drill-through concepts" topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Hiding user interface elements in Reporting

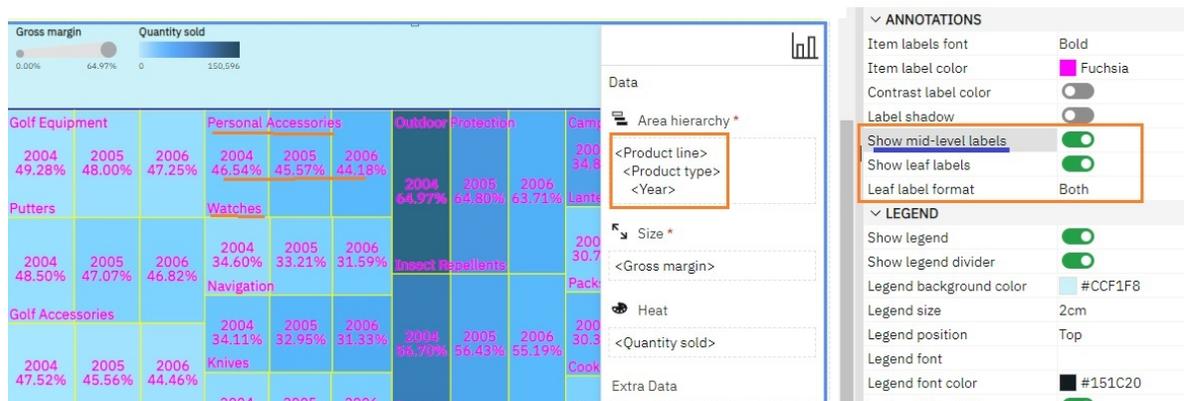
Administrators can hide the **Properties** pane or the **More** button from specified users of Cognos Analytics Reporting. This simplifies the user interface for business users who want to create simple, ad hoc reports.

For more information, see "Hiding the Properties pane in reports" and "Hiding the More button in reports" in the *Cognos Analytics Managing Guide*.

## New leaf label properties in treemap visualizations

New version of treemap visualization is integrated with Cognos Analytics - Reporting.

The new treemap version provides improved performance and additional properties, and is backward-compatible with the previous version.



The treemap supports the following new properties:

### Show mid-level labels

The mid-level labels are separated from **Show leaf labels**. These labels are available only on three-level treemaps, and always display the item name.

### Show leaf labels

When this property is enabled, the values in each rectangle within the treemap are shown permanently. When this property is disabled, the values are shown only when you hover your cursor over the rectangle.

### Leaf label format

The values are **Item**, **Value**, or **Both**.

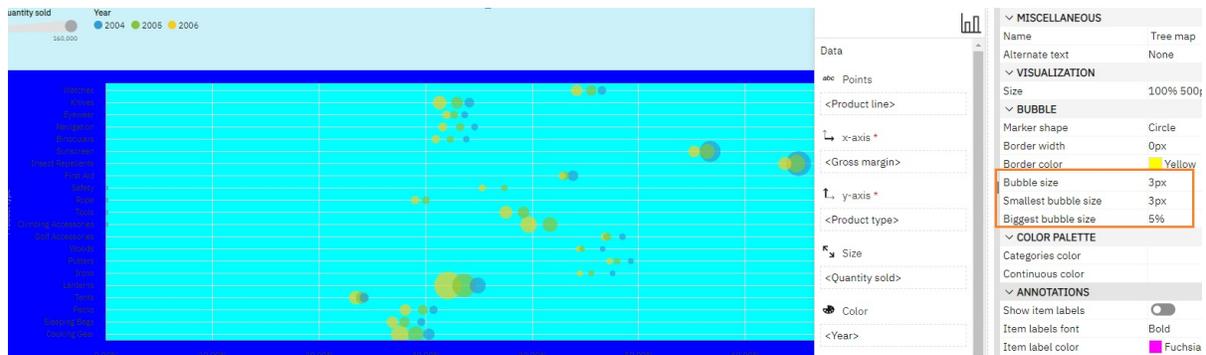
The new version of treemap is supported in the HTML output only. Upgraded reports continue to use the old treemaps that support PDF output.

For more information, see "Treemap" in the *IBM Cognos Analytics with Watson Reporting Guide*.

## New properties in bubble and scatter visualizations

New versions of bubble and scatter visualizations are integrated with Cognos Analytics - Reporting.

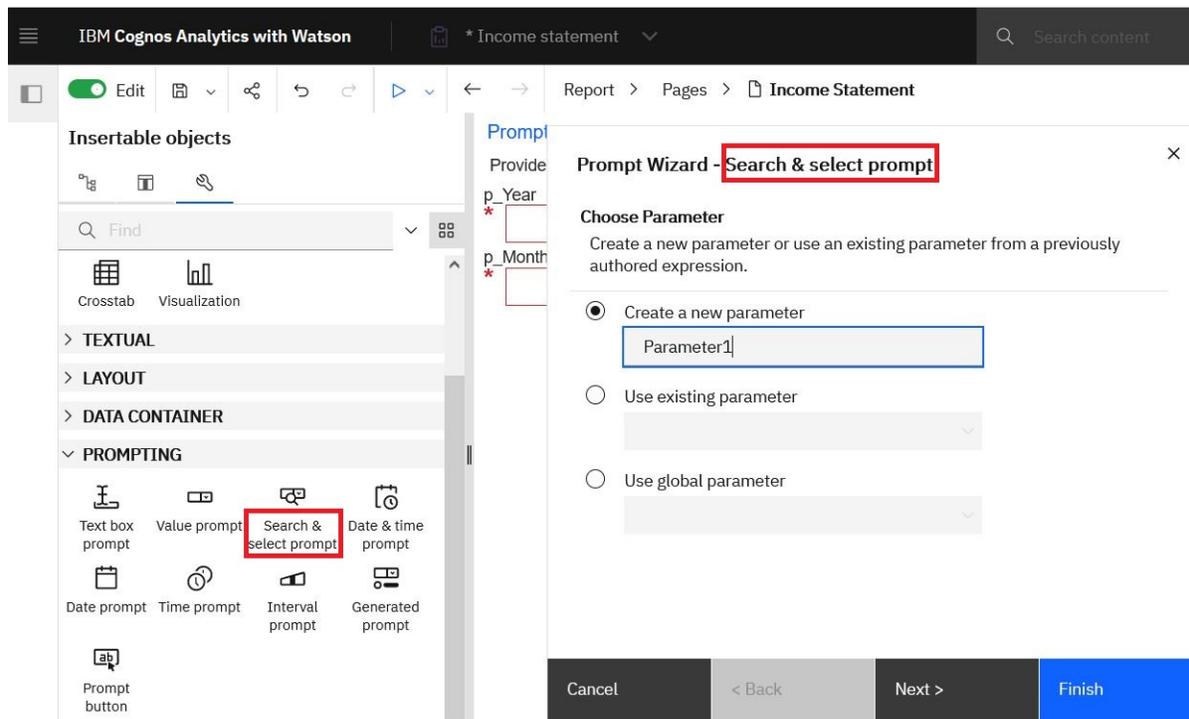
These two visualizations now support new properties that you can use to specify the border width and color, size of bubbles, minimum and maximum size of bubbles, and label rotation.



For more information, see "Changing properties for visualizations version 11.x" in the *IBM Cognos Analytics with Watson Reporting Guide*.

## Select & search prompt renamed to Search & select

The **Select & search** prompt in Reporting is renamed to **Search & select**.



For more information, see the "Build Your Own Prompt and Prompt Page" topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Q promises replaced by native JavaScript promises

All Q promises in Cognos Analytics - Reporting were replaced with native JavaScript promises.

Q promises are no longer packaged or exposed through the product external APIs, such as custom controls API. If you have custom controls or visualizations that use Q promises, you need to migrate them to native JavaScript promises.

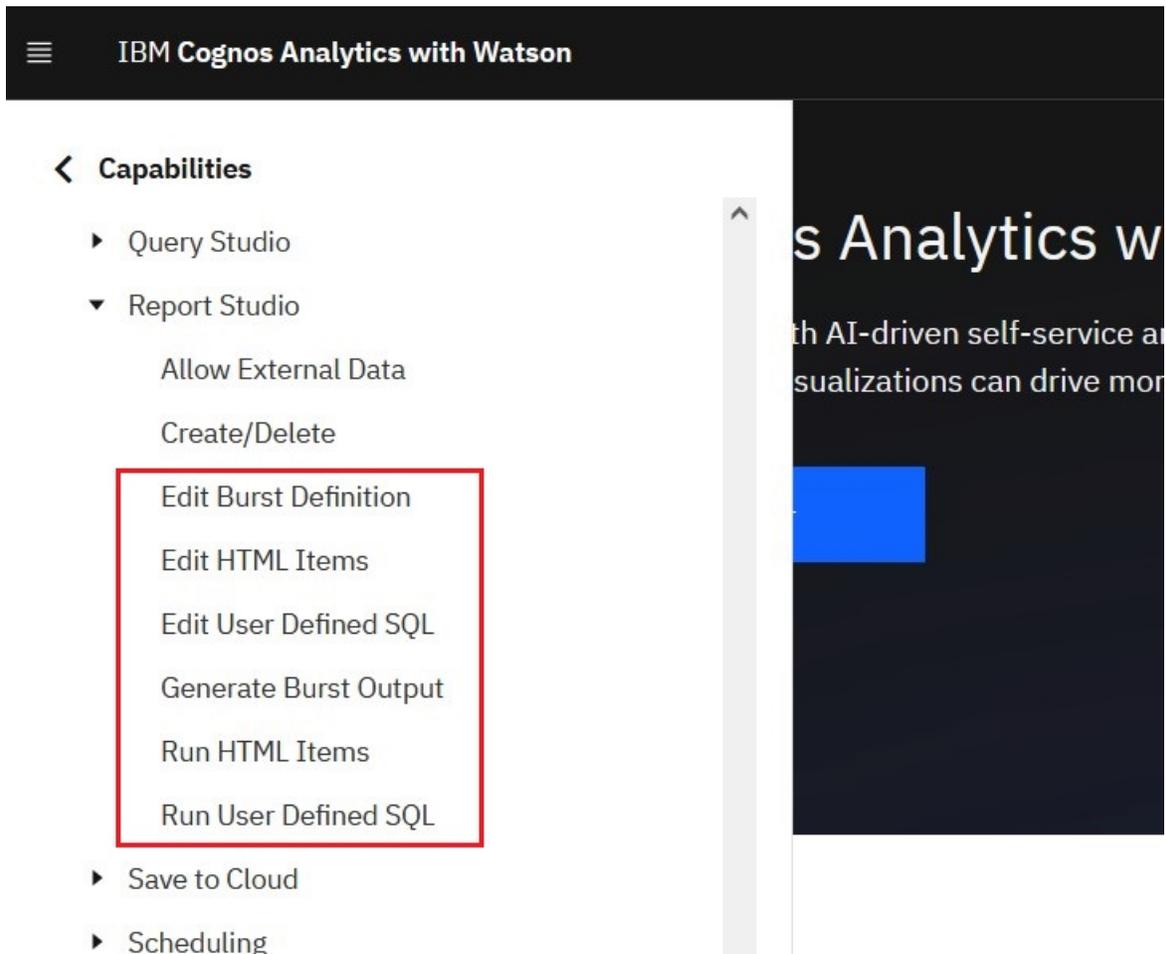
For more information, see [Scriptable Reports \(https://public.dhe.ibm.com/software/data/sw-library/cognos/mobile/scriptable\\_reports/Page.HTML\)](https://public.dhe.ibm.com/software/data/sw-library/cognos/mobile/scriptable_reports/Page.HTML). This link is available only to internal IBM users and partners.

## More granular Reporting capabilities

As of release 11.2.3, the Reporting Capability is enhanced to give Directory Administrators more flexibility. Previously, users with access to the secured features for Bursting, HTML content, and SQL content could either both edit and run the associated code - or they could do neither.

Now there is a separate secured feature for each task:

- **Edit Burst Definition** allows users to author burst reports.
- **Generate Burst Output** allows users to run burst reports.
- **Edit HTML Items** allows users to edit the HTMLItem button and hyperlink elements of the report specification when they author reports.
- **Run HTML Items** allows users to use the HTMLItem button and hyperlinks.
- **Edit User Defined SQL** allows users to edit the SQL statements directly in the query specification.
- **Run User Defined SQL** allows users to run the query specifications that contain SQL statements.



For more information, see these topics:

- "Report Studio capability" in the *Managing IBM Cognos Analytics with Watson Guide*
- "Default permissions based on licenses" in the *Managing IBM Cognos Analytics with Watson Guide*

## Share content via Microsoft Teams

You can share your Cognos Analytics dashboard and report content, as well as your own message, via Microsoft Teams. Building on its existing integration with Slack, Cognos Analytics now also gives you the option to use Microsoft Teams to share content with colleagues.

For more information, see "Sharing content from the canvas" in the *Cognos Analytics Getting Started Guide*.

## Source reports captured for report views in Audit database

Report views in the audit database include a reference to their source reports when the report views are run.

The source report reference is maintained even when a report view is renamed. This way, the connection between the report view and its source report in the audit database is not lost.

## New table: AUDIT.DBO.COGIPF\_OBJECT\_INFO

```
Select
  [COGIPF_OBJECT_NAME],
  [COGIPF_BASE_OBJECT_NAME],
  [COGIPF_BASE_OBJECT_PATH]
from
  [AUDIT.DBO.COGIPF_OBJECT_INFO]
```

COGIPF_OBJECT_NAME	COGIPF_BASE_OBJECT_NAME	COGIPF_BASE_OBJECT_PATH
Main Report		
Report view of Main Report	Main Report	/folder[@name='My Folders']/folder[@name='New 11.2.3']/reportView[@name='Main Report']

## Modeling

Learn about new features and changes to the IBM Cognos Analytics with Watson modeling components, primarily data modules.

### Alias and shortcut tables in data modules

Alias and shortcut are new types of custom tables that data modules support.

When you create a custom table, new options **Shortcut to a table** and **Alias of a table** are available.

Create table ×

Create a custom table in the data module. This table is not added to your data source.

Selected tables +

Find

Product

- View of tables  
To create a view of a table, select one or more package tables, or select one or more non-package tables. ⓘ
- Shortcut to a table**  
To create a shortcut table, select one non-package table. ⓘ
- Alias of a table  
To create an alias table, select one non-package table. ⓘ
- Copy of a table  
To create a copy of a table, select one non-package table. ⓘ
- Joined view  
To create a join table, select one or two non-package tables. ⓘ
- Union of tables  
To create a union table, select two or more non-package tables that have the same number of columns with compatible data types. ⓘ
- Intersect of tables  
To create an intersect table, select two non-package tables that have the same number of columns with compatible data types. ⓘ
- Except of tables ⓘ

For more information, see the "Custom tables" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

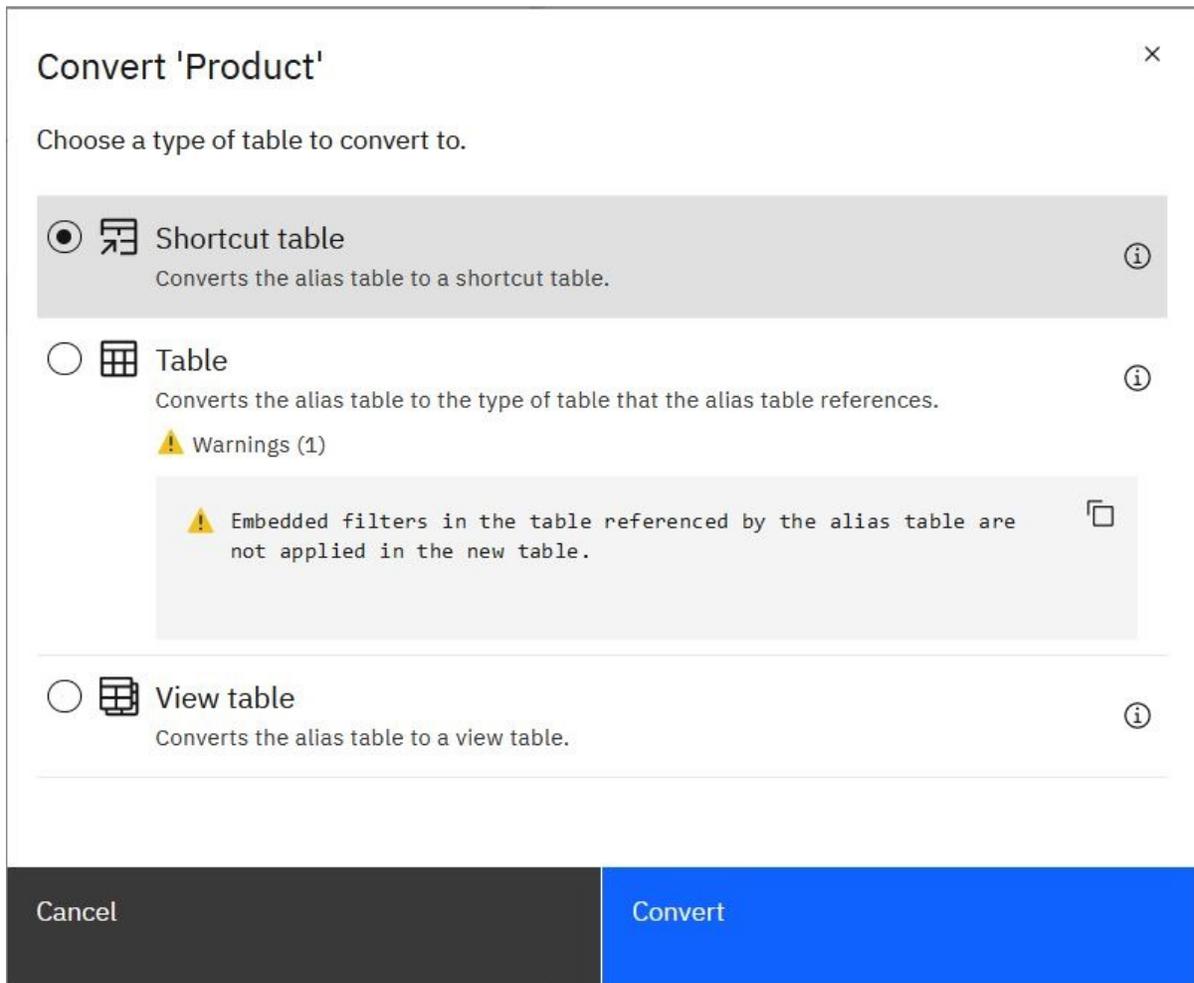
### Converting referenced tables

You can now convert some referenced tables to different types of tables.

The **Convert** option is available for the shortcut, alias, and view tables in a data module.

If the data module is sourced from another data module, the **Convert** option is available for all tables in the data module, except for **Union**, **Intersect**, and **Except**. In this case, the **Convert** option can be used instead of the **Break link** option to break table relationships to the source module.

The types of conversions that are available for a table depend on the table type. For example, the following conversions are available for an alias table:



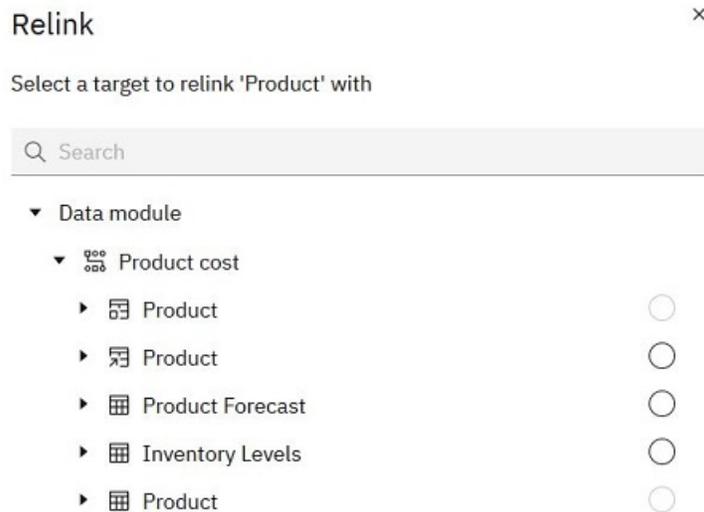
For more information, see the "Converting referenced tables" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Relinking referenced tables

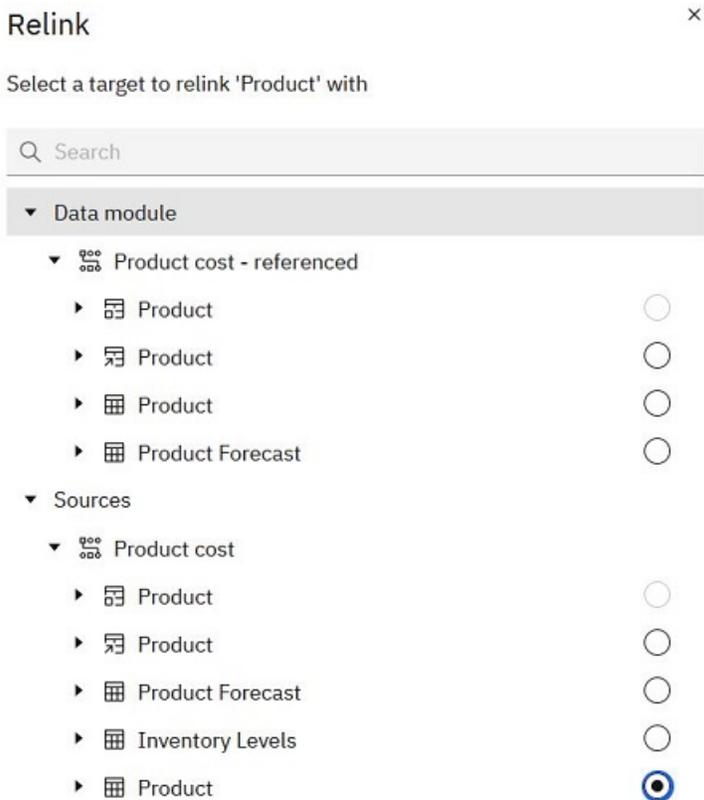
Shortcut and alias tables are based on references to other tables in a data module. You can change these references to point to different tables.

The **Relink** option is available only for shortcut and alias tables in a data module.

If the data module is based on a source other than data module, the **Relink** dialog box includes only the current data module, as shown in the following image:



If the data module is based on another data module, the **Relink** dialog box includes the current data module and the source data module, as shown in the following image:



For more information, see the "Relinking referenced tables" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Description property

The description field was added to the properties panel in data modules.

The **Description** property is available for most objects in the data module, such as tables, columns, calculations, folders, and more.

**Properties** ×

**General** | **Filters** | **Relationships**

Label: Offers

Hide from users:

Description ⓘ  
Accepted and declined offers.

Comments ⓘ

Screen tip ⓘ

**Advanced** ∨

When specified in the data module, the description is available in reports and dashboards that are based on this module.

Report > Pages > Page1

**Insertable objects**

Find +

--	--	--

**Properties** ×

Offers

<b>Description</b>	Accepted and declined offers.
<b>Model path</b>	storeID("3533482371_69d8c50da76043e9b7b19055faf9688b_sessionTemp")
<b>Ref</b>	[C].[C_Customer_analysis].[Sheet1_2]
<b>Path</b>	Customer analysis / Offers
<b>Usage</b>	

For more information, see the "Object properties" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Query optimization for relative date measures

Queries that are generated for relative date measures, defined in data modules, are optimized.

An optimal set of predicates is automatically injected into the WHERE-clause of the generated SQL. The predicates restrict the number of rows that are scanned when the query runs to only those rows that are required by the relative date measures.

This functionality is enabled by default. It is controlled by a set of governors (not exposed in data modules) and by advanced query hints in the debug mode in Reporting.

For more information, see the "Query optimization for relative date measures" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Security fix in Framework Manager

Framework Manager has addressed a vulnerability in XML processing in Apache Jena.

To implement this security fix, you must first uninstall and then reinstall Framework Manager. If you simply upgrade your existing Framework Manager installation to version 11.2.3, the fix will not be applied.

For more information about this vulnerability, see [CVE-2021-39239 Detail](https://nvd.nist.gov/vuln/detail/CVE-2021-39239) (<https://nvd.nist.gov/vuln/detail/CVE-2021-39239>).

## Notebook

IBM Cognos Analytics for Jupyter Notebook integrates Jupyter notebooks into IBM Cognos Analytics with Watson. You can create and upload notebooks into Cognos Analytics, and work with Cognos Analytics data in a notebook using Python scripts. You can also embed notebook output in a dashboard, story, or report.

### Export notebooks

A new option in the context menu allows you to export your notebook as an .ipynb file. You can then share your notebook with data scientists who may use other notebook tools, for example, Anaconda and Google Colab.

### Upgraded Python and R kernels

Cognos Analytics for Jupyter Notebook Server 11.2.3 contains upgraded kernel versions for Python and R. Upgraded kernels are more compatible with newer packages. This results in fewer errors when you run notebooks.

- The new Python kernel is version 3.9.7.
- The new R kernel is version 4.1.

For more information, see "Python notebook examples" or "R notebook examples" in the *Cognos Analytics Notebook User Guide*.

## Event Studio

Create agents that monitor your IBM Cognos Analytics with Watson data and notify decision-makers of events as they happen.

### Save to cloud option

Event Studio now allows you to save a report to a configured Cloud Object Storage location.

For more information, see "Customize the Report" in the *Cognos Analytics Event Studio Guide*.

## Administration

Manage the security, access, and functionality of IBM Cognos Analytics with Watson components.

### Microsoft Teams collaboration platform

You can configure a Microsoft Teams collaboration platform. Similar to the existing Slack collaboration platform, the new Teams platform allows Cognos Analytics users to share their content and messages via Microsoft Teams.

To set up the collaboration platform, you must perform these two tasks:

1. Create an application in Teams.

For more information, see "Creating a Microsoft Teams application" in the *Cognos Analytics Managing Guide*.

2. Configure Cognos Analytics to connect to Teams.

For more information, see "Adding a collaboration platform in Cognos Analytics" in the *Cognos Analytics Managing Guide*.

### Enhanced user interface for activities

The user interface of the **Activities** and **My Schedules and Activities** pages is more consistent and intuitive.

The following improvements are available in Cognos Analytics 11.2.3:

- The slide-out panel is removed, allowing administrators more room when monitoring activities.
- Pagination helps to avoid large data loads.
- Filtering is consistent with the administration console (filter by scope, dispatcher).
- Filters are more prominent and easier to remove.
- More group actions are consistent with the administration console.
- Context menu action is consistent with the administration console.
- Administrators can control whether to display a visualization.
- A refresh option removes the need to reload the browser.

The screenshot displays the administration console interface. At the top left, there is a 'Schedule' dropdown menu. Below it, there are two filter buttons: 'Status: Enabled' and 'Priority: 3'. A progress bar shows 'Enabled' at 2 and 'Disabled' at 0. The main content is a table with columns: Name, Modified, Type, and Scheduled by. The table contains two rows of activity data. On the right side, there is a 'Filter' panel with 'Scheduled by' set to 'All', 'Status' set to 'Enabled', and 'Priority' set to '3'. There are 'Select user' and 'Clear' buttons for the 'Scheduled by' filter, and a 'More filters' dropdown. At the bottom right, there are 'Reset' and 'Apply' buttons. The table has a 'Items per page 20' dropdown at the bottom left.

<input type="checkbox"/>	Name	Modified	Type	Scheduled by
<input type="checkbox"/>	> Boston 311 simple	Aug 4, 2022, 4:30:03 AM	Report	Harry Miller
<input type="checkbox"/>	> Classic report with 3600 second pause	Jun 2, 2022, 11:34:14 AM	Report	Harry Miller

**Note:**

As part of the Activities page redesign, some elements are removed. For example, the Find box above the Activity list no longer appears because it didn't follow the new design behavior of showing paged results.

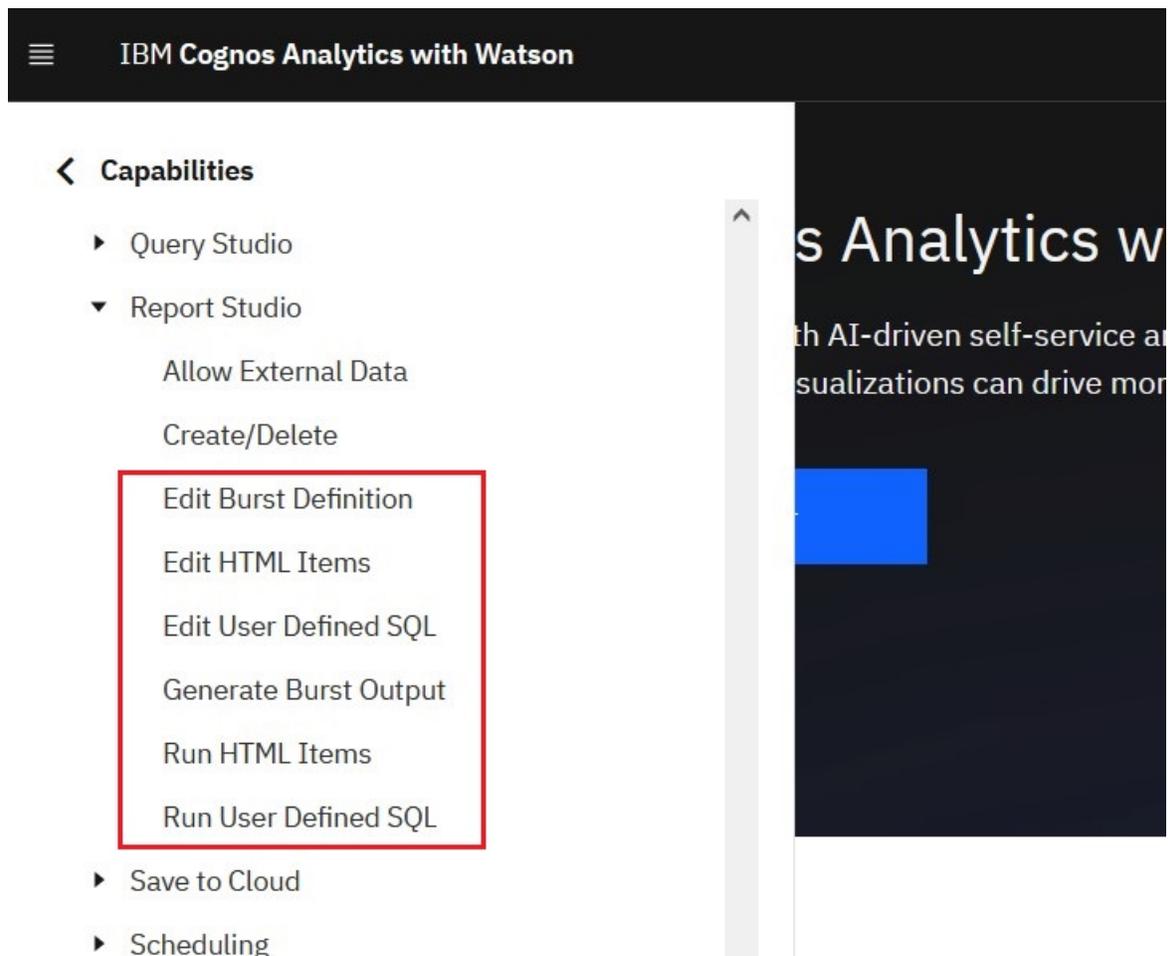
However, if you prefer to revert to the Activities interface that existed before release 11.2.3, you can configure the advanced setting `Admin.enableOldActivitiesUI` to have a value of `true`. For more information, see "Advanced settings" in the *Cognos Analytics Managing Guide*.

## More granular Reporting capabilities

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For more information, see these topics:

- "Report Studio capability" in the *Managing IBM Cognos Analytics with Watson Guide*
- "Default permissions based on licenses" in the *Managing IBM Cognos Analytics with Watson Guide*

## Hiding the video button in the Welcome page

Administrators can hide the **Watch video** button in the Welcome page for **Cognos** roles.

For more information, see "Hiding the Watch video button in the Home page" in the *Cognos Analytics Managing Guide*.

## Hiding user interface elements in Reporting

Administrators can hide the **Properties** pane or the **More** button from specified users of Cognos Analytics Reporting. This simplifies the user interface for business users who want to create simple, ad hoc reports.

For more information, see "Hiding the Properties pane in reports" and "Hiding the More button in reports" in the *Cognos Analytics Managing Guide*.

## New driver class for Dremio

The default driver class name used for new Dremio connections has changed to `com.dremio.jdbc.Driver`.

You can change existing connections by editing the driver class name property from `com.dremio.jdbc.impl.DriverImpl` to `com.dremio.jdbc.Driver`.

## New IBM Watson Query connection editor

A new connection editor, **IBM Watson Query**, allows you to connect to an IBM Watson Query data server.

You can configure the connection to pass an API key for the IBM Watson Query service. There are two ways to set the authentication method:

- Select **Connect anonymously** and specify the API key in the **Key** field.
- Select **Use the following signon**. Then define a signon with the user name `IBM_SUBSTOKEN_APIKEY` and specify the API key as the password.

For more information, see "Creating a data server connection" in the *IBM Cognos Analytics Managing Guide*.

## Changed label for IBM Cloud SQL connection editor

In the Cognos Analytics connection editor, the label **IBM Cloud SQL** has changed to **IBM Cloud Data Engine**.

**Note:** Existing connections will continue to function.

## New driver class for SingleStore

As of Cognos Analytics 11.2.3, new connections to SingleStore default to the SingleStore driver class. This requires version 1.1.3 or higher of the Singlestore JDBC driver.

To change existing connections that use the MariaDB Connector/J or MySQL Connector/J JDBC driver, update the URL to the format supported by SingleStore and alter the driver class name to refer to the SingleStore driver class name.

Singlestore recommends that their customers use their Singlestore JDBC driver instead of MySQL or MariaDB drivers.

For more information, see "SingleStore" in the *Cognos Analytics Managing Guide*.

## More data server connections that support JWT authentication

Cognos Analytics 11.2.3 provides an expanded list of data servers to which you can create connections using JSON Web Token (JWT) authentication.

For JWT authentication, data server connections use the associated JDBC driver to pass a JWT when authenticating to the database. In release 11.2.3, support for JWT authentication is new for these connection types:

- **Amazon Redshift**

Use the Amazon JDBC driver. The URL must include the plugging name-value pair `plugin_name=com.amazon.redshift.plugin.BasicJwtCredentialsProvider`. Amazon Redshift JDBC driver version 2.1.0.4 or higher is required.

**Note:** When you use Azure Active Directory and Amazon Redshift, you must include additional scope details by specifying the following name-value pair: `ibmcognos.oidc.scope=https://database.windows.net/.default`. For more information, see "ibmcognos.oidc.scope" in the *Cognos Analytics Managing Guide*.

- **Trino**

Use the Trino JDBC driver. A connection must include the Trino name-value pair `SSL=true`.

For a complete list of data server types for which Cognos Analytics supports authentication via JSON Web Tokens, see "Connections that support JWT authentication" in the *Cognos Analytics Managing Guide*.

## limit.per.email.sender

A new advanced setting, `limit.per.email.sender`, allows you to control the number of emails that are sent when a report is delivered by email.

The default value is 500, which means a single sender can send up to 500 emails every two minutes. After the counter reaches the limit, no additional emails are sent.

For more information, see "Limiting the number of emails sent when a report is delivered" in the *IBM Cognos Analytics Managing Guide*.

## Supported Software Environments page for release 11.2.3

Supported Software Environments information is available for IBM Cognos Analytics with Watson 11.2.3.

You can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.3.

Visit the 11.2 Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>.

## Vendor-supported driver versions tested with 11.2.3

IBM Cognos Analytics with Watson 11.2.3 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.3* [Relational] [OLAP] (<https://www.ibm.com/support/pages/node/6441017#11.2.3r>).

## Installation and configuration

Learn about changes to the IBM Cognos Analytics with Watson installation and configuration.

## Advanced properties for database connections in Cognos Configuration

Cognos Configuration now provides an **Advanced properties** option for all available database types when you configure a database connection. Previously, some database types did not contain the **Advanced properties** option.

For more information, see "Set Database Connection Properties for the Content Store" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Samples

Get a deeper understanding of IBM Cognos Analytics with Watson capabilities with updated sample content.

### Updated Base Samples

Cognos Analytics 11.2.3 contains the following new and updated [Base Samples](#).

#### Global parameter date picker

The sample report Global parameter date picker is enhanced to include a new parameter for the Dynamic As Of Dates feature. Users can now select Yesterday, Last Sunday, or the `_as_of_date` Global Parameter as their reference date.

Team content > Calendars > Tools > Global parameter date picker

#### Renamed Base Samples

The following Base Samples were renamed in the 11.2.3 release:

- California website visits (Dashboard) > Map gallery dashboard
- Corporate website visits (Report) > Map gallery report
- California Website Visits (Data Module) > Website visits data module
- NLA 2021 v 2020 results (Dashboard) > Loyalty card year over year comparison
- NLA 2018 promotion (Exploration) > Loyalty card marketing promotion analysis
- NLA 2017 year end analysis (Report) > Loyalty card year-end analysis
- NLA 2018 executive presentation (Story) > Loyalty card executive presentation
- 2019 Q3 sales action plan (Story) > Q3 sales action plan

#### Renamed uploaded files

The following uploaded files were renamed:

- bad\_sentiments.xlsx > AU\_Bad\_Sentiment.xlsx
- Banking\_loss\_events.xlsx > GS\_Banking\_Loss\_Events.xlsx
- Branch.xlsx > GO\_Branches.xlsx
- California\_Zip\_Website\_Visits.xlsx > GS\_California\_Zip\_Website\_Visits.xlsx
- Cancellation\_dates.csv > TT\_Loyalty\_Cancellation\_Dates.csv
- car\_models.xlsx > AU\_Car\_Models.xlsx
- Car\_Recalls.xlsx > AU\_Car\_Recalls.xlsx
- Class\_roster.csv > ED\_Class\_Roster.csv
- classes\_2017.csv > ED\_Classes.csv
- Courses.csv > ED\_Courses.csv
- Customer\_analysis.csv > IN\_Customer\_Analysis.csv
- Customer\_analysis\_offers.xlsx > IN\_Customer\_Analysis\_Offers.xlsx
- Customer\_analysis\_policyholders.xlsx > IN\_Customer\_Analysis\_Policy\_Holders.xlsx

- Customer\_analysis\_renewals.xlsx > IN\_Customer\_Analysis\_Renewals.xlsx
- Customer\_analysis\_targets.xlsx > IN\_Customer\_Analysis\_Targets.xlsx
- Customer\_loyalty\_card\_summary.csv > TT\_Loyalty\_Card\_Summary.csv
- dealers.xlsx > AU\_Dealers.xlsx
- Demographics.csv > ED\_Demographics.csv
- Enrollment.xlsx > ED\_Enrollment.xlsx
- Enrollment\_dates.csv > TT\_Loyalty\_Enrollment\_Dates.csv
- Final\_grades.csv > ED\_Final\_Grades.csv
- FiscalCalendarJanuary1.csv > FiscalCalendarJanuary1.csv
- GO Sales by year and month.xlsx > GO\_Sales\_by\_Year\_and\_Month.xlsx
- GO sales CY and PY.xlsx > GO\_Sales\_CY\_and\_PY.xlsx
- GS\_Website\_Visits\_USA\_Regions.xlsx > GS\_Website\_Visits\_USA\_Regions.xlsx
- Hospital\_admissions.xlsx > HC\_Hospital\_Admissions.xlsx
- Incentive\_Compensation\_Management\_Conduct\_Risk.xlsx > BA\_Incentive\_Compensation\_Management\_Conduct\_Risk.xlsx
- K12\_record.csv > ED\_K12\_Record.csv
- KPI\_attendance.xlsx > ED\_KPI\_Attendance.xlsx
- KPI\_data.xlsx > ED\_KPI\_Data.xlsx
- KPI\_enrollment.xlsx > ED\_KPI\_Enrollment.xlsx
- KPI\_teacher.xlsx > ED\_KPI\_Teacher.xlsx
- Loyalty\_card\_customers.csv > TT\_Loyalty\_Card\_Customers.csv
- Loyalty\_card\_segmentation\_summary.csv > TT\_Loyalty\_Card\_Segmentation\_Summary.csv
- Machine\_Events.xlsx > IM\_Machine\_Events.xlsx
- Machine\_States.xlsx > IM\_Machine\_States.xlsx
- Machines.xlsx > IM\_Machines.xlsx
- Month\_name\_lookup.xlsx > TT\_Loyalty\_Month\_Name\_Lookup.xlsx
- Order.xlsx > GO\_Orders.xlsx
- Order\_method.xlsx > GO\_Order\_Methods.xlsx
- Plants.csv > IM\_Plants.csv
- Production\_Run.xlsx > IM\_Production\_Run.xlsx
- Production\_Run\_Machine\_Output.xlsx > IM\_Production\_Run\_Machine\_Output.xlsx
- Production\_Run\_Machine\_Quality.xlsx > IM\_Production\_Run\_Machine\_Quality.xlsx
- Products.xlsx > GO\_Products.xlsx
- Products\_Industrial\_Manufacturing.xlsx > IM\_Products.xlsx
- Quality.csv > IM\_Quality.csv
- retailCalendar\_454\_2016\_2022.csv > retailCalendar\_454\_2016\_2025.csv
- Retailer\_type.xlsx > GO\_Retailer\_Type.xlsx
- Retailers.xlsx > GO\_Retailers.xlsx
- Returned\_items.xlsx > GO\_Returned\_Items.xlsx
- Role.csv > ED\_Role.csv
- Sales.xlsx > GO\_Sales.xlsx
- sales\_by\_model.xlsx > AU\_Sales\_By\_Model.xlsx
- Sales\_rep.xlsx > GO\_Sales\_Rep.xlsx
- Sales\_Staff.xlsx > GO\_Sales\_Staff.xlsx

- Sample\_Extensions\_Data.xls > GO\_Sample\_Extensions\_Data.xlsx
- SampleFile\_GOSales.xls > GO\_Sample\_File\_Sales.xlsx
- Schools.csv > ED\_Schools.csv
- sentiment.csv > AU\_Sentiment.csv
- Shift.csv > IM\_Shift.csv
- Staff.csv > ED\_Staff.csv
- Student\_absenses.csv > ED\_Student\_Absenses.csv
- Students.csv > ED\_Students.csv
- Technology\_supply\_score.csv > ED\_Technology\_Supply\_Score.csv
- Technology\_type.csv > ED\_Technology\_Type.csv
- Time.xlsx > GO\_Time.xlsx
- Time\_close\_date.xlsx > GO\_Time\_Close\_Date.xlsx
- Time\_shipped\_date.xlsx > GO\_Time\_Shipped\_Date.xlsx

### Removed items

The folder named *Team content > The Weather Company, an IBM Business* and the data server connection named *Weather Company* are removed from the 11.2.3 release. The folder contained the following objects:

- \_How to use these samples
- Boston 311 calls data module
- Boston 311 plus weather data module
- Boston\_311\_calls.xlsx
- Historical weather report
- The Weather Company data module

The following dashboard is removed:

- Storm events

The following report is removed:

- Storm events 2015

The following Data Modules are removed:

- Boston 311 requests
- Customer loyalty program data module
- Hourly sales and weather data module
- NYPD motor vehicle collisions
- Storm events 2015
- Weather analytics

The following uploaded files are removed:

- Boston\_311\_requests.xlsx
- CustomnerChurn.xlsx
- CustomerClaimAnalysis.xlsx
- CustomerLoyaltyProgram.xlsx
- April19\_report.xlsx
- NYPD\_Motor\_Vehicle\_Collisions\_2015-2017.xlsx
- Storm\_events\_2015\_data.xlsx

- Weather\_analytics.xlsx
- American\_time\_use.xlsx

For more information, see [Base Samples for Cognos Analytics](https://community.ibm.com/community/user/businessanalytics/blogs/steven-macko/2018/09/12/base-samples-for-ibm-cognos-analytics) (https://community.ibm.com/community/user/businessanalytics/blogs/steven-macko/2018/09/12/base-samples-for-ibm-cognos-analytics).

## Google Bar Chart Custom Visualization

The method of using the Google Charts API has changed.

You can find full details of these changes here: [https://github.com/IBM/ca\\_customvis/wiki/Known-Issues](https://github.com/IBM/ca_customvis/wiki/Known-Issues).

For more information about the Google bar chart custom visualization code sample on the IBM Accelerator Catalog, see [https://accelerator.ca.analytics.ibm.com/bi/?perspective=authoring&pathRef=.public\\_folders%2FIBM%2BAccelerator%2BCatalog%2FContent%2FCT00026&id=iD6A01E36C5BF49929AB8E74B81C5A102&objRef=iD6A01E36C5BF49929AB8E74B81C5A102&action=run&format=HTML&cmPropStr=%27B%22id%22%3A%22iD6A01E36C5BF49929AB8E74B81C5A102%22%2C%22type%22%3A%22reportView%22%2C%22defaultName%22%3A%22CCT00026%22%2C%22permissions%22%3A%5B%22execute%22%2C%22read%22%2C%22traverse%22%5D%27D](https://accelerator.ca.analytics.ibm.com/bi/?perspective=authoring&pathRef=.public_folders%2FIBM%2BAccelerator%2BCatalog%2FContent%2FCT00026&id=iD6A01E36C5BF49929AB8E74B81C5A102&objRef=iD6A01E36C5BF49929AB8E74B81C5A102&action=run&format=HTML&cmPropStr=%27B%22id%22%3A%22iD6A01E36C5BF49929AB8E74B81C5A102%22%2C%22type%22%3A%22reportView%22%2C%22defaultName%22%3A%22CCT00026%22%2C%22permissions%22%3A%5B%22execute%22%2C%22read%22%2C%22traverse%22%5D%27D)

## Release 11.2.2 - March 2022

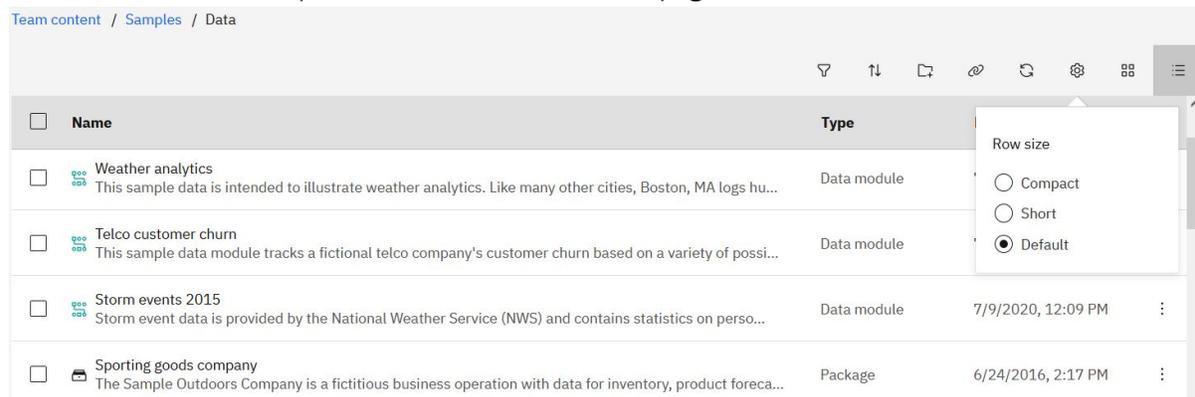
This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.2.

### Getting started

Learn about enhancements to the user interface, training materials, and features that affect multiple IBM Cognos Analytics with Watson components.

### Descriptions in the content page list view

You can now view descriptions of items in the **Content** page **List view** when the row size is set to **Default**.



The descriptions are not available when the row size is set to **Compact** or **Short**.

For more information, see "Content view" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

### Assistant

Ask questions, in natural language, to find, explore, and gain quick insights into your data.

## Assistant filtering with time entities

The Assistant now understands temporal expressions. You can ask the Assistant to filter based on time entities, such as year, month, season, date, time, and even holidays, to create more compelling visualizations.

Previously, any reference to time, such as a month or year, required the corresponding column to be present in the data set.

With time entity filters, you can add more focus and granularity to your visualizations. Here are a few examples of how you can filter with time entities:

- Show sales this Thursday
- Show sales between last Monday and last Wednesday
- Show me sales for camping equipment from June 1-5
- What is the total income between Halloween and Christmas
- Show sales for 2021
- Show October 2021 sales by product

**Note:** Filtering with time entities is currently only supported in English.

To filter based on time entities, the selected data set must have a **Timestamp** or **Date/Time** column.

For more information, see [Assistant filtering](#).

## Dashboards

Use IBM Cognos Analytics with Watson dashboards to discover key insights about your data and monitor events or activities at a glance.

### Select multiple objects by using mouse drag

You can now select multiple widgets and visualizations by using your mouse cursor. Previously, you had to select each object separately.

Click anywhere on the canvas and drag your mouse cursor around the objects that you want to select. All items within the lasso you created are now selected. With this improvement, you can easily group or move multiple items at the same time.

For more information, see the *Selecting multiple objects* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

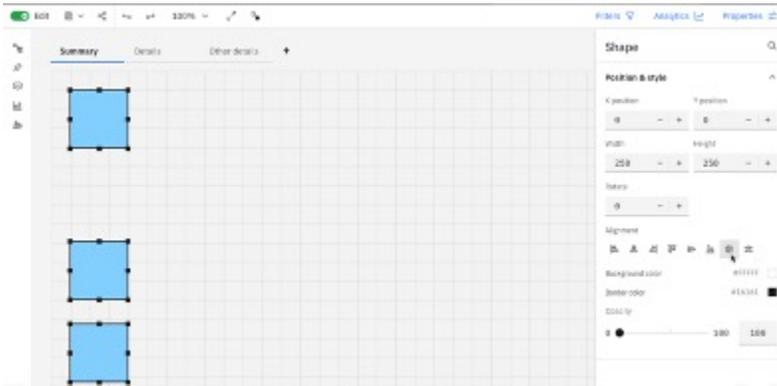
### Vertical and horizontal distribution for objects

You can specify a vertical or horizontal distribution for objects on your dashboard to determine where they appear.

Vertical distribution follows the height of the page and horizontal distribution follows the width of the page.

Set vertical or horizontal alignment by selecting at least three objects, and then from the toolbar, click the

**Align** icon . Optionally, after you select three or more objects, you can set the vertical or horizontal alignment in the **Visualization properties** under **Layout**.



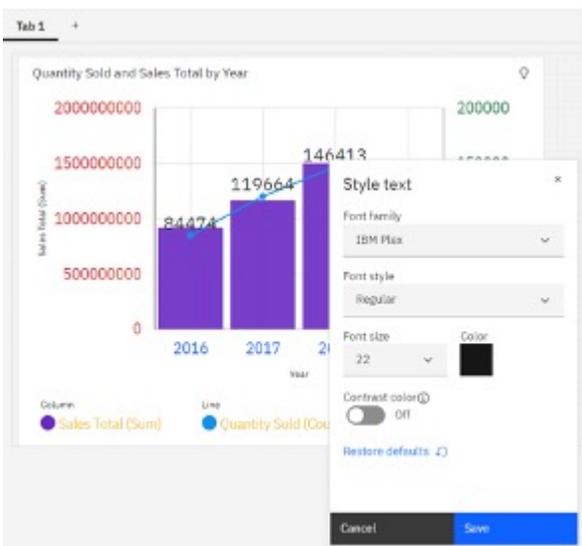
**Tip:**

Drag the mouse cursor to select multiple objects. For more information, see the *Selecting multiple objects* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

**Change the style on axis and legend titles**

In a visualization on your dashboard, right-click an axis or a legend title to get more options for changing the title styles.

Right-click an axis or a legend title and select **Style text** from the list. You can edit the title and the title style. And, you can apply your styling to all the axes on the visualization.

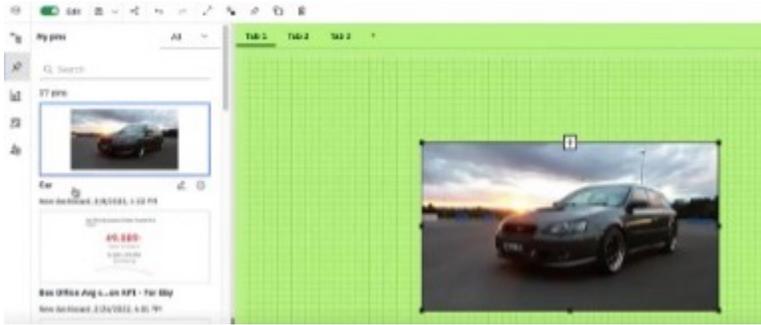


For more information, see the *Formatting* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

**Improved pins**

In your collection of pins, thumbnail images make it easier and faster to manage the pins.

Also, to help you identify pins, you can rename them from the **My pins** pane.



## A different background color for each tab

To suit your preference, you now have more control over the look of tabbed dashboards. In the dashboard properties, you can set a different background color for each of your tabs.

For more information, see the *Changing colors* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

## Enhanced widget properties

In a widget on your dashboard, you have more options for changing the properties.

There is now a property to style any visualization or widget on your dashboard for rounded corners.

The following enhancements were made to the text widget properties:

- The opacity property only affects the text widget background and not the text.
- You can adjust the inner margins.
- You can choose a vertical alignment.
- You can set indentations.
- You can specify the line height.

## Stories

Stories can help you inform and engage your audience. You can use stories in IBM Cognos Analytics with Watson to create scenes that visualize your data and to tell a narrative.

## A different background color for each scene

To suit your preference, you now have more control over the look of scenes in a story. In the story properties, you can set a different background color for each of your scenes.

For more information, see the *Changing colors* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

## Explorations

Uncover hidden relationships and identify patterns that turn your data into insights with IBM Cognos Analytics with Watson explorations.

## Improved visualization details

Visualization details for **Explorations** have been enhanced and improved for readability. These natural language insights are more concise and easier to understand, allowing you to quickly review information from the data analysis.

Here is a look at how the details have changed:

Previous details	New details
The sum of Revenue for all values of Year is 4,686,775,769.	Over all years, the sum of Revenue is nearly 4.7 billion.
The value of Quantity is unusually high when Retailer country is United States.	Quantity is unusually high when Retailer country is United States
The summed values of Quantity range from a minimum of 1,301,136 (when Retailer country is Denmark) to a maximum of 15,722,077 (when Retailer country is United States).	Quantity ranges from over 1.3 million, when Retailer country is Denmark, to nearly 16 million, when Retailer country is United States.
For Revenue, Web is the most important category of Order method type with a total value of 3,712,235,908 (79.2 % of the total).	For Revenue, the most significant value of Order method type is Web, whose respective Revenue values add up to over 3.7 billion, or 79.2 % of the total.

**Note:** This improvement is currently only supported in English. Users in other languages continue to see visualization details as before.

You can see visualization details under the **Details** tab in **Explorations**. For more information, see [Viewing visualization details](#).

## Notebook

IBM Cognos Analytics for Jupyter Notebook integrates Jupyter notebooks into IBM Cognos Analytics with Watson. You can create and upload notebooks into Cognos Analytics, and work with Cognos Analytics data in a notebook using Python scripts. You can also embed notebook output in a dashboard, story, or report.

### Changed location of Watson Studio logs

The Watson Studio logs from the **dataplatfom-service** node service are moved from a separate directory to the centralized `cognosserver.log` file.

The logs are now written to the `install_location/logs/cognosserver.log` file.

In previous versions of IBM Cognos Analytics with Watson, the logs for the **dataplatfom-service** node service were in the `install_location/node-services/ca-dataplatform-service/logs` directory.

## Reporting

IBM Cognos Analytics with Watson reporting is a web-based report authoring tool that professional report authors and developers use to build sophisticated, multiple-page, multiple-query reports against multiple databases.

### New custom filter option in reports

When you create a custom filter in a report by manually entering values, you have now the option to ignore empty values.

When you use the **Manually input items** option to enter values when creating a custom filter, you can use the **Ignore empty items** option to either include or remove the empty values that were copied from a delimited text file. By default, the empty values are removed.

## Filter condition - Product type ✕

Manually input items

Ignore empty items

Use Comma as keyword delimiter ▼

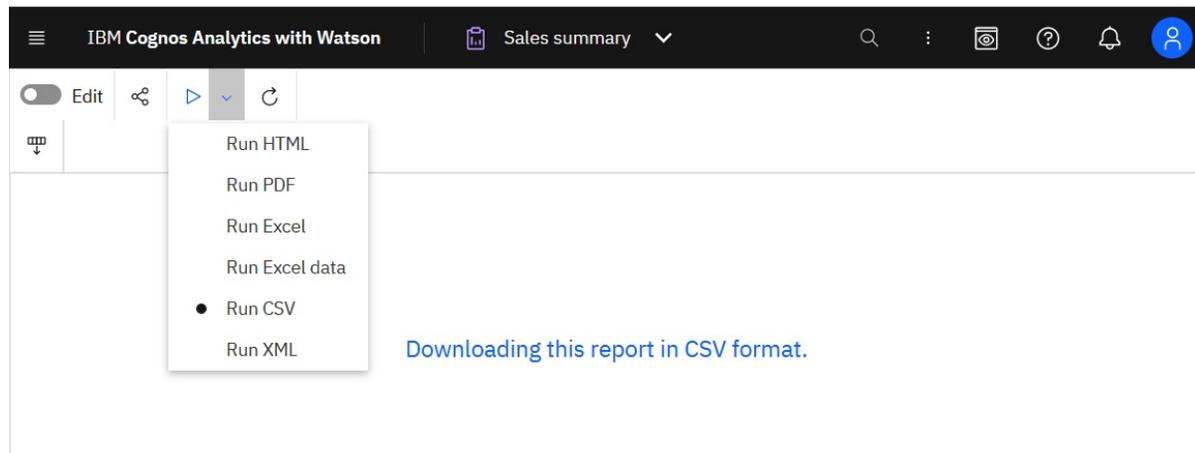
Paste items here separated by the delimiter

For more information, see "Creating a filter based on one data item" in the *IBM Cognos Analytics with Watson Reporting* guide.

## Consistent experience with downloadable report formats

When you run reports that generate downloadable formats (Excel, CSV, XML), the user experience is consistent in both classic viewer and interactive viewer.

The download viewer no longer closes automatically, and the toolbar options are consistent in both viewers. When you leave the viewer open while viewing the output, you have access to all controls.

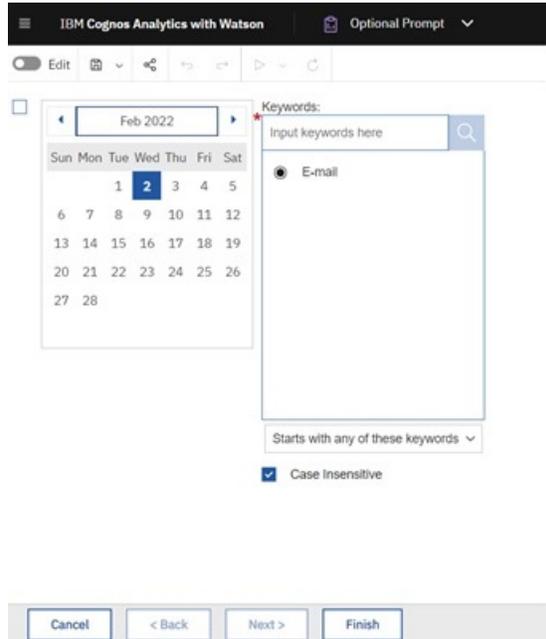


When using Google Chrome, you can set automatic or manual report downloads.

For more information, see "Running a report" in the *IBM Cognos Analytics with Watson Reporting* guide.

## Maintaining the state of optional prompt controls

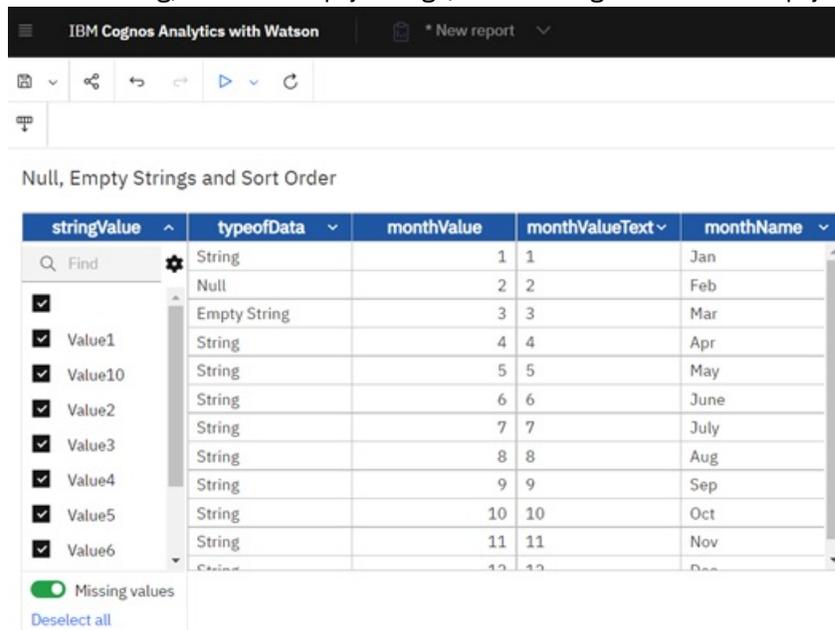
In both classic viewer and interactive viewer, there is now a consistent approach for handling and maintaining the state of optional prompt controls after a user is reprompted or runs the report again.



For more information, see "Running a report" in the *IBM Cognos Analytics with Watson Reporting* guide.

## Data store improvements

The client data store now supports the numeric type for categories, correct sorting of numeric categories when filtering, null and empty strings, and filtering on null and empty strings.



## Mobile

Use the IBM Cognos Analytics for Mobile app to quickly see how your business and organization is performing.

## Cognos Analytics for Mobile supports all Cognos Analytics authentication providers

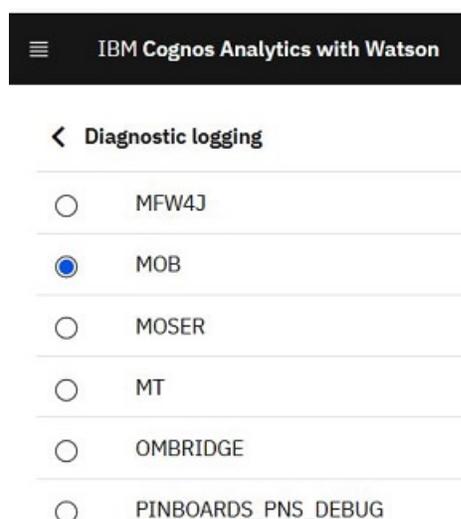
IBM Cognos Analytics for Mobile now supports all of the authentication providers that are supported by IBM Cognos Analytics with Watson.

For more information, see "Configuring authentication providers" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Changes to logging in Cognos Analytics Mobile Reports

All diagnostic logs for Cognos Analytics Mobile Reports are now written to the `install_location\logs\cognosserver.log` file.

To generate the Cognos Analytics Mobile Reports logs in the `cognosserver.log` file, select the **MOB** topic in **Manage > Configuration > Diagnostic logging**, as shown in the following image:



The `install_location\configuration\mob.log4j.xml` and `install_location\logs\mob.log4j.xml.DEBUG.sample` files are no longer used. However, if you want to implement the logging capabilities that were provided by these files, use the `mobile_service.json` and `mobile_service-DEBUG.json` specs that are included in the "Enabling diagnostic logging in Cognos Mobile Reports" topic in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

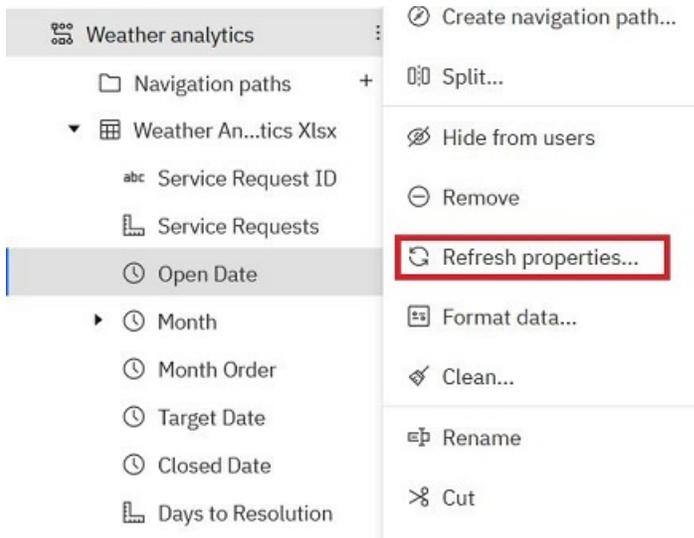
## Modeling

Learn about new features and changes to the IBM Cognos Analytics with Watson modeling components, primarily data modules.

### Faster metadata updates

Some column or calculation property values are derived from the property values of another column or calculation that they depend on. After a column or calculation property changes, you can batch-update the property values of its dependent columns or calculations.

To batch-update multiple properties, the option **Refresh properties** is added to the context menu for data modules, tables, columns, calculations, and folders.



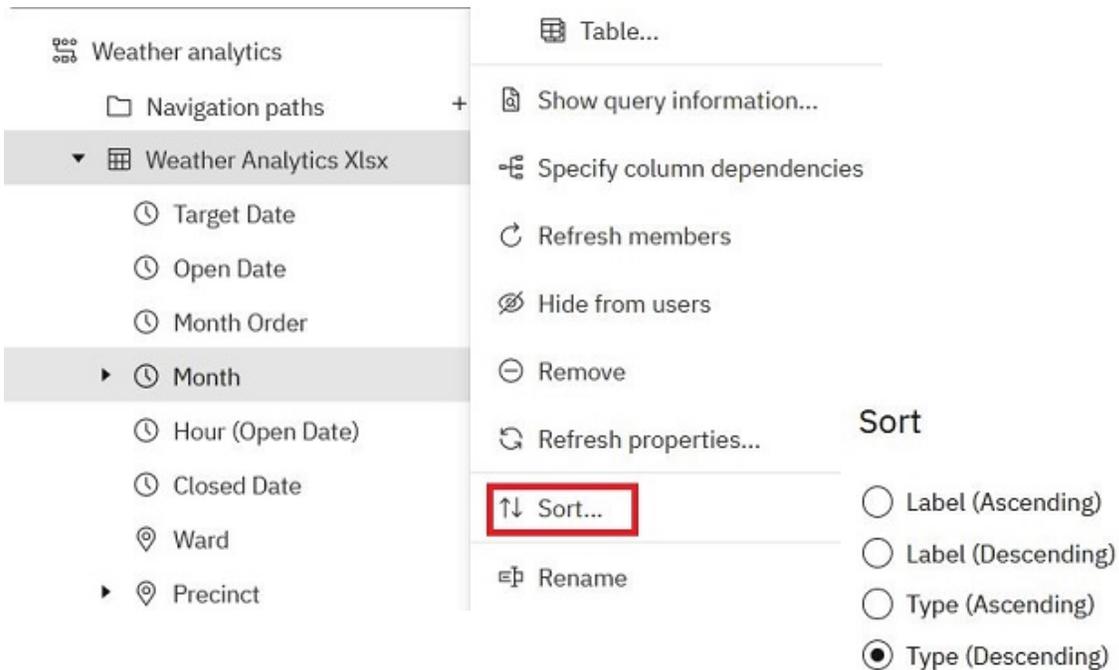
The following column or calculation properties can be affected by this update: **Technical data type, Data type, Aggregate, and Usage.**

For more information, see the "Refreshing properties" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Sorting in the data tree

You can sort items in the data module tree by label or by data type in ascending or descending order.

The **Sort** option is available from the data module, table, and folder context menus.

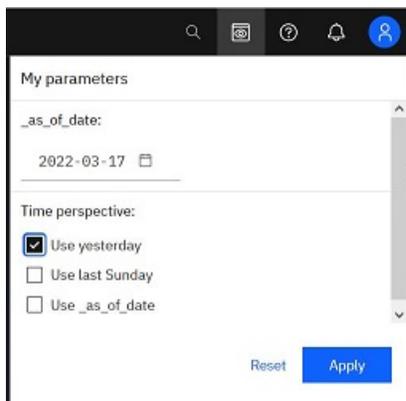


For more information, see the "Modeling user interface" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Dynamic as\_of\_date parameter

You can specify a dynamic date for the **as\_of\_date** parameter.

With this enhancement, the relative date analysis can be based on time periods relative to the **as\_of\_date** date, such as "yesterday" or "last Sunday".



To implement this feature, you need the revised Gregorian Calendar data module that includes the optional specification of the Time Perspective global parameter. You can upload this calendar from [Accelerator Catalog](#).

For more information, see the "Relative date analysis" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Administration

Manage the security, access, and functionality of IBM Cognos Analytics with Watson components.

### Improved algorithm for handling MUN changes in Planning Analytics data sources

The IBM Cognos Analytics with Watson query service now uses an enhanced recovery algorithm to handle an invalid (stale) member unique name (MUN) in reports and dashboards that are based on Planning Analytics data sources.

The MUN in a report or dashboard can become invalid when an element is moved within the data source hierarchy. These referential changes in the data source result in the "member not found" or "missing member" errors when the report or dashboard runs.

To avoid this type of errors, an improved algorithm for handling invalid MUNs is implemented for the Cognos Analytics query service. The algorithm works in the following way:

- If a member whose MUN contains the parent path information (`[dimension].[hierarchy].[parent1^parent2^element]`) cannot be found, the query service tries to find another member whose MUN contains only the element name (`[dimension].[hierarchy].[element]`). If such a member exists in the data source, it is used instead of the invalid member when the query runs.
- If a member with a MUN that contains the parent path information (`[dimension].[hierarchy].[parent1^parent2^element]`) can be found in a different location in the data source, the invalid MUN in the query is replaced with the MUN of the member from the new location in the hierarchy.
- If none of the two scenarios applies, the Cognos Analytics query service follows the standard algorithm for handling missing members.

**Note:** The path information in the MUN is indicated by the presence of the caret (^) character.

## New driver class for Sybase ASE and ASE IQ

The default driver class name used for new SAP Sybase ASE or ASE IQ connections has changed to `com.sybase.jdbc42.jdbc`.

You can change existing connections by editing the driver class name property from `com.sybase.jdbc4.jdbc` to `com.sybase.jdbc42.jdbc`.

## More data server connections that support JWT authentication

Cognos Analytics 11.2.2 provides an expanded list of data servers to which you can create connections using JSON Web Token (JWT) authentication.

For JWT authentication, data server connections use the associated JDBC driver to pass a JWT when authenticating to the database. In release 11.2.2, support for JWT authentication is new for these connection types:

- **Azure SQL and Synapse**

Use the Microsoft SQL Server JDBC driver. The connection automatically passes the token via the SQL Server driver `accessToken` property.

**Note:** When you use Azure Active Directory and Azure SQL or Azure Synapse, you must include additional scope details by specifying the following name-value pair: `ibmcognos.oidc.scope=https://database.windows.net/.default`. For more information, see "ibmcognos.oidc.scope" in the *Cognos Analytics Managing Guide*.

- **Denodo**

Use the Denodo JDBC driver. A connection must include the Denodo name-value pair `useOAuth2=true`.

- **Exasol**

Use the Exasol JDBC driver. A connection must include the Exasol name-value pair `authmethod=accessToken`. Exasol JDBC driver version 7.1.2 or higher is required.

- **Google Bigquery**

Use the Bigquery JDBC driver. A connection must include the Bigquery name value pair `OAuthType=2`.

- **Progress DataDirect Autonomous REST**

Use the Autonomous REST JDBC driver. A connection must include the Autonomous REST name-value pair `AuthenticationMethod=OAuth2`.

- **Teradata**

Use the Teradata JDBC driver. The URL must include the Teradata `LOGMECH=JWT` name-value pair. Teradata JDBC driver version 17.10.00.14 or higher is required.

For a complete list of data server types for which Cognos Analytics supports authentication via JSON Web Tokens, see "Connections that support JWT authentication" in the *Cognos Analytics Managing Guide*.

## Connections to Db2, BigSQL or Data Virtualization using JWT must specify the securityMechanism name-value pair

In Cognos Analytics 11.2.2, data server connections that support JSON Web Token (JWT) authentication must now include a specific value for the JCC `securityMechanism` property. This value must be included in the connection definition.

IBM server products that support JWT require different values in the IBM JCC `securityMechanism` name-value pair. Starting with this release, the `securityMechanism` property value must be explicitly included in the connection definition.

For existing connections to IBM Db2, BigSQL, and Data Virtualization that use a JWT, the connections must have the set of name-value pairs required by the IBM data product, which will include the securityMechnanism name-value pair.

For more information, see "Connections that support JWT authentication" in the *Cognos Analytics Managing Guide*.

## **CM.DISABLE\_REPORTSPEC\_INDEXING**

The advanced setting `CM.DISABLE_REPORTSPEC_INDEXING` default value is now set to `true`. In previous releases, it was set to `false`.

The `CM.DISABLE_REPORTSPEC_INDEXING` is an advanced setting for the Content Manager service. When set to `false`, `CM.DISABLE_REPORTSPEC_INDEXING` allows report specifications to be searched. However, this setting no longer provides much value. As a result, the default value is now `true`.

## **New connection to SingleStore defaults to the MariaDB driver class**

In Cognos Analytics 11.2.2, new connections to SingleStore will default to the MariaDB driver class.

To change existing connections that use the MySQL Connector/J JDBC driver, update the URL to the format supported by MariaDB and alter the driver class name to refer to the MariaDB driver class name.

For more information, see "SingleStore" in the *Cognos Analytics Managing Guide*.

## **Specify supported Cognos Analytics versions in extensions**

Within the `spec.json` file of an extension, you can specify the versions of Cognos Analytics that it supports. After uploading the extension, the next time any System or Tenant Administrator logs in or refreshes the browser, they will be notified by a [message in the alert banner](#) that some or all features of the extension may be disabled.

For more information, see "compatibleProductVersion" in the *Cognos Analytics Managing Guide*.

## **SetPolicyPackage advanced setting**

A new advanced setting, `SetPolicyPackage`, is available. An Administrator can configure this setting to change the permissions of a package that was published from Framework Manager.

Previously, to make the same changes, you needed to edit the file `installation_directory\configuration\fm.ini`. However, this file may not be accessible by the Administrator.

The value of `SetPolicyPackage` can be set as follows:

- When set to `TRUE` (default value), the package will retain the permissions that it was granted in Framework Manager.
- When set to `FALSE`, the package will inherit the permissions of the folder to which it was published.

For more information, see "Parent and Child Permissions" in the *Cognos Analytics Managing Guide*.

## **Installation and configuration**

Learn about changes to the IBM Cognos Analytics with Watson installation and configuration.

## Changed dispatcher URI for external applications for Cognos Analytics client applications

The default value of the property **Dispatcher URI for external applications** (Cognos Configuration) for Cognos Framework Manager, Cognos Cube Designer, Cognos Transformer, Cognos for Microsoft Office, and Planning Analytics for Excel is changed.

The value is now `http://localhost:port/bi/api/soap`. For example, `http://my_server:9300/bi/api/soap`.

In previous versions of IBM Cognos Analytics with Watson, the default value for this property was `http://localhost:port/bi/v1/disp`. For example, `http://my_server:9300/bi/v1/disp`.

When you upgrade the client applications, you need to manually reset the URI for this property because Cognos Analytics preserves the configuration values from previous installations. For more information, see <https://www.ibm.com/support/pages/node/6244658>.

For more information about setting this property for Framework Manager, see "Configuring IBM Cognos Framework Manager" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*. Configure Transformer and Cube Designer in the same way.

## Temporary files are encrypted by default

The default value of the property **Encrypt temporary files** (Cognos Configuration) under the **Environment** folder is changed.

The value is now **True**.

In previous versions of IBM Cognos Analytics with Watson, the default value for this property was **False**.

For more information about setting this property, see "Encrypt temporary file properties" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Installer no longer creates a vers folder

The IBM Cognos Analytics with Watson installer no longer creates a `vers` folder in the installation directory.

Previous versions of the IBM Cognos Analytics with Watson installer created the `installation_location\vers` directory.

## Release 11.2.1 - September 2021

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This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.1.

### Getting started

Learn about enhancements to the user interface, training materials, and features that affect multiple IBM Cognos Analytics with Watson components.

### Impact of migration to Visual Studio 2019 on floating-point operations

Visual Studio is used to build and compile C and C++ components in IBM Cognos Analytics with Watson. As a result of upgrading Visual Studio to version 2019, you might notice some discrepancies between floating-point operation results in Cognos Analytics 11.2.1 and Cognos Analytics 11.2.0 and previous versions.

In general, floating-point operations in Visual Studio 2019 are more accurate.

For more information, see [Microsoft documentation](https://docs.microsoft.com/en-us/cpp/porting/floating-point-migration-issues?view=msvc-160) (<https://docs.microsoft.com/en-us/cpp/porting/floating-point-migration-issues?view=msvc-160>).

## Search enhancements

In addition to the existing filter options, you can now filter on **Report Views**, **Jobs**, and **Shortcuts** when you search for content.

You can also specify how many search results appear on each page by selecting the **50**, **100**, or **500** option, or by entering a different number.

Search bar: [Magnifying glass icon] [x]

[Reset filters](#)

**Type**

- Folders
- Data
- Packages
- Dashboards
- Explorations
- Notebooks
- Stories
- Reports
- Report Views
- Jobs
- Shortcuts
- Other

**Modified**

- All
- Today
- Yesterday
- Past week
- Past month

**Result limit**

50 [v]

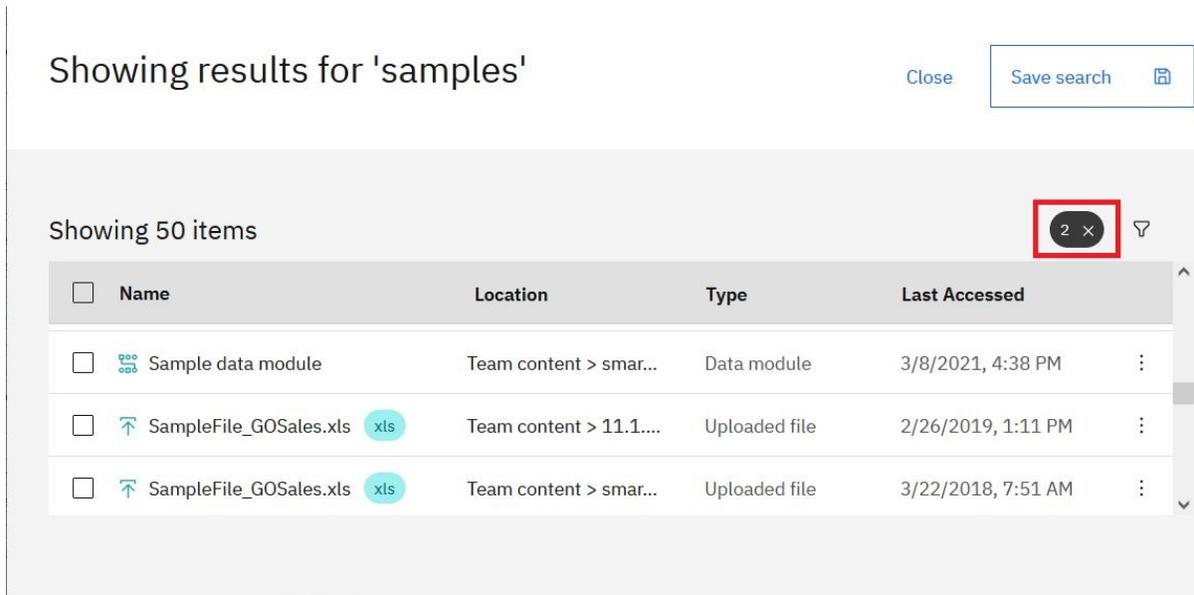
For more information, see "Search" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Saved search includes filters

Saved searches now include filters that were applied to the search results.

To save a filter with your search, perform the search first, and then click the filter icon  in the actions toolbar. Select one or more checkboxes, or type some keywords, and then click the **Save search** button.

An oval button is added to the actions toolbar next to the filter icon. The number inside the button specifies the number of filters that are applied to the search results. This button is saved with the search. Hover your cursor over the number in the button to see the filters. Click the x character inside the button to apply different filters.

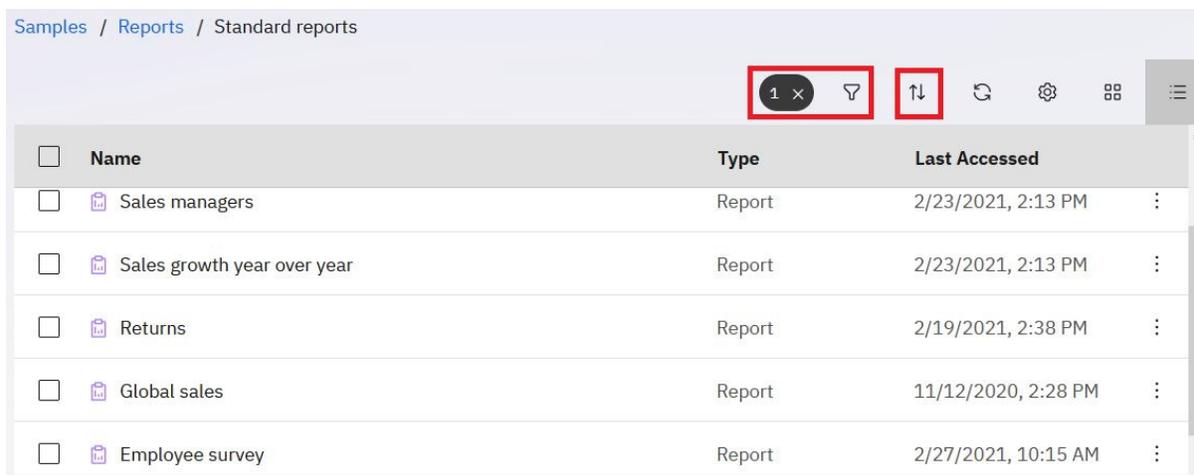


For more information, see the "Search" topic in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Sort order and filters persist across sessions and tabs

The sort order and filters that you apply in the content page persist across browser sessions and tabs.

When you apply a filter  or change the sort order  on one of the tabs in the **Content** page, these settings are retained when you close and reopen your browser session, or move between the **Team content**, **My content**, **Samples**, or your custom tabs.



For more information, see "Content view" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## New ways to edit names and descriptions

The item's name and description can now be changed from the item context menu or from the toolbar that appears when the item is selected.

In previous product versions, names and descriptions could be changed from the item's properties or from the **Details** pane.

In the content page, click the item context menu , and select **Edit name and description**. Or select the item's checkbox, and in the on-demand toolbar, click **More** and select **Edit name and description**.

The following dialog box is displayed where you can edit the name and description.

Dialog box titled "Edit name and description" with a close button (X) in the top right corner.

Name: Product line comparison

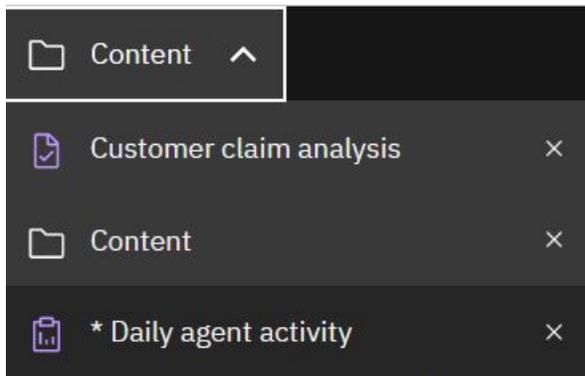
Description: An Active Report sample that illustrates collapsible filters, side-by-side overview comparisons, drill to details, and direct comparisons to a total with swiping.

Buttons: Cancel, Save

For more information, see "Content view" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Content page added to the view switcher

The **Content** page now appears in the view switcher, and can be reopened and closed from there.



For more information, see "View switcher" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Locale-sensitive CSV file processing

Processing of uploaded CSV files is now locale-sensitive.

In previous releases, the CSV files were always processed in the en\_US locale.

Column data types in uploaded files might be parsed differently depending on the locale. For example, some locales treat a comma (,) as a decimal separator. When data is parsed in such locales, columns might be assigned the float (or double) data type. When parsed in different locales, the same columns might be assigned the text or integer data type.

This change applies also to the **Append file** and **Replace file** scenarios. In both scenarios, the file is processed in the original locale in which it was uploaded. If a previously uploaded file doesn't include the locale information, it is processed in the en\_US locale.

For more information, see "Uploaded files" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Support for merged cells in uploaded Excel files

The values in the merged cells are now properly rendered.

In previous releases, only the upper-left cell value was rendered correctly, and Null was rendered in the remaining cells.

The following Excel file example contains merged cells:

Car parts	Part name
Brake parts	Brake pads
	Brake fluid
	Brake caliper
	Brake rotor
Steering parts	Power steering pump
	Power steering hose
	Tie rod end
	Steering column
Electrical parts	Turn signal switch
	Body control module
	Cruise control switch
	Speedometer cable

When this file is uploaded into Cognos Analytics 11.2.1, the values in the merged cells are rendered in the following way:

Car parts	Part name
Brake parts	Brake pads
Brake parts	Brake fluid
Brake parts	Brake caliper
Brake parts	Brake rotor
Steering parts	Power steering pump
Steering parts	Power steering hose
Steering parts	Tie rod end
Steering parts	Steering column
Electrical parts	Turn signal switch
Electrical parts	Body control module
Electrical parts	Cruise control switch
Electrical parts	Speedometer cable

When this file is uploaded into Cognos Analytics 11.2.0 and earlier versions, the values in the merged cells are rendered in the following way:

Car parts	Part name
↑↓	↑↓
Brake parts	Brake pads
Null	Brake fluid
Null	Brake caliper
Null	Brake rotor
Steering parts	Power steering pump
Null	Power steering hose
Null	Tie rod end
Null	Steering column
Electrical parts	Turn signal switch
Null	Body control module
Null	Cruise control switch
Null	Speedometer cable

For more information, see "Uploaded files" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Assistant disambiguation

The conversational assistant now detects potentially ambiguous references and provides suggestions to clarify requests.

For instance, a user may ask `Tell me about profit`, where the term `profit` may appear in fields (columns) in different tables that use the same term.

The assistant will return the first occurrence, but will also suggest other references that may better align with the user's intent. Users can then select the suggestions, which provides them with better search results and data analysis.

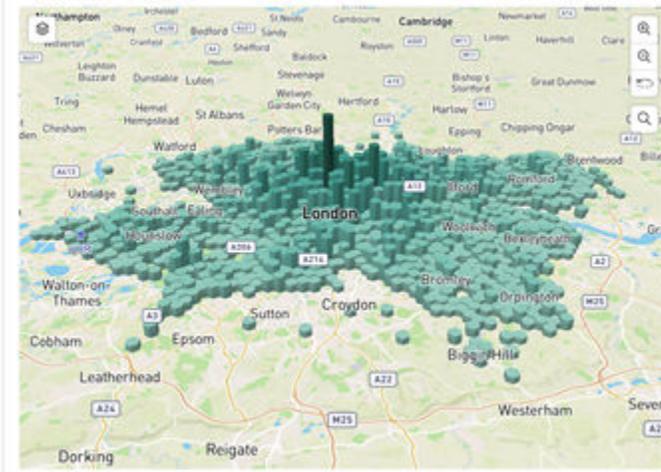
## Dashboards

Use IBM Cognos Analytics with Watson dashboards to discover key insights about your data and monitor events or activities at a glance.

### 3D hexbin maps

You can use a 3D hexbin grouping option in maps.

Display high density spatial point data in a hexbin map.



For more information, see the *Hexbin map layer in a map* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

## New visualization properties

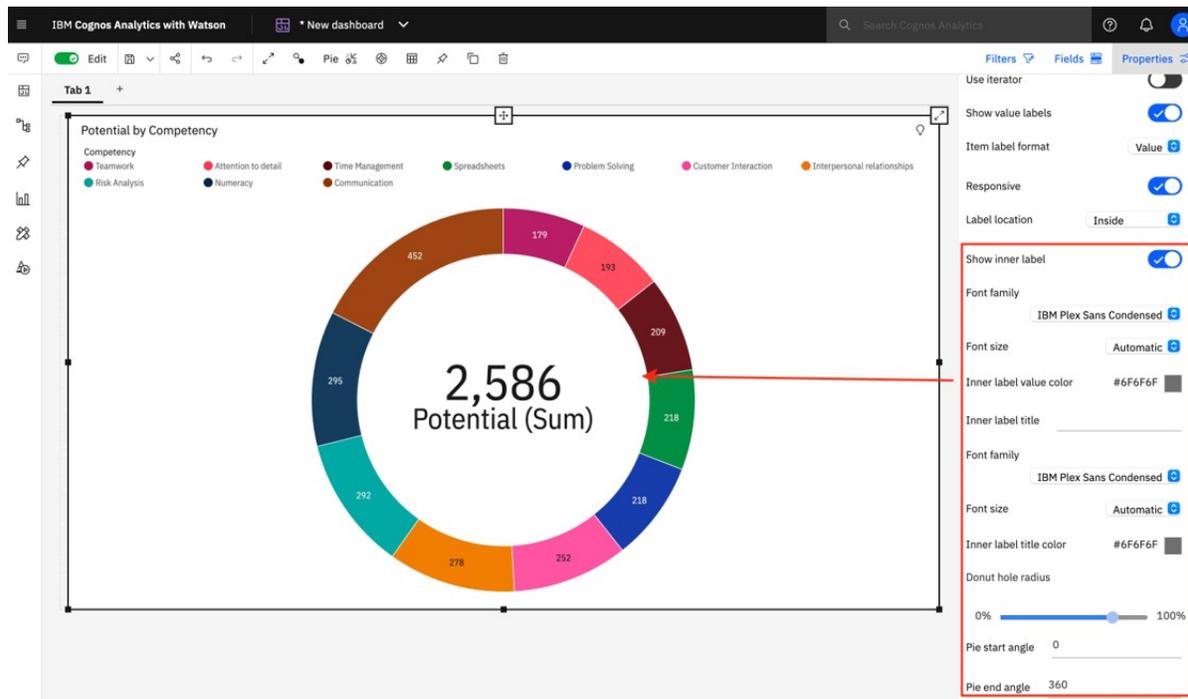
This release includes several new visualization properties.

- You can set or change the following color visualization elements:
  - Border color on a per-axis basis
  - Grid line color on a per-axis basis
  - Value label color
  - Repeat label color on a column
  - Repeat label color on a row
- The following new properties are also available:
  - **Element ID** of SVG schematics. If you are creating SVG schematics, you can view the SVG key string.
  - **Pagination control** of SVG schematics. This property is available on uploaded SVG custom schematics.
  - **Transpose** bullet visualizations. This new property allows you to switch between horizontal or vertical bullet charts.
  - **Customizable range** of bullets in bullet visualizations. These new properties allow you to customize the appearance to suit your preference or to align with your corporate branding.
  - **Default swatch symbol shape** for legend symbols. Choose a legend symbol from a list of options such as, circle, square, star, triangle, and so on.
  - **Use iterator** to set how repeating visualizations are displayed. This property changes the display so that the chart iterations for each value of the repeat category are shown one at a time, using the whole widget for each iteration. You can then swipe or click the visualization to view each iteration.

These properties are available on certain visualization types and only in relevant contexts. For example, you will not see the option to change a repeat column label color if there is no data on the repeat column.

## Donut visualization created from a pie

You can edit a pie visualization so that it appears as a donut that displays a total of the segments in the center.



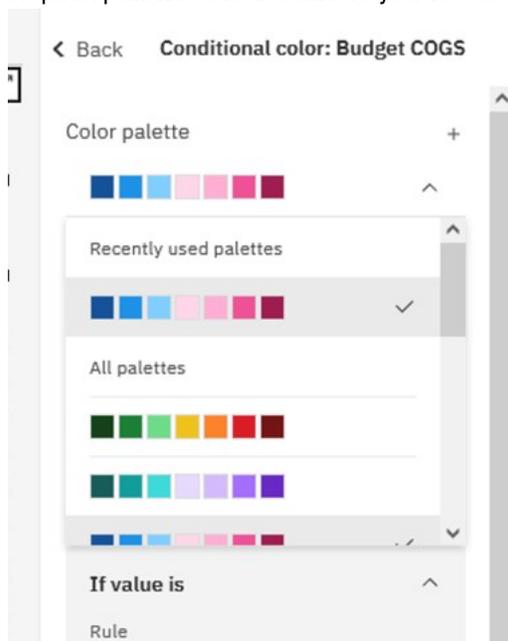
For more information, see the *Creating a donut visualization from a pie* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

## Conditional formatting enhancements

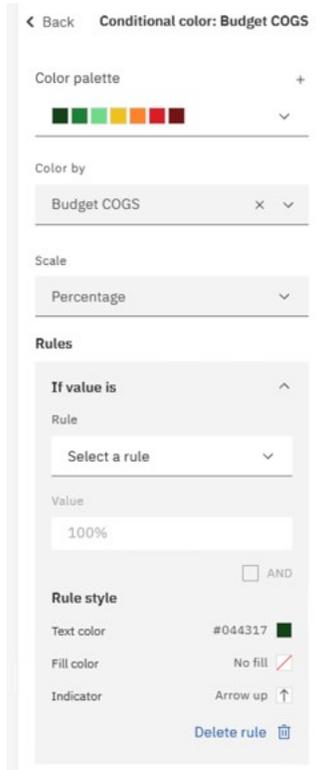
You can change the conditional color palettes on your crosstab, table, and KPI visualizations more quickly and easily.

Two new features help you with this:

- A quick palette selector allows you to choose between **Recently used palettes** and **All palettes**.



- An improved look and feel in the conditional formatting properties.



## Top/bottom calculations

In Cognos Analytics dashboards, you can create a top/bottom calculation that references a different fact table than the metadata items that are used in the visualization.

**Note:** Tables in dashboards provide only summary totals for data measures that are aggregated by TOTAL when the top or bottom filter is applied. If it is possible, use a crosstab visualization in these cases.

## Reporting

IBM Cognos Analytics with Watson reporting is a web-based report authoring tool that professional report authors and developers use to build sophisticated, multiple-page, multiple-query reports against multiple databases.

### Active Report Viewer

Active Report Viewer is a Windows application that is used to view and interact with IBM Cognos Analytics with Watson active reports that are saved in the .mht file format.

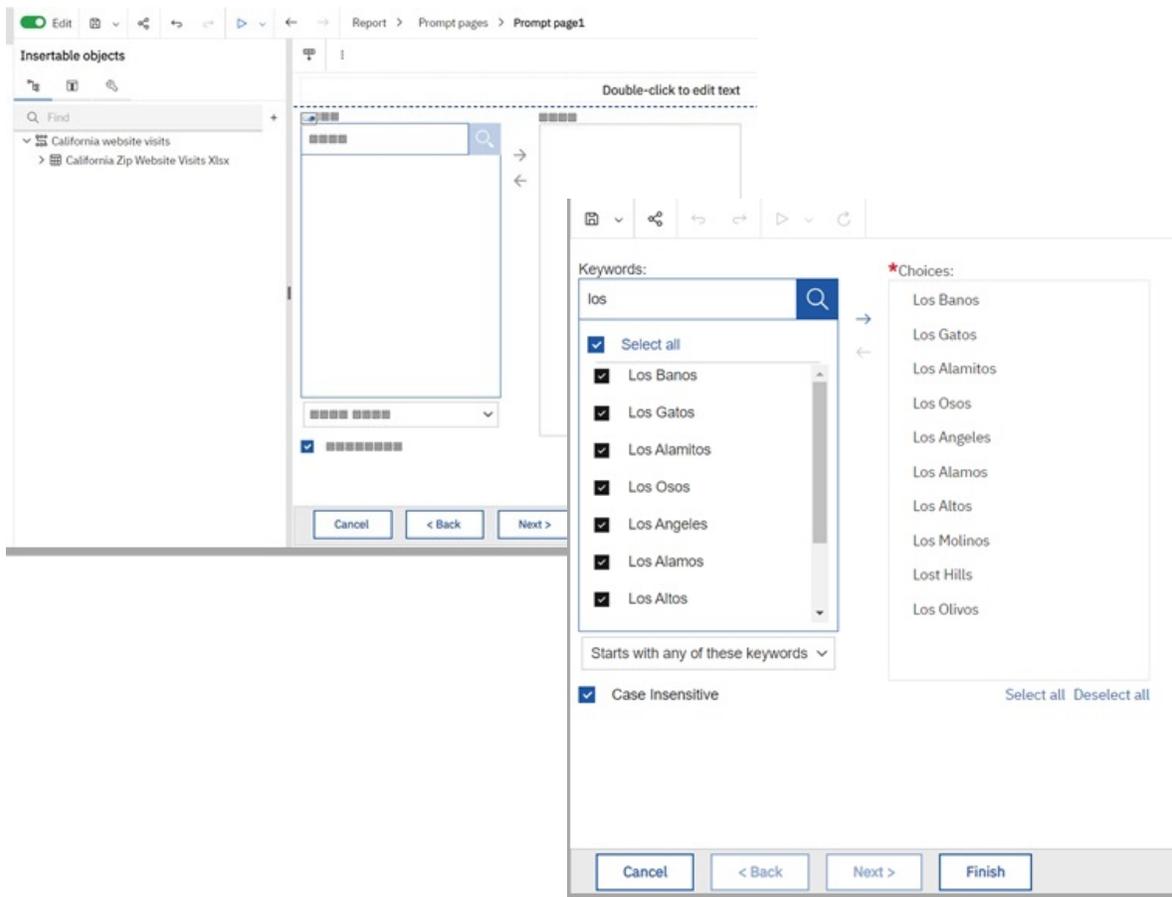
Active Report Viewer can be used to view active reports that are created with any version of Cognos Analytics - Reporting. Access to a Cognos Analytics server is not needed to use the application.

Active Report Viewer is available for download from [IBM Accelerator Catalog](#).

For more information, see the "Active Report Viewer" topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Select and search prompt is available for data modules

The **Select & search** prompt is now available when a data module is used as a report source.



For more information, see the "Build Your Own Prompt and Prompt Page" topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Copy values from HTML report output

You can copy values from list and crosstab report outputs in the interactive viewer and preview page.

In the report, click the cell value that you want to copy. Use **Ctrl+click** or **Shift+click** to select multiple values.

United Kingdom	London	Alice	Martin	Accounting Clerk	Dec 14, 2017 5:00:00 AM	AMartin@grtd123.com
United Kingdom	London	Andrew	Roberts	Accounting Clerk	Aug 20, 2017 5:00:00 AM	ARoberts@grtd123.com
United Kingdom	London	Angela	Hunter	Accountant 2	Sep 6, 2018 5:00:00 AM	AHunter@grtd123.com
Canada	Calgary	Barbara	Schwarz	Procurement Clerk	Dec 4, 2017 5:00:00 AM	BSchwarz@grtd123.com
Canada	Calgary	Barry	Kajja	System Analyst	Jul 17, 2018 5:00:00 AM	BKajja@grtd123.com
Germany	München	Björn	Winkler	Level 3 Sales Representative	Jul 13, 2017 5:00:00 AM	BWinkler@grtd123.com
Canada	Toronto	Carole	Claudel	Level 1 Sales Representative	Jan 2, 2017 5:00:00 AM	CClaudel@grtd123.com
United Kingdom	London	Christopher	Jennings	Financial Analyst	Mar 1, 2017 5:00:00 AM	CJennings@grtd123.com
United States	Los Angeles	Conrad	Brinkley	Warehouse Assistant Manager	Jun 25, 2017 5:00:00 AM	CBrinkley@grtd123.com
United Kingdom	London	Cyril	Sickling	Customer Service Representative	May 3, 2017 5:00:00 AM	CSickling@grtd123.com
United States	Boston	Dana	Miles	Accounting Clerk	Jul 22, 2017 5:00:00 AM	DMiles@grtd123.com

Then, click the copy icon  in the toolbar, and select **Copy raw value**.

Based on the above image, the following values are copied:

Björn

Winkler

BWinkler@grtd123.com

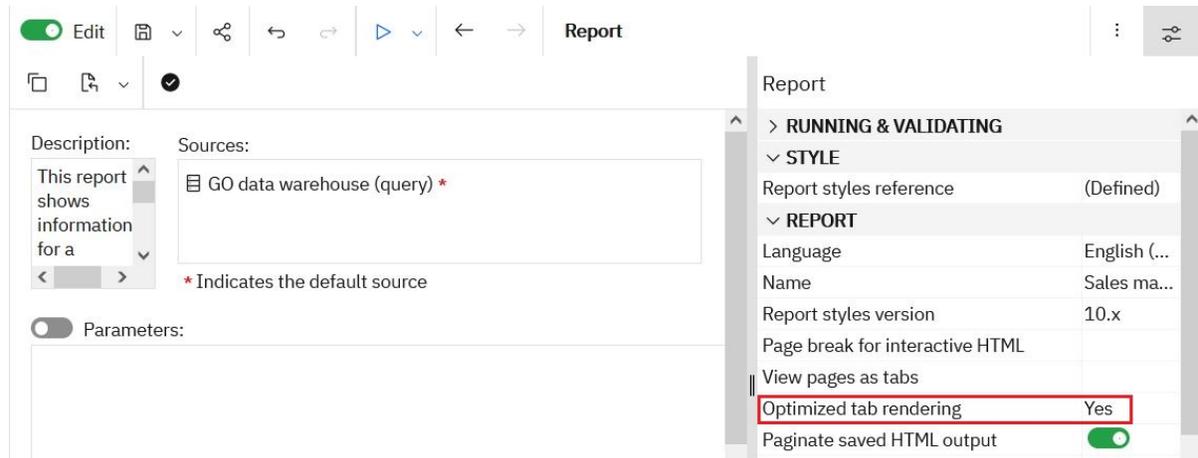
Numeric values are copied with formatting.

For more information, see "Viewing and interacting with reports" in *IBM Cognos Analytics with Watson Getting Started Guide*.

## Performance improvements for tabbed reports

The new report property **Optimized tab rendering** specifies how pages are rendered as tabs.

Option **Yes** enables optimized page rendering for better performance.



Optimized rendering is faster, but might not be suitable for reports with conditional pages or reports that rely on continuous page numbers across tabs. Also, pages with no content are still rendered as tabs when optimized rendering is enabled.

For more information, see "Producing tabbed reports" in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Donut visualization created from a Pie

You can edit a pie visualization so that it appears as a donut visualization.

The screenshot displays the IBM Cognos Analytics interface. On the left, a donut chart is shown with five segments representing different countries: Italy (blue, 2,225,977), France (green, 2,169,976), United States (yellow, 3,392,054), United Kingdom (purple, 2,794,401), and Canada (orange, 3,020,688). A legend titled 'Country' is visible above the chart. In the center, the 'Data' panel shows the visualization type as '<Country>' and the size as '<Invoice Amount (USD)>'. On the right, the 'Visualization' configuration panel is open, showing various settings. The 'Donut hole radius' property is highlighted with a red box and set to 0.4. Other properties include 'Pie border width' (1px), 'Pie border color', 'Sort order' (None), 'Segments color', and 'Annotations' (Show value labels is checked).

For more information, see the *Creating a Donut visualization from a Pie* topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## New visualization properties

This release includes several new visualization properties.

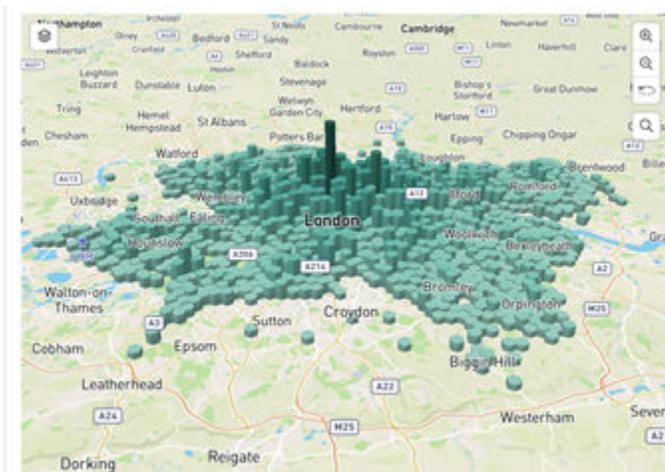
- You can set or change the following color visualization elements:
  - Border color on a per-axis basis
  - Grid line color on a per-axis basis
  - Value label color
  - Repeat label color on a column
  - Repeat label color on a row
- The following new properties are also available:
  - **Element ID** of SVG schematics. If you are creating SVG schematics, you can view the SVG key string.
  - **Pagination control** of SVG schematics. This property is available on uploaded SVG custom schematics.
  - **Transpose** bullet visualizations. This new property allows you to switch between horizontal or vertical bullet charts.
  - **Customizable range** of bullets in bullet visualizations. These new properties allow you to customize the appearance to suit your preference or to align with your corporate branding.
  - **Default swatch symbol shape** for legend symbols. Choose a legend symbol from a list of options such as, circle, square, star, triangle, and so on.
  - **Use iterator** to set how repeating visualizations are displayed. This property changes the display so that the chart iterations for each value of the repeat category are shown one at a time, using the whole widget for each iteration. You can then swipe or click the visualization to view each iteration.

These properties are available on certain visualization types and only in relevant contexts. For example, you will not see the option to change a repeat column label color if there is no data on the repeat column.

## 3D hexbin maps

You can use a 3D hexbin grouping option in maps.

Display high density spatial point data in a hexbin map.



## Mobile

Use the IBM Cognos Analytics for Mobile app to quickly see how your business and organization is performing.

### License entitlements of Cognos Analytics for Mobile users

You can now be licensed exclusively as a Cognos Analytics for Mobile user. For a relatively low cost, a new license entitles you to all of the Cognos Analytics for Mobile capabilities that you need.

The new license is available with the Cognos Analytics on Premises and Cognos Analytics on Cloud Hosted offerings. This license entitles a user to access Cognos Analytics content only through the Cognos Analytics Mobile app.

When covered under the **Analytics for Mobile User** license, you have full access to the features of the standard Cognos Analytics Mobile app, with a few restrictions. You can perform the following actions:

- Consume shared pin boards.
- Receive alerts.
- Use the Assistant in the app, with any available data sources.
- Create their own pin boards in the app.
- Browse **Team content** and open dashboards or explorations in the app.
- Scan a QR code from the desktop to authenticate into the app.

For more information, see [“New license tier for Cognos Analytics for Mobile users”](#) on page 95.

## Modeling

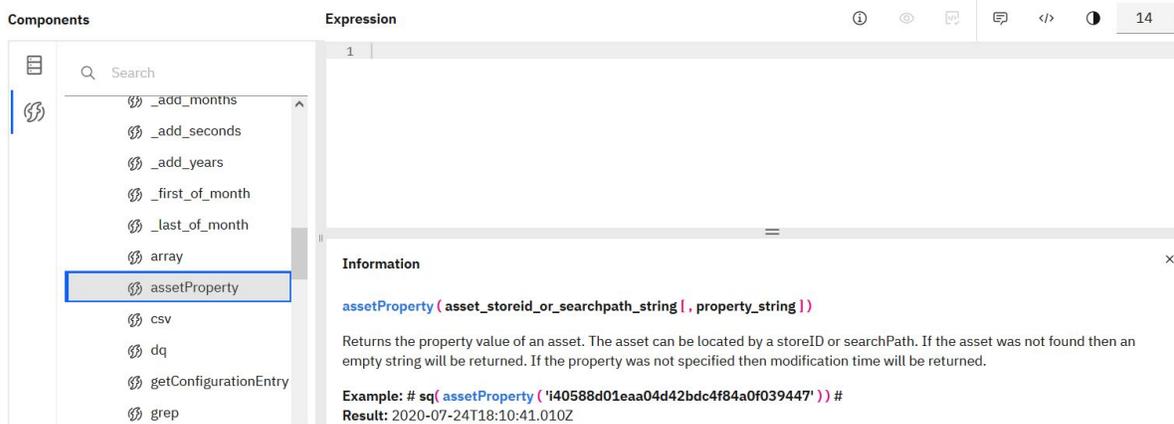
Learn about new features and changes to the IBM Cognos Analytics with Watson modeling components, primarily data modules.

## New macro function in the expression editor

The `assetProperty` function was added to the list of supported macro functions for the dynamic query mode.

Create calculation

Name



The screenshot shows the 'Components' panel on the left with a search bar and a list of functions. The `assetProperty` function is highlighted. An 'Information' dialog box is open, displaying the following details:

```
assetProperty ( asset_storeid_or_searchpath_string [, property_string ] )
```

Returns the property value of an asset. The asset can be located by a storeID or searchPath. If the asset was not found then an empty string will be returned. If the property was not specified then modification time will be returned.

**Example:** `# sq( assetProperty ( '140588d01eaa04d42bdc4f84a0f039447' ) ) #`  
**Result:** 2020-07-24T18:10:41.010Z

For more information, see "Creating expressions" in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Administration

Manage the security, access, and functionality of IBM Cognos Analytics with Watson components.

### New JRE version restricts unsecure TLS versions

A new version of IBM JRE, version 8.0.6.30, is packaged with Cognos Analytics 11.2.1. Version 8.0.6.30 offers benefits that include improved security by restricting unsecure versions of Transport Layer Security (TLS).

The [What's New documentation for IBM JRE version 8.0.6.30](#) states the following:

"TLS 1.0 and 1.1 are versions of the TLS protocol that are no longer considered secure and have been superseded by more secure and modern versions (TLS 1.2 and 1.3). From this release, TLS 1.0 and 1.1 are disabled by default."

**Note:** Before you connect Cognos Analytics 11.2.1 to a data source, you must ensure that the data source is not configured to run with TLS 1.0 or 1.1.

For more details about the new JRE version, see the [What's New documentation for IBM JRE version 8.0.6.30](https://www.ibm.com/docs/en/sdk-java-technology/8?topic=wn-service-refresh-6#security_whatsnew_sr6__fp30) ([https://www.ibm.com/docs/en/sdk-java-technology/8?topic=wn-service-refresh-6#security\\_whatsnew\\_sr6\\_\\_fp30](https://www.ibm.com/docs/en/sdk-java-technology/8?topic=wn-service-refresh-6#security_whatsnew_sr6__fp30)).

### New connection property to import metadata

A new connection property, `ibmcognos.import`, allows you to configure a data server connection that imports metadata.

For more information, see "ibmcognos.import" in the *IBM Cognos Analytics with Watson Managing Guide*.

### Support for Dremio

Cognos Analytics Dynamic Query now supports connections to Dremio via the Dremio JDBC driver.

For more information, see "Creating a data server connection" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Supported Software Environments page for release 11.2.1

Supported Software Environments information is available for IBM Cognos Analytics with Watson 11.2.1.

You can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.1.

Visit the 11.2 Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>.

## Vendor-supported driver versions tested with 11.2.1

IBM Cognos Analytics with Watson 11.2.1 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.1* [Relational] [OLAP] (<https://www.ibm.com/support/pages/node/6441017#11.2.1r>).

## Support for IBM Cloud SQL Query

Cognos Analytics Dynamic Query now supports connections to IBM Cloud SQL Query via the IBM Cloud SQL Query JDBC driver. The minimum version of the JDBC driver that is supported is 2.5.31.

For more information, see "Creating a data server connection" in the *IBM Cognos Analytics with Watson Managing Guide*.

## New license tier for Cognos Analytics for Mobile users

As of release 11.2.1, a new license role, **Analytics for Mobile User**, is available. When you grant a user the Analytics for Mobile User license, they are entitled to access Cognos Analytics content solely by using the Cognos Analytics for Mobile app.

**Tip:** To view and manage your licenses, select the Open menu , and then select **Manage > Licenses**.

The Licenses panel appears as follows:

< Licenses

Environment type

- Production
- Non-production

Global license usage

Used licenses represent the number of users that have accessed the product. You can set the number of owned licenses and view the license usage by user.

Licenses	Used	Owned		
Analytics Administrator	308	0	⌵	>
Analytics Explorer	0	0	⌵	>
Analytics User	0	0	⌵	>
Analytics Viewer	0	0	⌵	>
Analytics for Mobile User	0	0	⌵	>
Total (global licenses)	308	0	⌵	

Export Refresh Last refresh 9/13/2021, 2:44 PM

Apply Cancel

For more information, see "Managing licenses" and "Default permissions based on licenses" in the *IBM Cognos Analytics with Watson Managing Guide*.

### New standard role: Mobile Analytics Users

Version 11.2.1 introduces a new standard role, **Mobile Analytics Users**. This predefined role is assigned to people who use Cognos Analytics for Mobile.

For more information about the standard roles that are built in to the Cognos namespace, see "Standard roles" in the *IBM Cognos Analytics with Watson Managing Guide*.

For information about the related new license role, **Analytics for Mobile User**, see "License roles" in the *IBM Cognos Analytics with Watson Managing Guide*.

## New MySQL driver class

The default driver class name used for new MySQL connections has changed to `com.mysql.cj.jdbc.Driver`.

MySQL announced their intent to deprecate the old driver class name. You can change existing connections by editing the driver class name property from `com.mysql.jdbc.Driver` to `com.mysql.cj.jdbc.Driver`.

For more information, see [Changes in the Connector/J API \(https://dev.mysql.com/doc/connector-j/8.0/en/connector-j-api-changes.html\)](https://dev.mysql.com/doc/connector-j/8.0/en/connector-j-api-changes.html).

## SingleStore data server connection

A new option, **SingleStore**, is available when you select **Manage > Data server connections > Add data server**.

"SingleStore" is the rebranded name of the company formerly known as "memSQL".

**Note:** Existing connections that use the name memSQL are not impacted by this name change.

For more information about this Cognos Analytics driver, see "SingleStore" in the *IBM Cognos Analytics with Watson Managing Guide*.

For information about the rebranded company, see <https://www.singlestore.com/>.

## Environment variable to tune reporting performance

A new environment variable, `TCMALLOC_COMP_THRESHOLD`, allows you to tune the performance when you run reports.

For more information, see "Tuning performance for processing reports" in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

## Trino connection editor

A new option, **Trino**, is available when you create a data server connection. "Trino" is the rebranded name of the SQL query engine formerly known as "PrestoSQL".

As of release 358, the Trino rebranding applies to the code used by both the Trino driver and the server. In Cognos Analytics, the Trino connection editor defaults to the new driver class name used by Trino, `io.trino.jdbc.TrinoDriver`.

**Note:** If you have existing connections that refer to PrestoSQL, you must update the URL and driver class name with the protocol and driver class names used by Trino.

For more information, see the following topics:

- "Creating a data server connection" in the *IBM Cognos Analytics with Watson Managing Guide*
- the [Trino rebranding announcement \(https://trino.io/blog/2020/12/27/announcing-trino.html\)](https://trino.io/blog/2020/12/27/announcing-trino.html)
- Trino documentation about [release 358 \(https://trino.io/docs/current/release/release-358.html\)](https://trino.io/docs/current/release/release-358.html)

## New Compute service property

The Compute service uses the new property **`qs.queryExecution.flintServer.managedDatasetsLimit`** to control the number of data sets that it keeps registered in memory.

For more information, see "Configuring the Compute service" in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

## Authentication using JWT with Snowflake connections

You can configure a connection to Snowflake using the Snowflake JDBC driver so that it passes a JSON Web Token (JWT) when authenticating to the database.

For more information, see "Snowflake connections" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Support for JWT authentication with Db2 and BigSQL data server connections

A connection to a Db2 or BigSQL data server using the IBM JCC JDBC driver can be configured to pass a JSON Web Token (JWT) when authenticating to the database.

To use this functionality with a Db2 or BigSQL data server connection, Cognos Analytics must be configured to use an OpenID Connect authentication provider. To provide the token, the connection settings must specify the OpenID Connect namespace that was configured as an identity provider. The identity provider namespace must be capable of returning claims in the JWT that Db2 or BigSQL requires.

When setting the Db2 or BigSQL data server connection, choose the **Use an external namespace** authentication method. For more information, see "Creating a data server connection" in *Managing IBM Cognos Analytics with Watson*.

For information about configuring an OpenID authentication provider, see "OpenID Connect authentication provider" in *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

For information about which Db2, BigSQL, and IBM JCC versions support JWT authentication, refer to the related vendor documentation.

## Installation and configuration

Learn about changes to the IBM Cognos Analytics with Watson installation and configuration.

### New process for handling preserved files

The process of handling preserved files in IBM Cognos Analytics with Watson 11.2.1 is slightly different than in Cognos Analytics 11.2.0.

When you upgrade to Cognos Analytics 11.2.1, you are asked to confirm whether the files and folders that are specified in the `install_location\configuration\preserve\ca_base_preserve.txt` and `install_location\configuration\preserve\preserve.txt` files must be preserved. Depending on your decision, the installation proceeds in one of the following ways:

- You choose to preserve files.

New versions of files that are specified in the `preserve.txt` file are copied to the `install_location\configuration\preserved-by-manifest\manifest_version` directory. The `.new` extension is added to each file in this directory. For example, if `IBM_Cognos_Mobile_Samples.zip` is to be preserved, the directory would contain the `IBM_Cognos_Mobile_Samples.zip.new` file.

- You choose to not preserve files.

Old versions of files that are specified in the `preserve.txt` file are copied to the `install_location\configuration\preserved-by-manifest\manifest_version` directory. The `.old` extension is added to each file in this directory. For example, if `IBM_Cognos_Mobile_Samples.zip` is to be overwritten by the new installation, the directory would contain the `IBM_Cognos_Mobile_Samples.zip.old` file.

For information about the preserved files process in Cognos Analytics 11.2.0, see [“Changed process of handling preserved files” on page 121](#).

For more detailed information, see "Preserved files and folders when upgrading Cognos Analytics" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Gateway URI property in Jupyter Server configuration

As of Cognos Analytics release 11.2.1, when you configure Jupyter Notebook Server, you must specify a value for the **Gateway URI** property in Cognos Configuration.

For more information, see step **2 c** in "Configuring Jupyter Notebook Server" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Release 11.2.0 - May 2021

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This section describes new and changed features in IBM Cognos Analytics with Watson 11.2.0.

### Getting started

Learn about enhancements to the user interface, training materials, and features that affect multiple IBM Cognos Analytics with Watson components.

### Revamped user experience, based on Carbon design

Cognos Analytics has adopted Carbon, the IBM open source design system for digital products and experiences.

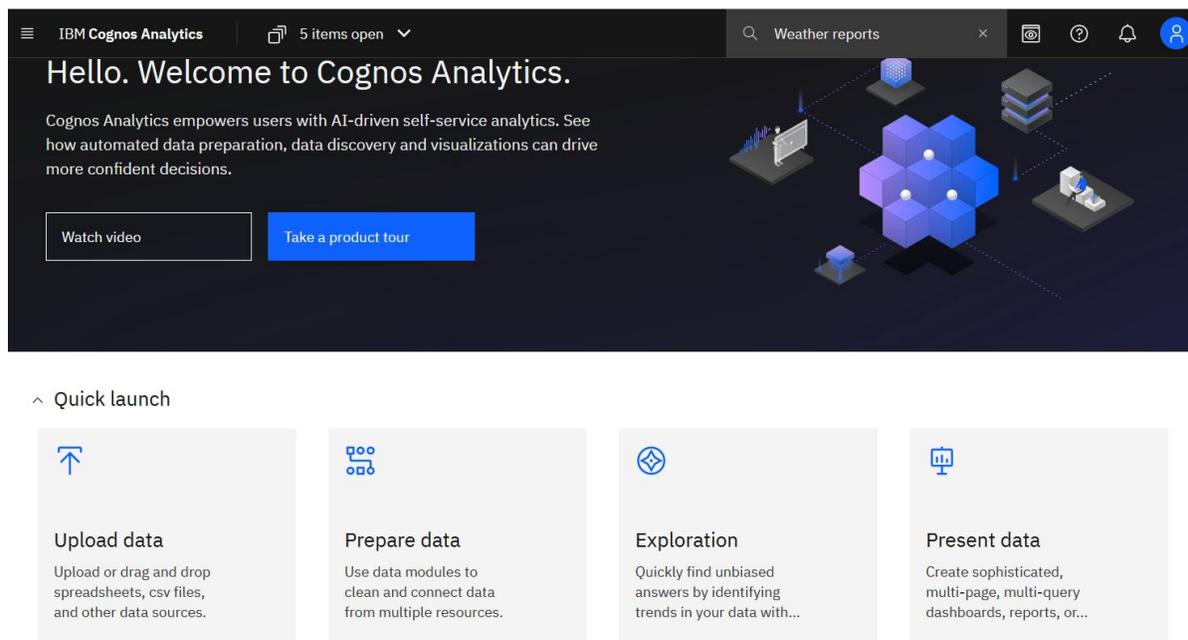
Carbon design adoption streamlines the web client user experience and unifies product familiarity across multiple IBM products. For more information, see <https://www.carbondesignsystem.com>.

For information about the Carbon-related changes in the Cognos Analytics common components, see other topics in the "Getting started" section of this document.

### Welcome page changes

The main changes in the IBM Cognos Analytics with Watson welcome page are related to the Carbon redesign. However, some other types of changes are also introduced.

The redesigned welcome page has a different look and feel, starting with the color palette.

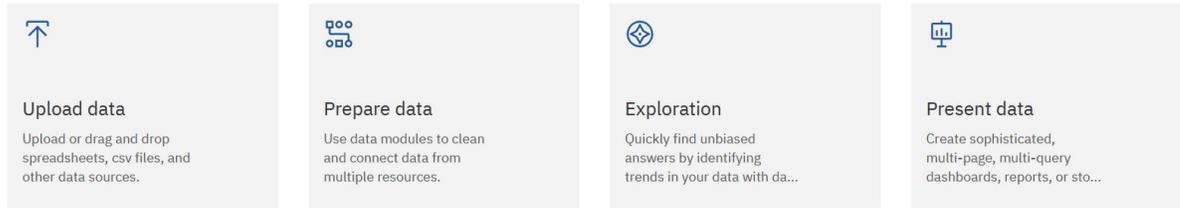


### Options to show and hide the welcome banner are different

You can use the **Close** icon  to hide the welcome banner. Or you can go to the personal menu , and under **Profile and settings** > **Settings**, toggle the **Welcome banner** switch on or off.

## Quick launch section is added

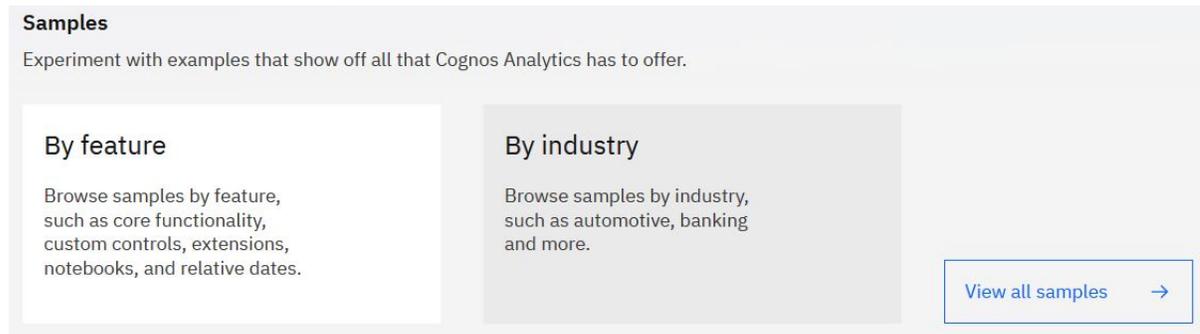
^ Quick launch



Use the tiles in this section to quickly start creating content in the different components of Cognos Analytics. For example, click **Prepare data** to start creating a data module, or **Present data** to start creating a dashboard, report, or story. The tiles are customizable.

## Samples section is added

The **Samples** section provides quick access to the samples that are installed with the product.



When you click any of the tiles or the **View all samples** link, the **Samples** folder or its subfolder is opened in the content view.

## Some options are removed from the application bar

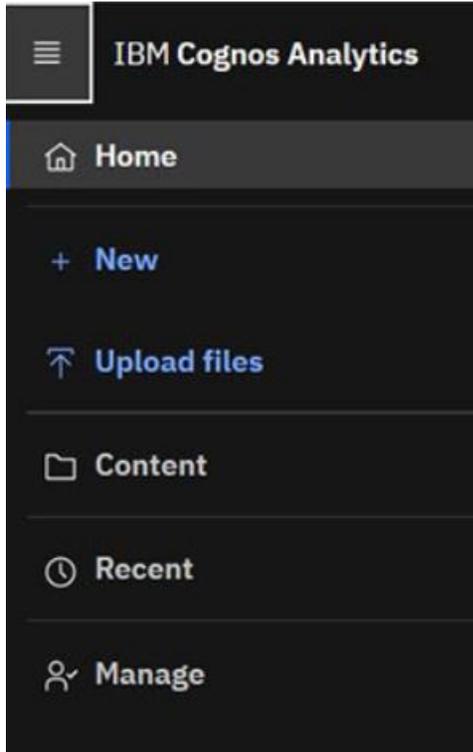
The **More** menu is not available in the application bar. The option to set a home page that was included in this menu is now available in the personal menu , under **Profile and settings** > **Settings**.

The **Quick links** menu is also removed from the application bar, and no longer available anywhere in the product.

For more information, see "*Welcome page*" *IBM Cognos Analytics with Watson Getting Started Guide*.

## Open menu

The **Open menu** is the main point of access to the IBM Cognos Analytics with Watson content and functionalities.



Click the **Open menu** icon  to view existing content in **Team content**, **My content**, and other folders, create new content, upload files, and access the product administration interfaces. Custom options can be added to this menu.

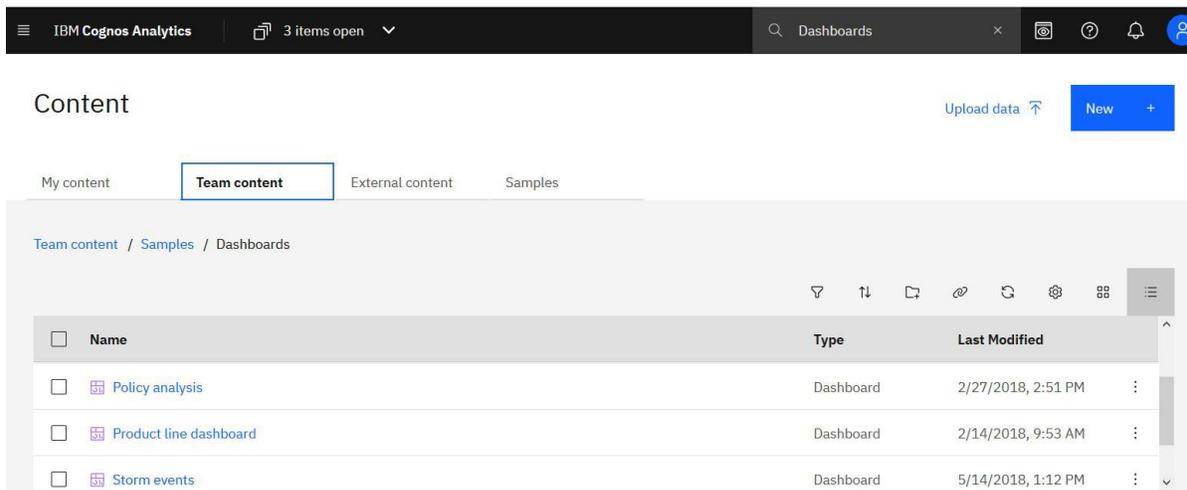
This menu replaces the content navigation pane from previous releases of Cognos Analytics.

For more information, see *"Open menu"IBM Cognos Analytics with Watson Getting Started Guide*.

## Full-page content view

Items in **Team content**, **My content**, **Samples**, and any custom folders are now displayed in a full-page, list or tiles (default) view. Additional, new options are available to work with items in this view.

The different folders are displayed on separate tabs. The **Team content** and **My content** folders are always available, as per previous product versions. The **Samples** folder is new in this release, and is available when samples are installed. The **External content** folder is also new, and is available when the **Watson Studio URL** is configured in **Manage**. If custom folders exist, they are also displayed here.



The following features in the content view are also new:

### Actions toolbar

This toolbar is available in both **List view** and **Tiles view**.

Use the toolbar options to organize items in folders, change the content view display, add subfolders and URLs, and perform actions on individual items.



The toolbar options change depending on the number and type of selected items. For example, the following options are available for an uploaded file.



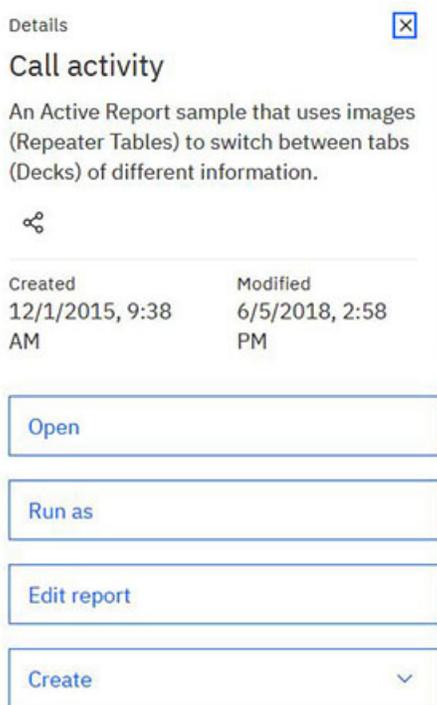
From the **More** menu, you can perform actions that are specific for the selected item. From the **Create** menu, you can create new objects that are relevant for the selected item.

### Sorting and filtering

The filter icon  and sort icon  are included in the actions toolbar.

### Details pane

The **Details** option is available for all types of items in the content view from the actions toolbar or from the context menu . The following example shows the **Details** pane for a report.



The **Details** pane includes the object metadata, such as the description and creation and modification dates. The different buttons are item-specific. The **Create** button can be used to create new content out of the item for which the details pane is opened.

### Creating new content and uploading files

You can now create new content and upload files directly from the content view by using the following buttons at the top of the page:

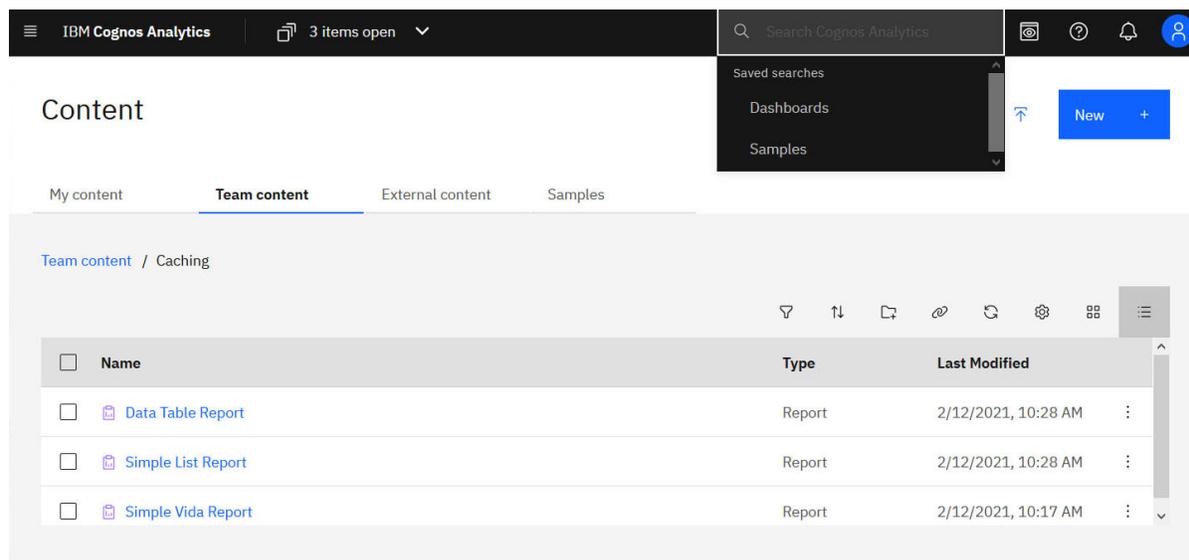


You can also use the **Create** option in the **Details** pane.

For more information, see "Content view" in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Search moved to the global application bar

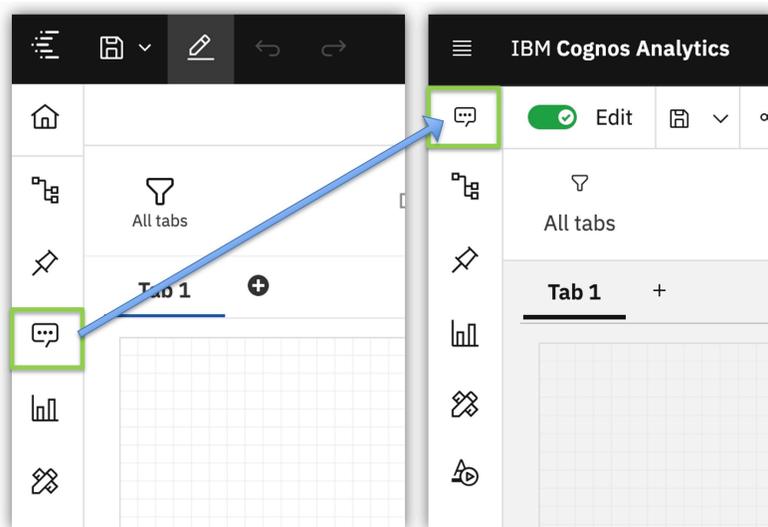
The search box is now located in the global application bar, and is available from any context in the product.



For more information, see the "Search" topic in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## Assistant icon moved to the global application bar

The Assistant icon is now located in the global application bar, and is available in Explorations, Dashboards, and Stories.

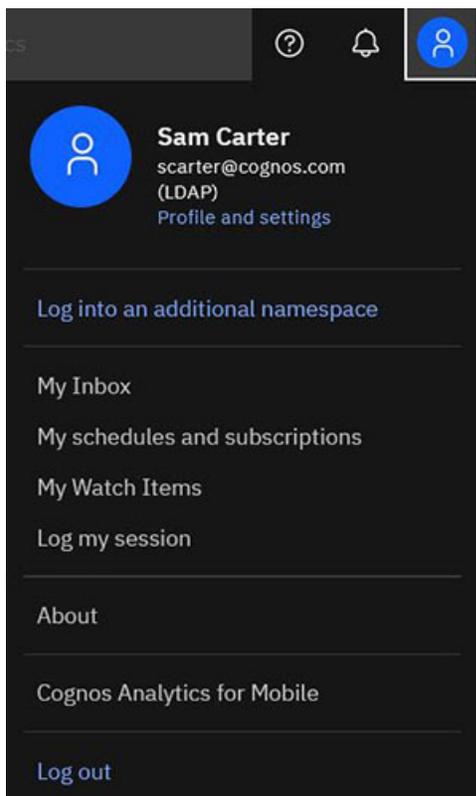


For more information, see "Assistant" *IBM Cognos Analytics with Watson Explorations Guide* or "Assistant" *IBM Cognos Analytics with Watson Dashboards and Stories Guide*.

## Redesigned personal menu

The display and organization of information in this menu is changed, and some options are renamed or removed.

Known from previous releases as **My preferences**, this link in the **Personal menu** is now named **Profile and settings**, and appears directly under the user name.



The link opens a panel where the user personal information (**Profile** tab), and preferred product settings (**Settings** tab) are specified.

For more information, see *"Personal profile and application settings"* IBM Cognos Analytics with Watson Getting Started Guide.

## Quick launch renamed to Quick upload

Use this functionality to upload files and simultaneously start creating a data module, exploration, dashboard, or notebook. The functionality itself has not changed.

For more information, see *"Quick upload functionality"* IBM Cognos Analytics with Watson Getting Started Guide.

## Edit icon replaced by a toggle switch

The edit icon in dashboards, stories, and reports is replaced by the edit toggle switch.

The **Edit** icon  was used to enable the edit mode in dashboards, stories, and reports in previous releases of Cognos Analytics.

The **Edit** toggle switch  **Edit** is now used to enable the edit mode in dashboards, stories, and reports.

## Expanded job options

In release 11.2, the **Jobs** user interface provides you with more options so that you can manage a very large number of reports more quickly.

As you create each job step, you now have these options:

- Ctrl-click to select multiple check boxes.
- **Select all in folder** and **Deselect all in folder** links.
- Tooltips that show the full path of each report.

For more information, see the *Creating a job to schedule multiple entries* topic in the *IBM Cognos Analytics with Watson Getting Started Guide*.

## **Default search operator changed from OR to AND**

The multi-term search queries in IBM Cognos Analytics with Watson are now based on the AND operator.

For example, when you search for the phrase `Quarterly performance dashboard`, the search results return items that include all words in the phrase (Quarterly AND performance AND dashboard).

If you want to switch the search operator from AND to OR, use the `SearchService.queryOperator` advanced setting in **Manage**.

For more information, see "Changing the query operator in searches" in the *IBM Cognos Analytics with Watson Managing Guide*.

## **Enrichment enabled for OLAP packages and cubes**

Framework Manager OLAP packages can now be enriched by using the automatic enrichment process. Cubes are enriched when they are used to create data modules.

When you enrich the OLAP packages, you can enable data sampling. For more information, see "Enriching packages" in the *IBM Cognos Analytics with Watson Managing Guide*.

When cubes are used to create data modules, the cubes are analyzed and enriched with extended metadata. For more information, see "Creating data modules from Planning Analytics cubes" in the *IBM Cognos Analytics with Watson Managing Guide*.

## **REST API session\_key without using cookies**

You can now use the Cognos Analytics REST API without using cookies.

Easily create a session and automatically include the returned `session_key` in subsequent API requests. This method is useful for non-browser clients and eliminates the need to pass the `cam_passport` cookie.

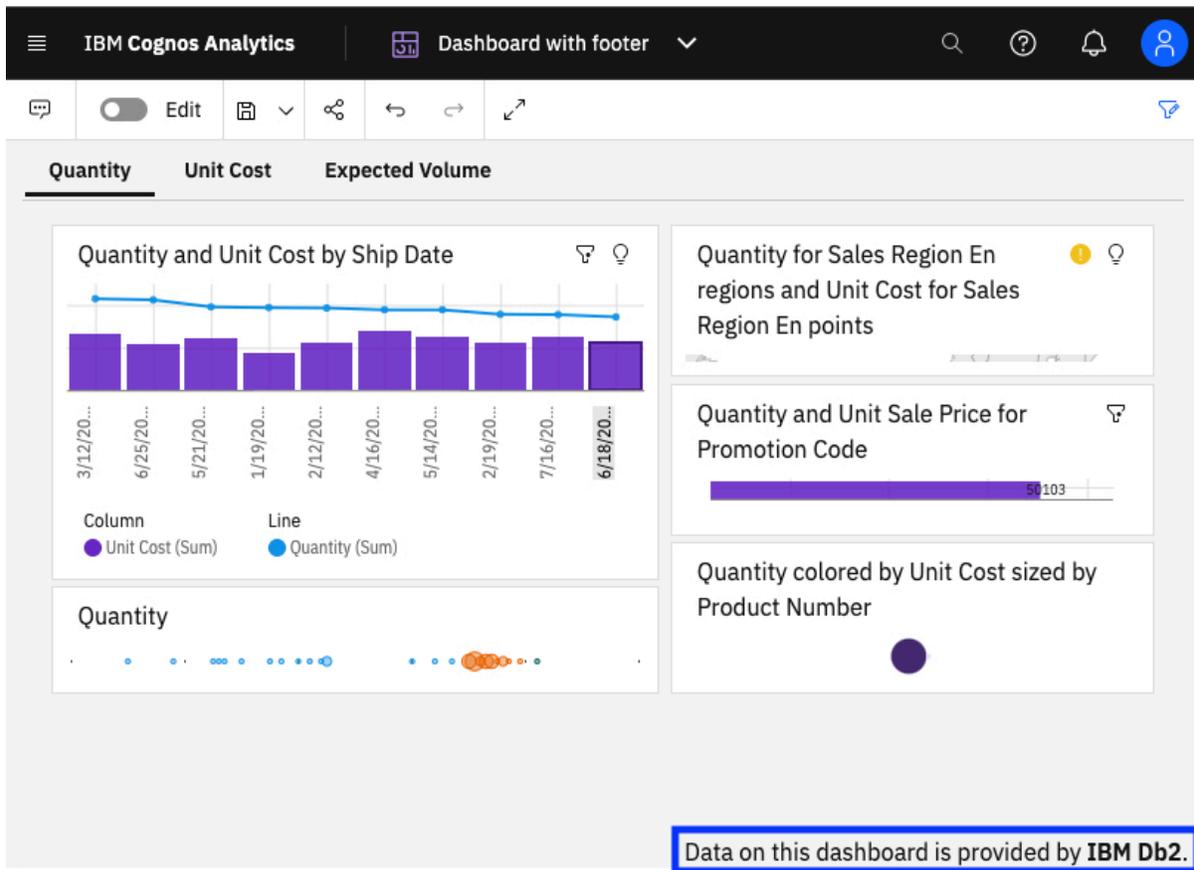
## **Dashboards**

Use IBM Cognos Analytics with Watson dashboards to discover key insights about your data and monitor events or activities at a glance.

### **Dashboard footer**

A footer on the dashboard informs users that data on the dashboard is provided by IBM Db2.

The footer is displayed when at least one visualization is using data from IBM Db2.



By default, the footer is enabled. You can disable the footer in the dashboard properties.

For more information, see the *Disabling the footer* documentation in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

## New visualizations in a dashboard

You can now use the box plot and radar visualizations in dashboards.

You can use box plots for identifying outliers and for comparing distributions.



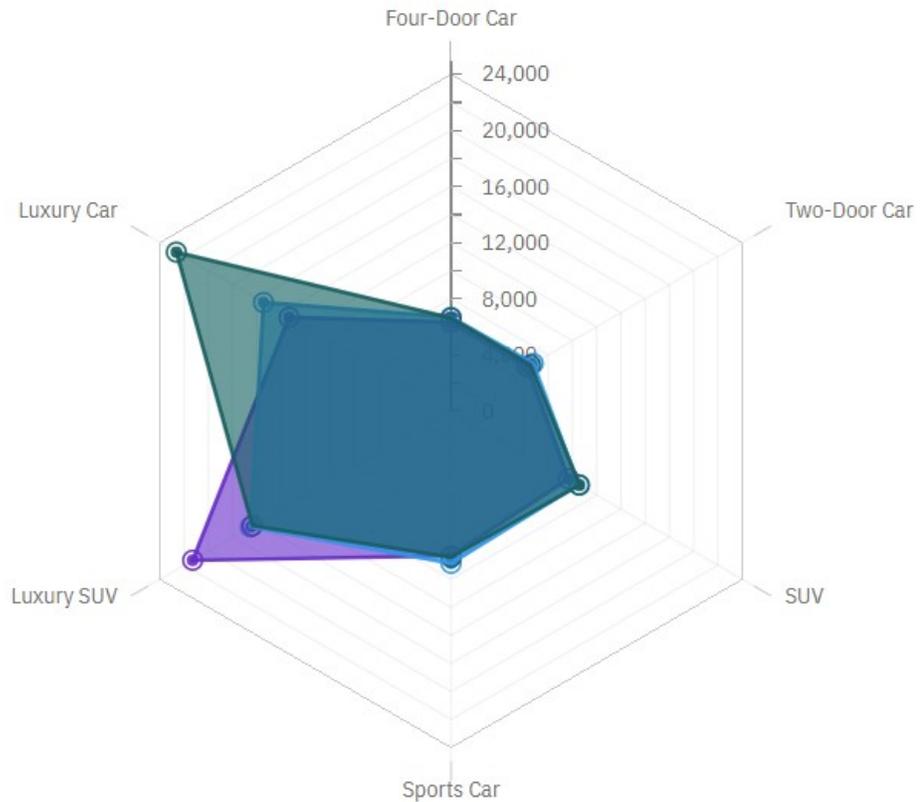
For more information, see the *Box plot* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

Radar visualizations are also useful for seeing which variables are scoring high or low within a data set, making them ideal for displaying performance.

## Customer Lifetime Value by Vehicle Class colored by Vehicle Size

Vehicle Size

● Large ● Medium ● Small



For more information, see the *Radar* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

### Showing labels in local language in a map in a dashboard

When you use a map in a dashboard, you can show the labels in the local language.

The following example shows a map visualization with the standard labels.



For more information, see the *Showing labels in local language in a map in a dashboard* topic in the *IBM Cognos Analytics with Watson Dashboard and Stories User Guide*.

## Query optimization

Queries are now consolidated, allowing fewer queries to be sent to the query engine.

You can use a single query to extract all measures from a data source. This results in fewer SQL queries, thereby improving the performance of the query engine. In previous releases, you had to create a separate query for each measure. In addition, because the query engine processes fewer requests, the query result cache undergoes less churn.

For more information, see "Configuring query settings" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Explorations

Uncover hidden relationships and identify patterns that turn your data into insights with IBM Cognos Analytics with Watson explorations.

### New visualizations in explorations

You can now use the box plot and radar visualizations in explorations.

You can use box plots for identifying outliers and for comparing distributions.

Retailer country, Gross profit, Province or State



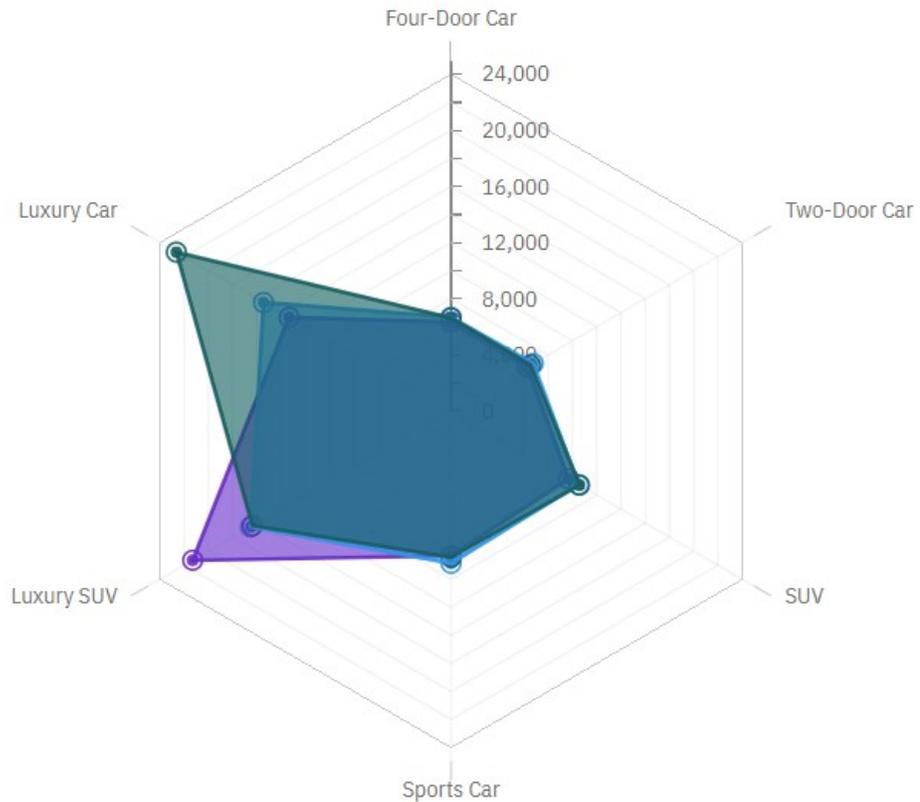
For more information, see the *Box plot* topic in the *IBM Cognos Analytics with Watson Explorations User Guide*.

Radar visualizations are also useful for seeing which variables are scoring high or low within a data set, making them ideal for displaying performance.

## Customer Lifetime Value by Vehicle Class colored by Vehicle Size

Vehicle Size

● Large ● Medium ● Small



For more information, see the *Radar* topic in the *IBM Cognos Analytics with Watson Explorations User Guide*.

## Notebook

IBM Cognos Analytics for Jupyter Notebook integrates Jupyter notebooks into IBM Cognos Analytics with Watson. You can create and upload notebooks into Cognos Analytics, and work with Cognos Analytics data in a notebook using Python scripts. You can also embed notebook output in a dashboard, story, or report.

### Imported notebook content from Watson Studio

In Cognos Analytics 11.2, if access to an external Watson Studio environment is enabled, you can import notebooks that were authored in IBM Watson Studio. You and your colleagues can then select content from an imported notebook and add it to a report or dashboard.

For more information, see "Importing Watson Studio notebooks to Cognos Analytics" in the *IBM Cognos Analytics with Watson Notebook Guide*.

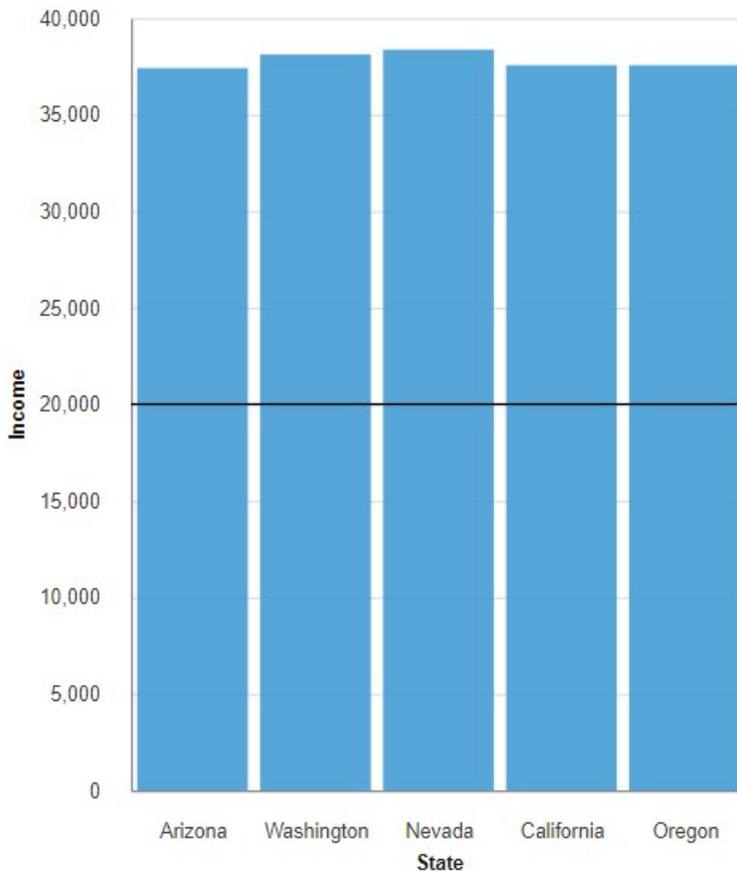
## Reporting

IBM Cognos Analytics with Watson reporting is a web-based report authoring tool that professional report authors and developers use to build sophisticated, multiple-page, multiple-query reports against multiple databases.

### Adding a baseline to a visualization based on a layout calculation or a query calculation

Baselines are horizontal or vertical lines that cut through the chart to indicate major divisions in the data. You can now add a baseline to a visualization based on a layout calculation or a query calculation.

A bar visualization with a baseline at 50%.



For more information, see the *Adding a baseline to a visualization* topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

### Define hyperlink in rich text element

You can now use the `a` element to define a hyperlink in a rich text element in a report. Use the `a` element to link from one page to another.

For more information, see the *Elements supported in rich text items* topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

### Showing labels in local language in a map in a report

When you use a map in a dashboard, you can show the labels in the local language.

The following example shows a map visualization with the standard labels.



The following example shows a map visualization with the local labels.



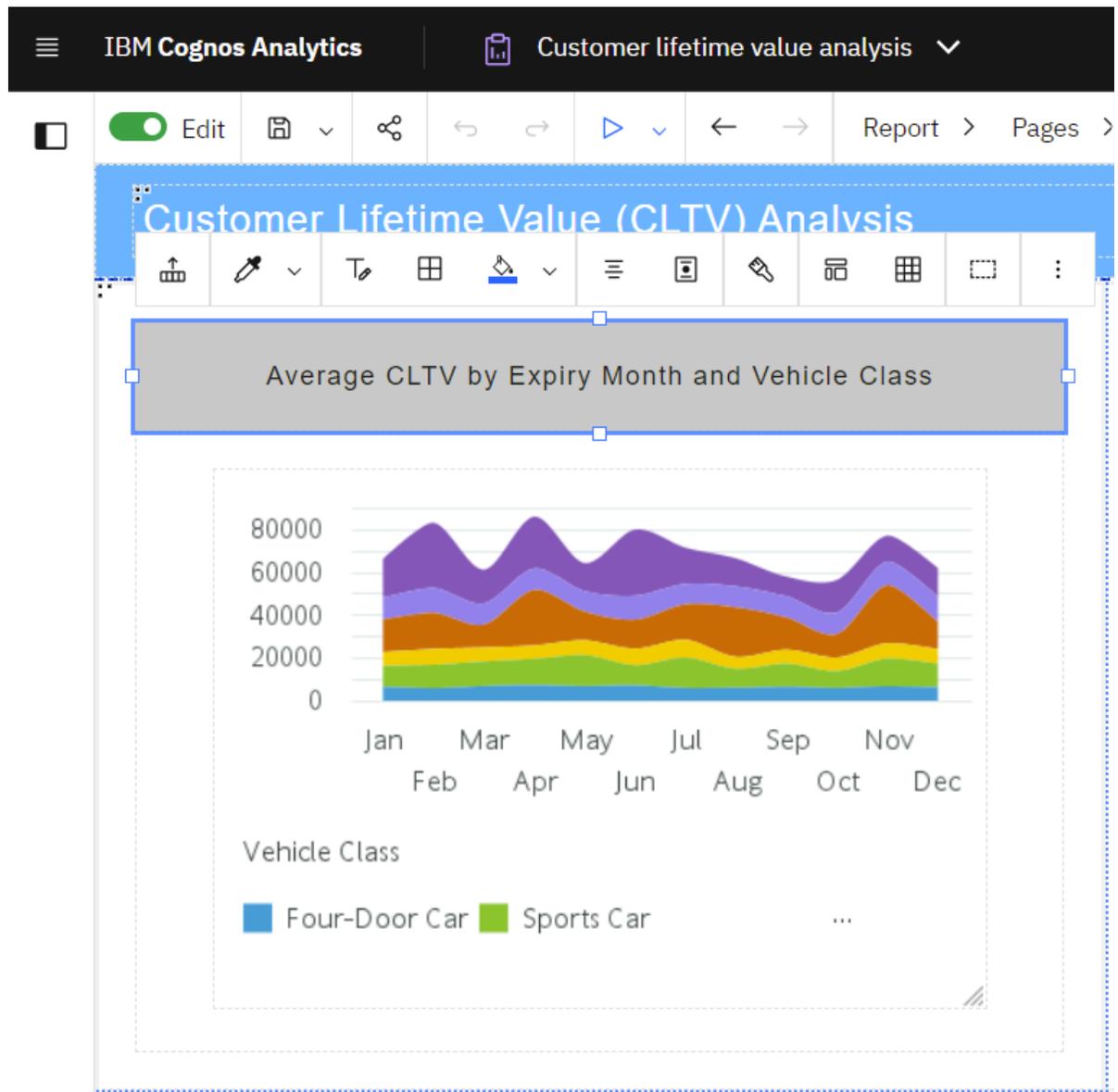
For more information, see the *Showing labels in the local language in a map in a report* topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Application-specific buttons have moved in reports

Application-specific buttons have moved from the app bar down into the content view.

The following buttons, for example, have moved:

- Save
- Undo and redo
- Run
- Share
- My Parameters
- Show filters



For more information, see the *The user interface* topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## New themes are available in reports

When you create a report, two new themes are available.

The following are available:

- Carbon X Light
- Carbon X Dark

For more information, see the *Templates and themes* topic in the *IBM Cognos Analytics with Watson Reporting User Guide*.

## Support for PDF drill-through actions in a report in Google Chrome and Mozilla Firefox

Release 11.2 supports PDF drill-through actions in a report in Google Chrome and Mozilla Firefox browsers Cognos Analytics.

For more information, see the *Drilling through to different report formats* topic in the *IBM Cognos Analytics with Watson Administration and Security Guide*.

## Upgrade requirement for the IBM Cognos Analytics Reports iOS app

If you are an IBM Cognos Analytics Reports iOS app user on Cognos Analytics version 11.0.13 FP3 or older, you must upgrade your version of IBM Cognos Analytics and the Cognos Analytics Reports iOS app to continue to receive push notifications.

The Cognos Analytics Reports app uses the Apple Push Notification service (APNs) to deliver notifications to users, such as when there are new reports or report versions delivered to them. The binary protocol push notification service that was being used by Cognos Analytics Reports has been de-activated by Apple. To continue to receive push notifications, you must upgrade your version of IBM Cognos Analytics and the Cognos Analytics Reports iOS app. For more information on the required upgrades, see [Cannot see push notifications from IBM Cognos Analytics Reports iOS app](#)

## Mobile

Use the IBM Cognos Analytics for Mobile app to quickly see how your business and organization is performing.

### Support for Android

IBM Cognos Analytics for Mobile can now be used on Android devices.

If you have an Android mobile device running on Android 10 or 11, you can now download and use IBM Cognos Analytics for Mobile on your device. To download IBM Cognos Analytics for Mobile for Android, visit the Google Play Store and search for **IBM Cognos Analytics Mobile**.

### Support for Cognos Analytics on Premises

You can now connect to your Cognos Analytics on Premises servers from IBM Cognos Analytics for Mobile.

In previous versions of IBM Cognos Analytics for Mobile, you could not connect to a Cognos Analytics on Premises server. As of IBM Cognos Analytics for Mobile version 11.2.0, you can now use a Cognos Analytics on Premises server and login credentials to use the app with data from your Cognos Analytics on Premises server.

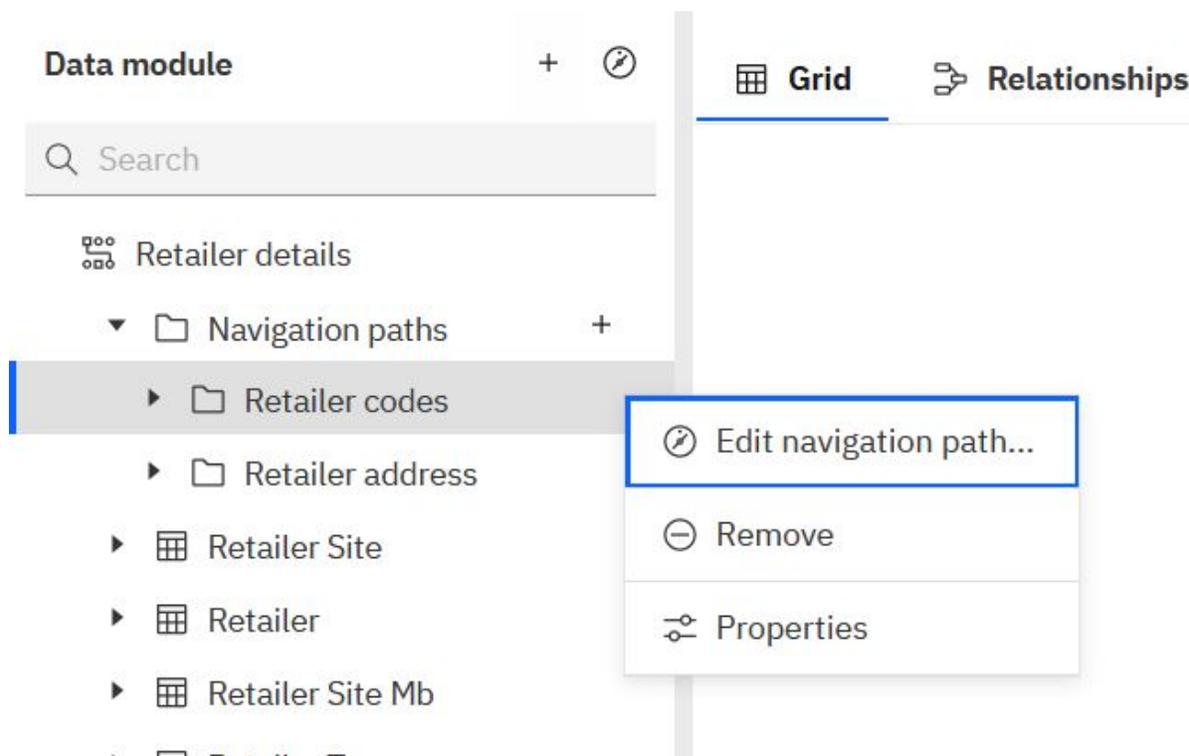
## Modeling

Learn about new features and changes to the IBM Cognos Analytics with Watson modeling components, primarily data modules.

## Navigation path enhancements

It's now easier and faster to create, edit, and view navigation paths within a data module.

The navigation paths are grouped in one folder named **Navigation paths** that is created by default at the root of the data module.



To create a navigation path, you click the plus icon **+** next to the **Navigation paths** folder. The new navigation paths are added within this folder. The navigation path context menu includes options to manage the navigation path.

For more information, see the *Creating navigation paths* in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Data grouping available for some stand-alone calculations

The context menu action on a stand-alone (global) calculation can now include the **Create data group** option.

However, the **Create data group** option is available only when the calculated column data type is numeric or string, and the **Aggregate** property is set to **None**.

For more information, see the *Creating data groups* in the *IBM Cognos Analytics with Watson Data Modules Guide*.

## Java examples for data modeling

Java examples are now available to help you automate modeling tasks in Cognos Analytics.

The following common tasks can be achieved programmatically by using the provided REST API examples.

- Load metadata
- Load metadata with select tables
- Reload metadata
- Upload new files

- Replace uploaded files
- Append to uploaded files

To access the examples and readme.txt, navigate to `../sdk/modeling/java/examples` in your local installation.

## Samples

Get a deeper understanding of IBM Cognos Analytics with Watson capabilities with updated sample content.

### New base samples

Several new base samples were added to demonstrate the capabilities in Cognos Analytics.

The following samples are now available:

#### Getting started

- My first dashboard
- Visualization gallery

#### Dashboards

- Monitor bottle manufacturing
- Profit analysis
- Resource utilization summary

#### Explorations

- Employee billings exploration

#### Reports

- Annual timesheet billing summary
- Expense detail by vendor
- Income statement
- Income statement - month and YTD
- Invoice generator
- Revenue detail by customer

#### Custom controls

All existing JavaScript samples were modified to use uploaded extensions to supply the JavaScript files.

#### Extensions

Several extensions were updated with the new user interface.

For details on each sample, go to [New Base Samples for IBM Cognos Analytics 11.2.0](https://community.ibm.com/community/user/businessanalytics/blogs/steven-macko/2021/05/13/new-base-samples-for-ibm-cognos-analytics-1120) (<https://community.ibm.com/community/user/businessanalytics/blogs/steven-macko/2021/05/13/new-base-samples-for-ibm-cognos-analytics-1120>).

## Administration

Manage the security, access, and functionality of IBM Cognos Analytics with Watson components.

### Secure data server connections using certificates stored on the cloud

You can point your data server connection to a database that is configured for SSL certificates. In your connection, you specify S3 header information that references a certificate stored in a Cloud Object Storage location.

For more information, see "Securing your data server connection using a cloud-based certificate" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Support for Cloud Object Storage connections with server-side encryption

IBM Cognos Analytics with Watson release 11.2.0 allows you to create a connection with a Cloud Object Storage (COS) provider that is secured using server-side encryption.

This is accomplished in S3 by including the header `x-amz-server-side-encryption` in the request to specify server-side encryption.

For more information, see the following:

- "Step 4: Create a bucket" in "Creating an Amazon storage connection" in the *IBM Cognos Analytics with Watson Managing Guide*
- step 6 in "Creating a storage connection in Cognos Analytics" in the *IBM Cognos Analytics with Watson Managing Guide*
- "S3 headers not specified in connection" in the *IBM Cognos Analytics with Watson Managing Guide*

## Enable shared Notebook content from Watson Studio

You can enable Cognos Analytics users to import Notebook content that was authored in IBM Watson Studio. Users can then add the content to Cognos Analytics assets.

For more information, see the "Enabling access to external Watson Studio notebooks" topic in the *IBM Cognos Analytics with Watson Managing Guide*.

## Disable option for running jobs all at once

As of release 11.2, administrators can disable the option to create a job in which every report is run at the same time.

For more information, see "Disabling the Run all at once option in jobs" in the *IBM Cognos Analytics with Watson Managing Guide*.

## External Content capability

A new capability, **External Content**, is available in Cognos Analytics 11.2. In addition, a new secured function, **Watson Studio**, is associated with the External Content capability.

The **External Content** capability allows the assignee to use content from sources that are external to IBM Cognos Analytics.

The **Watson Studio** secured function allows the assignee to create assets in the Cognos Analytics content store that reference external Watson Studio Notebooks.

For more information on capabilities, see these topics:

- "Initial access permissions for capabilities" in the *IBM Cognos Analytics with Watson Managing Guide*
- "Default permissions based on licenses" in the *IBM Cognos Analytics with Watson Managing Guide*

For information about using Watson Studio content in Cognos Analytics notebooks, see "Adding Watson Studio content" in the *IBM Cognos Analytics with Watson Notebook Guide*.

## Theme properties

Two new theme properties are available when you create a theme.

- `uiShellTheme`  
Allows you to switch between carbon 10 (light) and 100 (dark/default) background.
- `personalMenuBackground`  
Specifies the background color of the Personal menu icon <sup>8</sup>.

For more information, see "View images that show how each parameter in the theme is applied" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Property for the maximum number of rows in a query

The `ibmcognos.maxRowsRetrieved` property on a data server connection can be used to set the maximum number of rows that are returned in an SQL query.

This property is applicable for the dynamic query mode (DQM) only, and can be used to prevent users from executing queries which retrieve large numbers of rows from the database server.

For more information, see "ibmcognos.maxRowsRetrieved" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Analytics Administrators role removed (new installations only)

As of release 11.2, the Analytics Administrators role is removed as a default role in the Cognos namespace. This change applies only to new installations. If you upgrade to release 11.2, the Analytics Administrator role is retained.

**Note:** The Analytics Administrator *license* role remains for license tracking purposes.

For more information about roles in the Cognos namespace, see "Standard roles" in the *IBM Cognos Analytics with Watson Managing Guide*.

For more information about licenses, see "License roles" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Default driver class name changed for Cloudera Impala

In IBM Cognos Analytics with Watson 11.2.0, the default driver class name has changed for Cloudera Impala.

The Cloudera Impala driver 2.6.15.1017 and higher now supports `com.cloudera.impala.jdbc.Driver` as the driver class name. As a result, the default driver class name has changed from `com.cloudera.impala.jdbc4.Driver` to `com.cloudera.impala.jdbc.Driver`.

If you prefer to use the older driver than 2.6.15.1017, you must manually change the driver class name back to `com.cloudera.impala.jdbc4.Driver` or `com.cloudera.impala.jdbc41.Driver` depending on the level of the JDBC driver API.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.0* [Relational] [OLAP] (<https://www.ibm.com/support/pages/node/6441017#11.2.0r>).

## Vendor-supported driver versions tested with 11.2.0

IBM Cognos Analytics with Watson 11.2.0 supports an updated list of client driver versions.

For more information, see *Vendor-supported client driver versions that were tested with Cognos Analytics on Premises 11.2.0* [Relational] [OLAP] (<https://www.ibm.com/support/pages/node/6441017#11.2.0r>).

## The default expiration age of static content is enabled

The default value of the advanced setting `BIResponseWrapper.staticExpiresDays` is now 7 (days). Previously, the default value was 0.

With this change, static content, such as `.css` file and `.js` files, stays in cache for seven days before it expires. This can reduce significantly the download time of static content.

This change applies only to an installation for which no value is already set:

- If your environment includes web servers and a value is already set, that value will take precedence.
- If you are upgrading to release 11.2 and `BIResponseWrapper.staticExpiresDays` was previously set, there is no impact.

**Tip:** If your static content is out of sync with the server side, refresh the browser or delete the local cache in your browser.

If you want to change the expiration age of static content, you can change the value, in days, of the `BIResponseWrapper.staticExpiresDays`.

For more information, see "Setting response headers for HTTP requests" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Customized Java dumps enabled from the Manage tool

Administrators can now configure Java dumps from the **Diagnostic logging** panel in the Manage tool.

For more information, see "Enabling diagnostic logging for Java dumps" in the *IBM Cognos Analytics with Watson Managing Guide*.

## Installation and configuration

Learn about changes to the IBM Cognos Analytics with Watson installation and configuration.

### New node-service property in Cognos Configuration

In release 11.2.0, Cognos Configuration contains the new node-service property **nodejsServicesPortRange**.

For more information, see "Review the default port settings" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

### Renamed configuration file

In release 11.2, the configuration file `preserve.txt` is renamed to `preserve.txt.template`.

For more information, see "Preserved files and folders when upgrading Cognos Analytics" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

### Changed process of handling preserved files

When you install IBM Cognos Analytics with Watson 11.2 over an earlier version of the product, new versions of preserved files, with the `.new` extension, are added to the installation directories.

Starting with Cognos Analytics 11.0.6, customers can specify which files in the installation directory must be preserved (not overwritten) when the product is upgraded to a newer version. Until now, new versions of the files that the customer chose to preserve were not installed during the upgrade process.

Starting with Cognos Analytics 11.2, new versions of preserved files, named `filename_manifestversion.new`, are added to the installation directories. For example, if you decide to preserve the samples deployment `install_location\deployment\IBM_Cognos_Mobile_Samples.zip`, the `install_location\deployment` directory will contain the following files after the upgrade:

- `IBM_Cognos_Mobile_Samples.zip`

This is the preserved samples deployment.

- `IBM_Cognos_Mobile_Samples.zip_manifestversion.new`

This is the new version of the samples deployment. If the installer used the manifest `casrv-manifest-11.2.0-2104060200-linux138664h.json`, the exact file name would be `IBM_Cognos_Mobile_Samples.zip_11.2.0-2104060200.new`.

**Note:** This change doesn't apply to files and folders that are preserved by default.

For more information, see "Preserved files and folders when upgrading Cognos Analytics" in the *IBM Cognos Analytics with Watson Installation and Configuration Guide*.

## Supported Software Environments page for release 11.2.0

A new Supported Software Environments page is available for IBM Cognos Analytics with Watson 11.2.0.

Here you can find up-to-date information about the supported software, data sources and minimum requirements for using IBM Cognos Analytics 11.2.0.

Visit the 11.2 Supported Software Environments page at <https://www.ibm.com/support/pages/node/6440667>.

## IBM Cognos Analytics for Mobile is bundled with Cognos Analytics

As of release 11.2.0, IBM Cognos Analytics for Mobile is now bundled with Cognos Analytics Client Hosted.

Previously, in version 11.1.7, Cognos Analytics Client Hosted users were required to install and configure IBM Cognos Analytics for Mobile separately. Starting from version 11.2.0, IBM Cognos Analytics for Mobile is now bundled and installed automatically with Cognos Analytics Client Hosted.

## IBM Cognos Analytics with Watson removed from the list of programs in the Windows Control Panel

IBM Cognos Analytics with Watson no longer appears in the list of programs in the Windows **Control Panel**.

For example, in Windows 10, when you open **Control Panel**, and click **Programs and Features** or **Uninstall a program**, IBM Cognos Analytics with Watson is not listed there. The same change applies to all client applications, such as IBM Cognos Framework Manager, IBM Cognos PowerPlay, and all the other client applications.

To open or uninstall Cognos Analytics or any of its client applications, use the start menu shortcut, or for uninstalling, also the `uninstall` folder in the product installation directory.

## Anaconda packages removed from Jupyter Server installation

As of release 11.2, Anaconda/Conda packages are no longer included in IBM® Cognos® Analytics for Jupyter Notebook Server.

For more information, see "Installing IBM Cognos Analytics for Jupyter Notebook Server" in the *IBM Cognos Analytics with Watson Notebook Guide*.

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# Chapter 2. Deprecated and removed features in 11.2.x

This section provides information about features that are deprecated or removed from IBM Cognos Analytics with Watson 11.2.x versions.

For a list of data servers that were deprecated or removed in different releases, see "Data sources that are no longer supported in Cognos Analytics" in *IBM Cognos Analytics with Watson Managing* guide.

## 11.2.4 FP3 - January 2024

### Removed narrative insights icon from visualizations

As of release 11.2.4 FP3, the narrative insights icon is removed from visualizations. You can still access narrative insights from the **Analytics** panel.

### Removed Meta Integration Model Bridge (MIMB)

MIMB was used with Framework Manager to extract metadata from third-party data sources.

### Removed support for data server connections

Support for the following data server connections is removed from Cognos Analytics:

- MySQL 5.6
- Mongo BI 2.13 or earlier
- MariaDB 10.2
- SingleStore 7.1 and 7.3
- Dremio 17
- Db2 LUW 10.1

### Deprecated support for data server connections

In a future version of Cognos Analytics, support will be removed for the following data server connections:

- MySQL 5.7
- Mongo BI Connector 2.14
- SingleStore 10.3 thru 10.9
- SingleStore 7.5 and 7.6
- Dremio 18 and 19
- Db2 LUW 10.5

## 11.2.4 - December 2022

### Removed data source connectors

As of release 11.2.4, connectors for Essbase have been removed from IBM Cognos Analytics with Watson. Existing connections will no longer work, and the ability to create new Essbase connections has been removed. In addition, support for Essbase has been removed.

### Removed legacy SFDC connection type

The connection editor in the Administrator console is now removed. Create new connections to Salesforce using the [JDBC Salesforce connection editor](#).

## 11.2.3 - August 2022

### Deprecated or removed compatibility with other products

IBM Cognos Analytics with Watson no longer works with the following products or product versions. These products are either deprecated or no longer supported.

- Windows 8 and 8.1

Cognos Analytics is no longer supported on Windows 8 and 8.1. For more information, see <https://support.microsoft.com/en-us/office/windows-8-and-windows-8-1-end-of-support-and-office-34e28be4-1e4f-4928-b210-3f45d8215595>.

**Note:** After year 2018, all Windows 8 users were required to move to Windows 8.1.

- Microsoft Internet Information Services (IIS) 7.5

IIS 7.5 is no longer supported by Microsoft. For more information, see <https://docs.microsoft.com/en-us/lifecycle/products/internet-information-services-iis>.

- IBM InfoSphere Information Server 11.3 and 11.5

IBM InfoSphere Information Server version 11.3 was withdrawn from the market on September 30, 2020, and version 11.5 on April 30, 2021. For more information, see <https://www.ibm.com/support/pages/lifecycle/search?q=IBM%20InfoSphere%20Information%20Server>.

- Microsoft .NET Framework 4.0

Microsoft .NET Framework 4.0 is not supported as of January 12, 2016. For more information, see <https://docs.microsoft.com/en-us/lifecycle/products/microsoft-net-framework>.

Currently, Cognos Analytics uses Microsoft .NET Framework 4.8.04084.

- IBM Connections

IBM Connections was discontinued on September 30, 2019. For more information, see [https://www.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep\\_ca/9/897/ENUS918-119/index.html&request\\_locale=en](https://www.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/9/897/ENUS918-119/index.html&request_locale=en).

- Mozilla Firefox ESR 68 and ESR 78

Mozilla Firefox ESR 68 is not supported as of September 22, 2022. For more information, see <https://support.mozilla.org/en-US/kb/firefox-enterprise-79-release-notes>.

Mozilla Firefox ESR 78 is not supported as of November 2, 2021. For more information, see [https://wiki.mozilla.org/Release\\_Management/Calendar](https://wiki.mozilla.org/Release_Management/Calendar).

- Adobe Reader XI and DC

Adobe Reader XI is not supported as of October 15, 2017, and Adobe Reader DC as of July 7, 2020. For more information, see <https://helpx.adobe.com/support/programs/eol-matrix.html>.

- FileNet Content Manager 5.2

FileNet Content Manager 5.2 is not supported as of April 30, 2022. For more information, see [FileNet Content Manager\\_5.2.x - Withdrawal notification](#).

### Removed data source connectors

As of release 11.2.3, connectors for several types of data sources are removed from IBM Cognos Analytics with Watson. If you have existing connections to these data source types, they will no longer work.

Connectors are removed for these data source types:

- IBM Weather Company
- TM1
- IBM Planning Analytics versions prior to 2.0.6

We recommend that you upgrade your Planning Analytics data server to a supported version. For more information, see the "Cognos Analytics on Premises 11.2.3" section of the [Supported Software Environments](#) page.

- Microsoft Analysis Services (OLEDB) versions prior to SQL Server 2016 Service Pack 2

We recommend that you upgrade your MSAS (OLEDB) data server to a supported version. For more information, see the "Cognos Analytics on Premises 11.2.3" section of the [Supported Software Environments](#) page.

### **Deprecated data source connections**

In a future version of Cognos Analytics, support will be removed for the following data source connections:

- Planning Analytics 2.0.6 - 2.0.8
- Snowflake prior to 3.10
- Oracle Database 11g and 12c
  - Oracle Database 11g Standard Edition Release 2
  - Oracle Database 11g Enterprise Edition Release 2
  - Oracle Database 12c Release 2 (12.2) Standard Edition
  - Oracle Database 12c Release 2 (12.2) Enterprise Edition
  - Oracle Database 12c Release 1 (12.1.0.0.0) Enterprise Edition
  - Oracle Database 12c Release 1 (12.1.0.0.0) Standard Edition
  - Oracle Database 12c Release 1 (12.1.0.1.0) Standard Edition
- IBM Db2 Server 10.5
  - IBM Db2 Advanced Enterprise Server Edition 10.5
  - Db2 Express Server Edition 10.5
  - DB2 Workgroup Server Edition 10.5
  - DB2 Enterprise Server Edition 10.5
  - DB2 Advanced Workgroup Server Edition 10.5
- Essbase

### **Removed report property Enable comments in saved output versions**

This property is no longer used. It was available in the report **Properties**, on the **Report** tab, in the **Advanced** section.

## **11.2.2 - March 2022**

### **Deprecated legacy SFDC connection type**

The connection editor in the Administrator console will be removed in a future release of Cognos Analytics. Create new connections to Salesforce using the JDBC [Salesforce connection editor](#).

### **Deprecated support for connection to these data server versions**

In a future release of Cognos Analytics, support will be removed for these data server connection versions:

- Vertica 9
- Dremio versions 15 to 17
- Teradata 16.20
- Mongo BI Connection 2.12 and 2.13
- MySQL 5.6
- PostgreSQL 9.6

- MariaDB 10.2
- Denodo 6.0

### **Removed support for big endian Linux on IBM Power systems**

Big endian Linux distributions running on IBM Power systems are no longer supported by Cognos Analytics. As a result, the part "Linux on System p Multilingual" is not included in the eAssembly for IBM Cognos Analytics Server 11.2.2. In previous Cognos Analytics releases, this part installed components using the `linuxppc64h` platform name.

You can download the 11.2.2 eAssembly from IBM Passport Advantage. For more information, see [Downloading IBM Cognos Analytics 11.2.2](https://www.ibm.com/support/pages/node/6564061) (https://www.ibm.com/support/pages/node/6564061).

To view the original deprecation announcement, see [Deprecation of IBM Cognos Analytics for big endian Linux on IBM Power systems and for Oracle Solaris](https://www.ibm.com/support/pages/deprecation-ibm-cognos-analytics-big-endian-linux-ibm-power-systems-and-oracle-solaris) (https://www.ibm.com/support/pages/deprecation-ibm-cognos-analytics-big-endian-linux-ibm-power-systems-and-oracle-solaris).

### **Blocked connections to database versions**

**Note:** In Cognos Analytics 11.1.7, released in July 2020, several database versions were listed for deprecation. For more information, see [11.1.7 - July 2020 - Deprecation of some versions of data servers](#).

As of release 11.2.2, Cognos Analytics blocks connections to the following database versions:

- Vertica releases prior to 9.0
- Greenplum releases prior to 5.2.0
- Exasol releases prior to 7.0
- Mongo BI Connector releases prior to 2.12
- Informix releases prior to 12.10
- Impala releases prior to 3.1
- MariaDB releases prior to 10.2
- MySQL releases prior to 5.6
- Singlestore releases prior to 7.0
- Db2 distributed (LUW) releases prior to 10.5
- Denodo releases prior to 6.0
- SAP Hana 1
- Tibco Data Virtualization releases prior to 7.0.6
- Teradata releases prior to 16.10
- ORACLE 18

### **Removed support for Teradata Presto**

Teradata Presto data sources are no longer supported by Cognos Analytics. Existing connections should be updated to use Presto JDBC instead.

### **Removed support for OLAP data sources**

The following OLAP data sources are no longer supported by Cognos Analytics:

- IBM Planning Analytics prior to 2.0.6.
- IBM TM1 (all versions)
- Microsoft Analysis Services (OLEDB) prior to SQL Server 2016 Service Pack 2

## **11.2.0 - May 2021**

### **Removed support for LifeCycle Manager**

IBM Cognos LifeCycle Manager is no longer supported.

### **Removed support for toolbar docking and undocking for visualizations**

On a dashboard, the visualization toolbar is available at the top of your dashboard and can no longer be docked or undocked.

### **Hints no longer available**

The hints were used to help you navigate the user interface.

You can now use the **Learn** pane  to view context sensitive help.

### **Removed IBM Cognos Analytics listing from the Windows Control Panel**

For more information, see [“IBM Cognos Analytics with Watson removed from the list of programs in the Windows Control Panel” on page 122](#)

### **Deprecated REST API endpoints**

The following endpoints have been deprecated:

- /extension/file
- /theme/file

### **Deprecated support for connections to Redshift Server via a Postgres JDBC driver**

Support for data server connections to Redshift Server via a Postgres JDBC driver will be removed in a future release of Cognos Analytics.

### **Deprecated support for SPARK SQL Thrift data server**

Support for SPARK SQL Thrift data server will be removed in a future release of Cognos Analytics.

### **Removed support for Computer Associates (Brocade) IDMS**

Computer Associates (Brocade) IDMS data sources are no longer supported by Cognos Analytics.

### **Removed support for Microsoft Internet Explorer**

Support for Microsoft Internet Explorer is removed as of Cognos Analytics 11.2.0. Microsoft Edge Chromium is now the only supported Microsoft web browser.

For more information, see the following:

- [11.1.7 Internet Explorer deprecation announcement](https://www.ibm.com/support/pages/node/6453745) (https://www.ibm.com/support/pages/node/6453745)
- [11.2 Supported Environments](https://www.ibm.com/support/pages/node/6440667) (https://www.ibm.com/support/pages/node/6440667)

### **Translation of messages and user interface text is no longer supported in some languages**

The translation of messages and user interface text is no longer supported in the following languages:

- Catalan
- Greek
- Slovak
- Indonesian
- Malay

### **Deprecated features in Cognos for Microsoft Office**

The following features will be removed from IBM Cognos for Microsoft Office in a future release:

- The **Open Folder** option from a folder right-click menu in the task pane.
- The **View report** option from a report right-click menu in the task pane.

For information about the latest release of Cognos for Microsoft Office, see [this article](#).





