IBM Cloud Pak for Business Automation Demos and Labs

Operational Intelligence

IBM Business Automation Insights

Build Business Performance Center Dashboard

CP4BA 2023.0.1 IF 2

Lab version: 1.1

Paul Pacholski

pacholsk@ca.ibm.com

Table of Contents

1 Lab Introduction

In the lab, you will learn how to build and use the Business Performance Center to create dashboards and provide insights into a Client Onboarding solution for a line of business users.

1.1 Introduction to IBM Business Automation Insights

IBM Business Automation Insights (BAI) processes event data from the connected IBM Business Automation products so that you can derive insights into the performance of your business. You can use this data to drive automation and visualize the state of the KPIs in dashboards that matter most to the line of business in near real-time.

See a high-level BAI architecture in the figure below. Additional technical information is available in the Appendix of this lab guide.

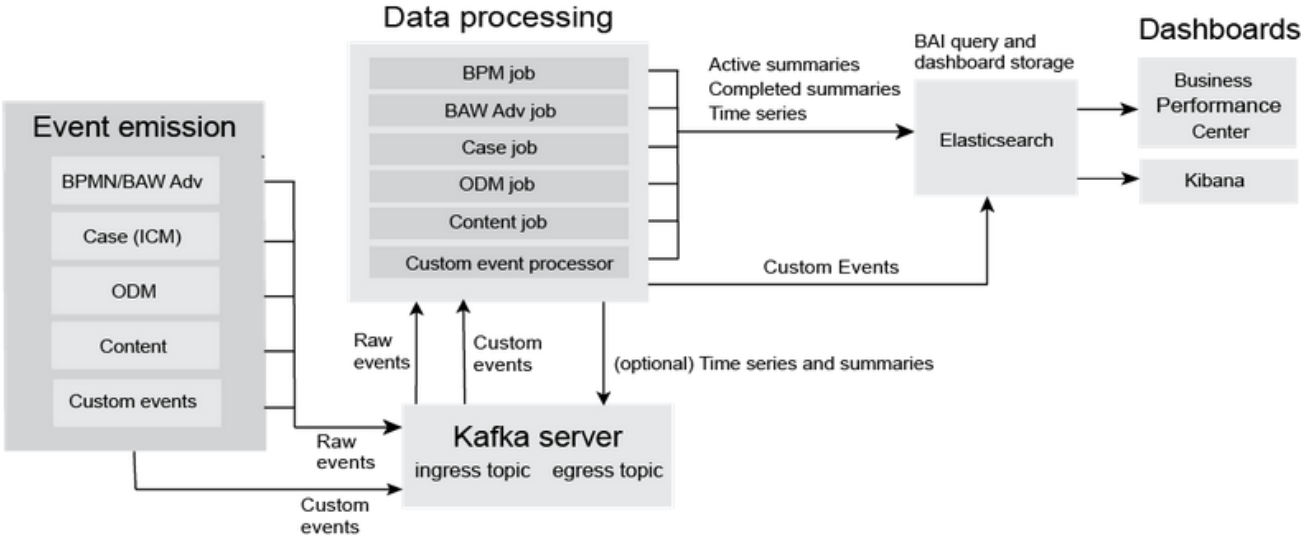


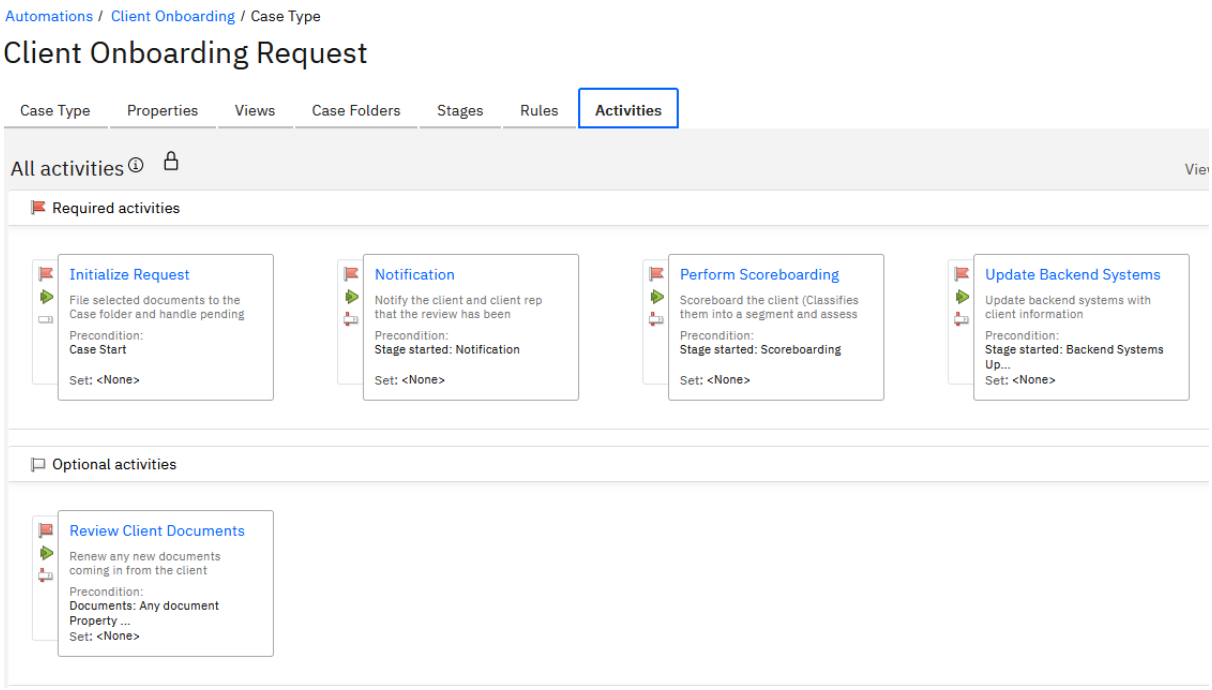
Figure 1. IBM Business Automation Insights Architecture

Business Performance Center (BPC), shown in Figure 1 above, is the no-code business monitoring application native to IBM Cloud Pak for Business Automation. Using BPC business users (with no IT assistance) can:

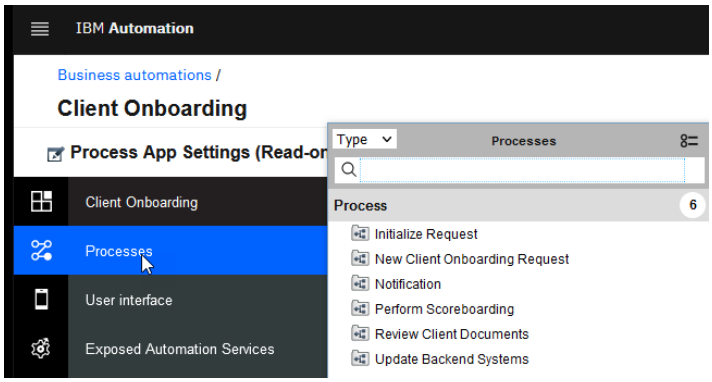
- Design and share dashboards in minutes that capture business data in near real-time and provide awareness of essential business activities and processes.
- Prepare, track, and design visualizations of metrics, key performance indicators (KPIs), and other business performance measurements in customizable dashboards.

1.2 Lab Overview

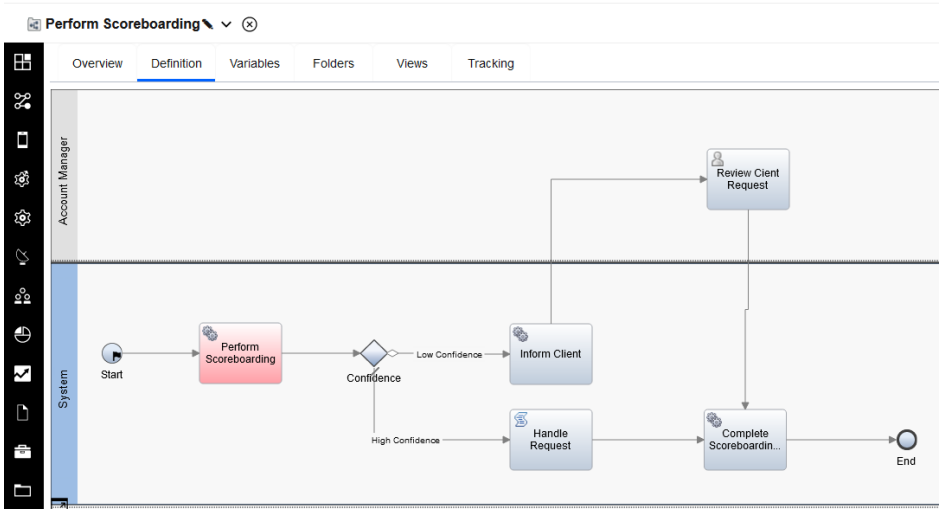
The solution used during the labs is the *Client Onboarding* workflow automation implemented as a Case with several BPMN processes implementing case activities. The automation contains a single Case Type *Client Onboarding Request,* which includes activities that need to be performed, data, documents, and conditions that drive the processing.



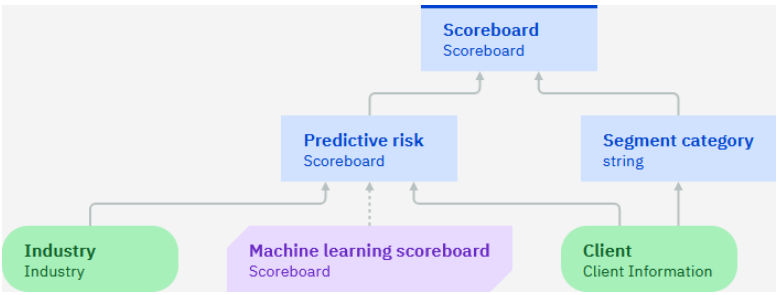
BPMN processes (shown below) implement all five Case Activities above in an automatically generated Process App (Client Onboarding).



The *Perform Scoreboarding* Activity (highlighted red below) is particularly interesting. It uses Automation Services to invoke Scoreboard decisions implemented using Automation Decision Services (ADS).



The Scoreboard ADS decision determines if a client is risky using a Machine Learning-based predictive model and classifies the client into a segment.



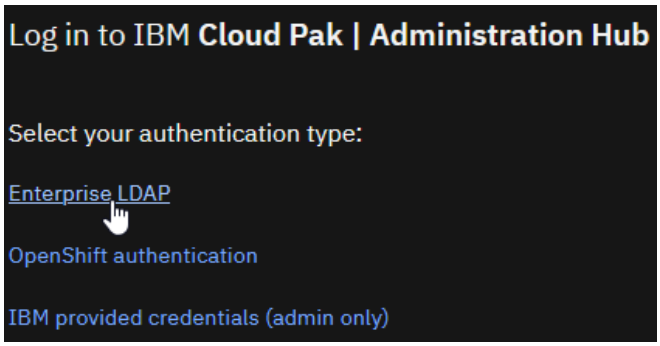
When authoring one of the Charts on the Dashboard, you will use data generated by the above decision.

1.3 Lab Setup Instructions

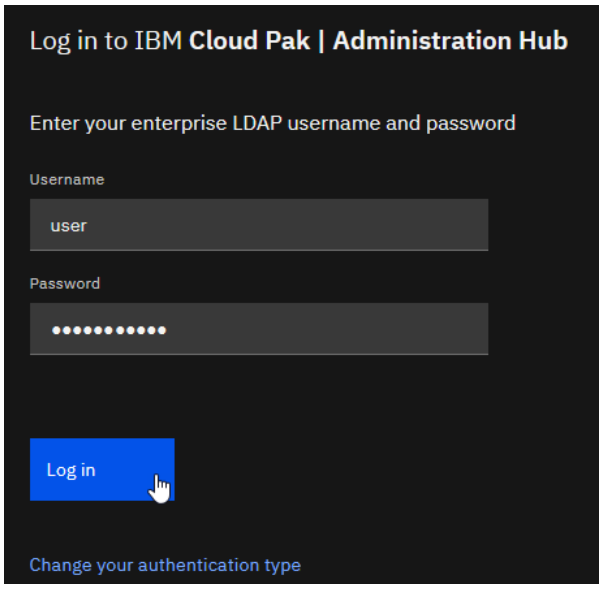
If you are performing this lab as part of an IBM event, access the document that lists the available systems, URLs, and login instructions. You will need to access the IBM Business Performance Center for this lab.

_1. Paste the Business Performance Center URL to your web browser.

Select the **Enterprise LDAP** login option.



_2. Enter the *Username* and *Password* supplied to you and then click **Log in**.

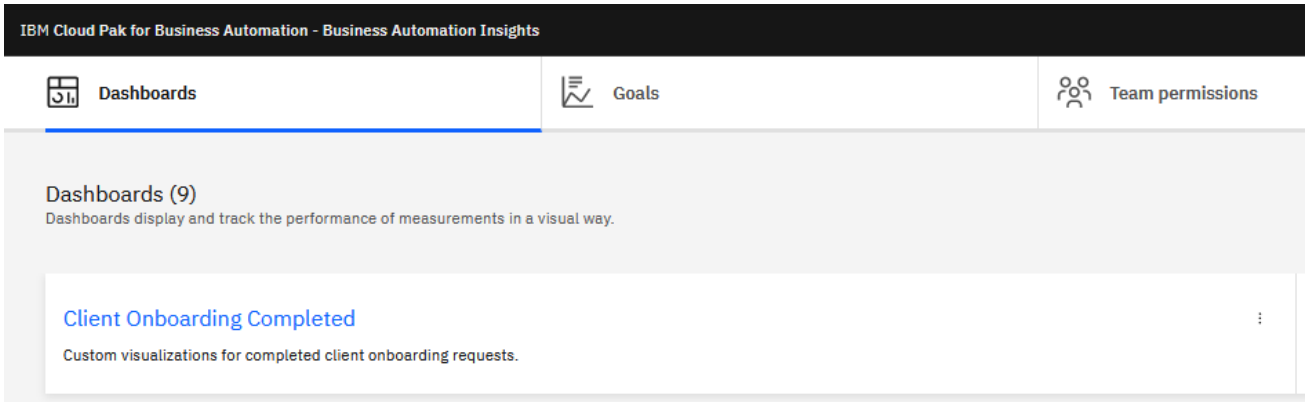


2 Exercise: Create a Client Onboarding Workflow Dashboard

2.1 Introduction

In this lab exercise, you will use BPC to create a business dashboard to enable a business user to get near real-time business insight into the *Client Onboarding* workflow.

In addition to built-in dashboards delivered with BPC that provide you with many great generic charts for workflow, decisions, and content, a reference version of the Dashboard specific to the Client Onboarding business metrics and KPIs that you will build in the lab exercise (called **Client Onboarding Completed**) has already been created for you.



If you like, you can refer to it when building your dashboard version.

Note that BAI events were already generated for you. But, since you are using a live shared environment with you and other users working on Client Onboarding cases, you may see new events arriving as you author your Dashboard. Consequently, some screenshots in the lab instructions may not look the same as your environment.

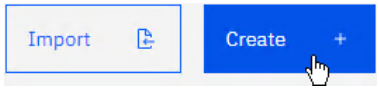
2.2 Exercise Instructions

In this lab exercise, you will author and configure the following BPC artifacts:

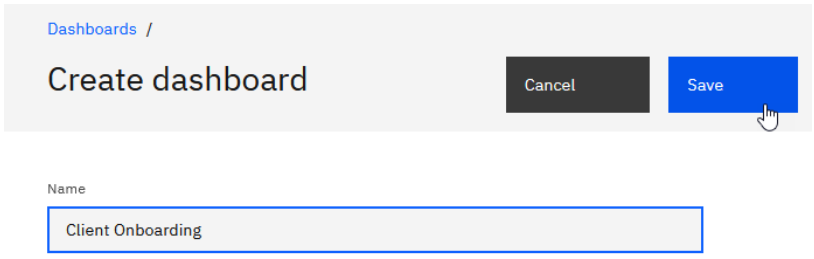
- Client Onboarding **Dashboard**
- **Charts** used in the Client Onboarding dashboard
- A chart **Alert**
- A **Goal** to aggregate related charts

2.2.1 Create a Dashboard

_1. Click **Create +**



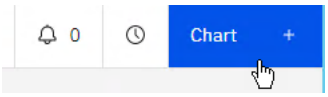
_2. For *Name,* enter **Client Onboarding** and click **Save.**



2.2.2 Create "Average Revenue from Service Fees for Approved Clients" Chart

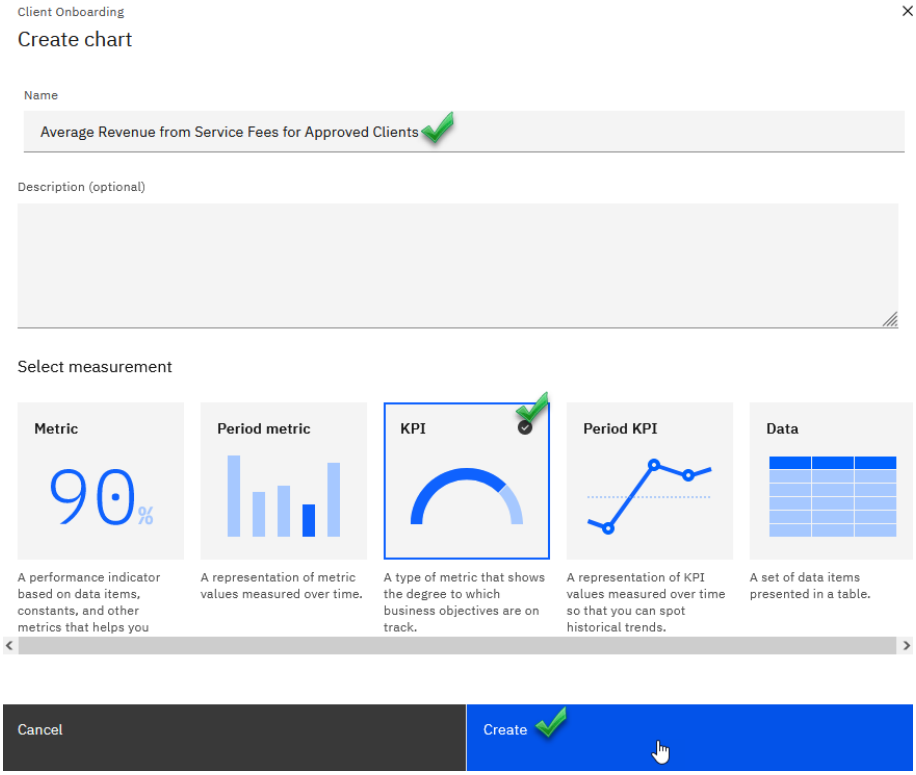
This gauge chart will show the average revenue from service fees for approved clients.

_1. Click **chart +**



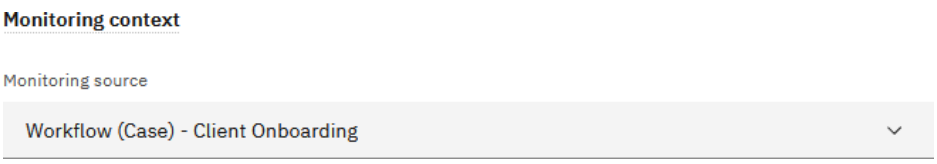
Enter the following and then click **Create**

Item	Value
Name	Average Revenue from Service Fees for Approved Clients
Select measurement	KPI



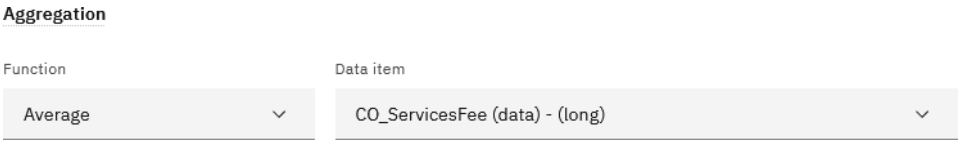
2.2.2.1 Define Monitoring Information

_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**



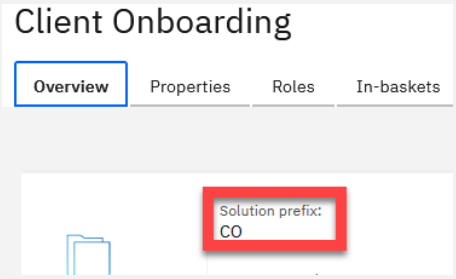
This will select events from the Client Onboarding workflow.

_2. In *Aggregation,* for *Function,* select **Average,** and *Data item,* choose **CO_ServicesFee (data) – (long)**

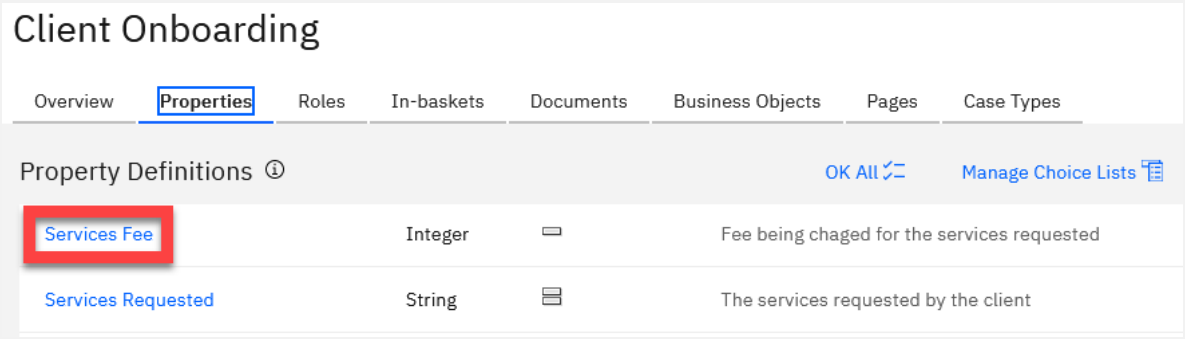


Note. If you wonder where this Case property comes from, read the explanation below.

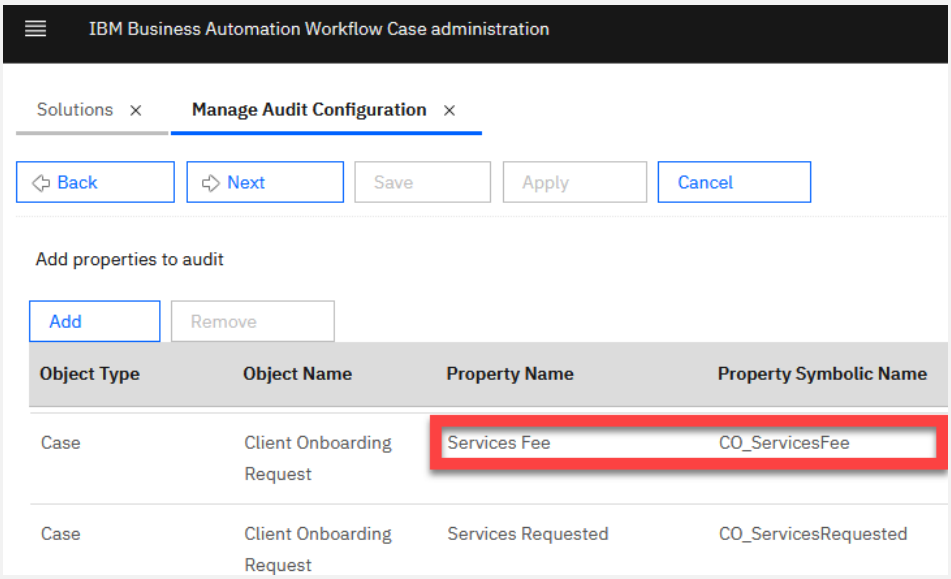
The CO prefix in CO_ServicesFee is the Client Onboarding Solution prefix.



ServicesFee in CO_ServciesFee is the name of the Client Onboarding case property.



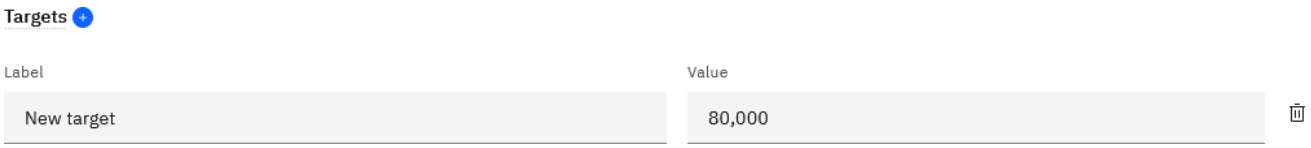
For the BAI Case Emitter to add this property to the emitted events, the Client Onboarding Audit Configuration includes this property.



Let's continue with the lab instructions.

_3. Click **Targets +**

_4. For *Value,* enter **80000**

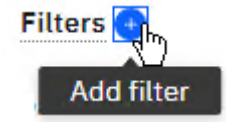


2.2.2.2 Define Filter Data

When selecting the Monitoring source, you specified **Workflow (Case) – Client Onboarding.** This setting allows you to work with the instances of the Client Onboarding workflow. Filters allow you to select specific data you want to display in your chart.

_1. Select the **Filters** tab.

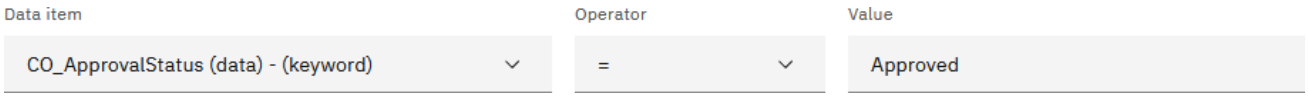
_2. Click the **Filter +** button.



_3. Select the following values from the dropdown list:

Item	Value
Data item	CO_ApprovalStatus (data) – (keyword)
Operator	=
Value	Approved

Your Filter setting should look exactly like this:



2.2.2.3 Define Visualization

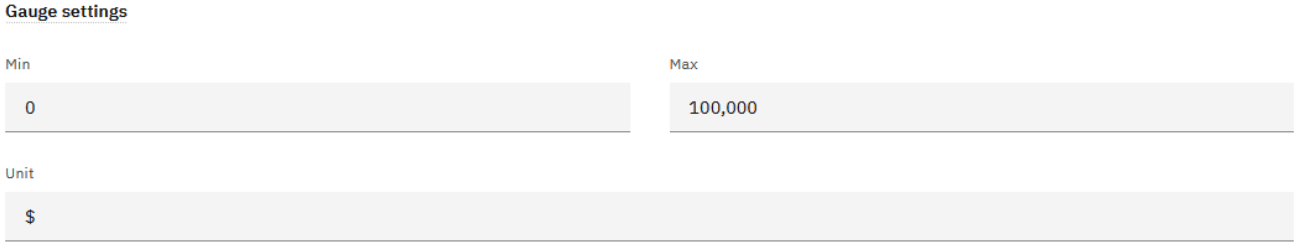
This setting allows you to customize your Chart display settings.

_1. Select the **Visualization** tab.

_2. Enter the following values:

Item	Value
Min	0
Max	100000
Unit	$

Your Gauge setting should look exactly like this:



2.2.2.4 Define Thresholds

This setting allows you to customize the Gauge threshold setting.

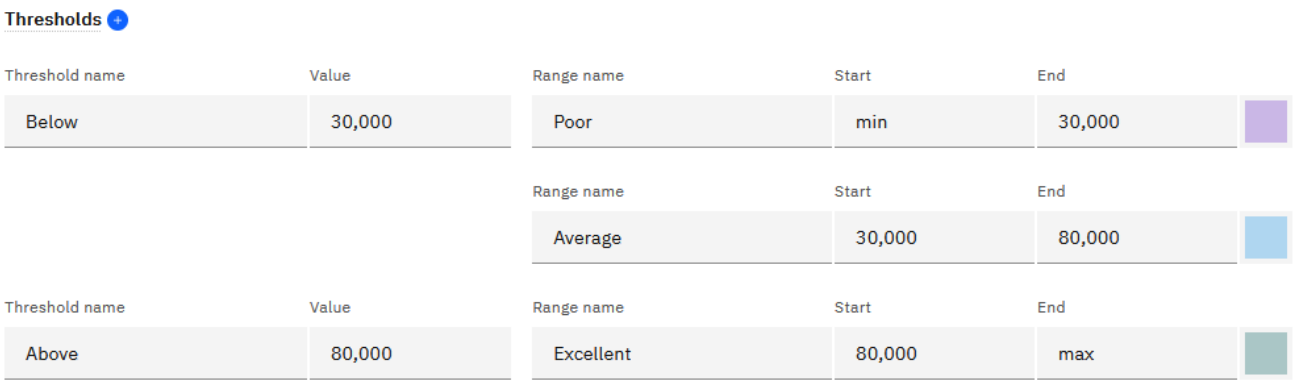
_1. Select the **Thresholds** tab.

_2. Click the **Thresholds +** button **two times**.

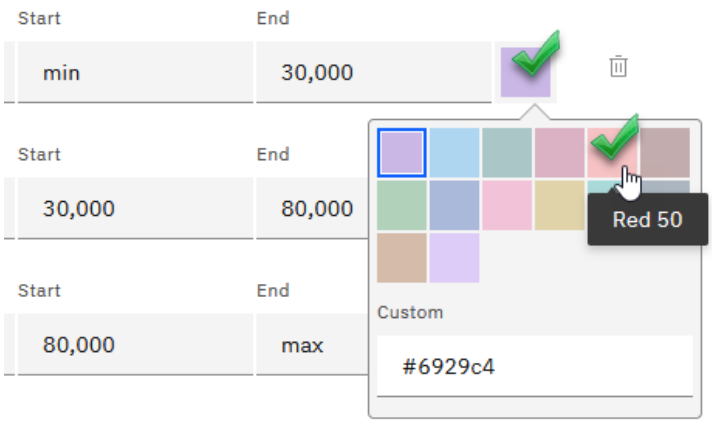
_3. For each group, enter the following values:

s	Data item	Value
1	Threshold name	Below
	Value	30000
	Range name 1	Poor
	Range name 2	Good
2	Threshold name	Above
	Value	80000
	Range name	Excellent

Your Thresholds setting should look exactly like this:



_4. Click the color patch next to 30,000 and then select the **Red color patch** from the palette.

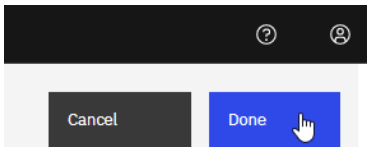


_5. Using the above steps, customize the other two colors.

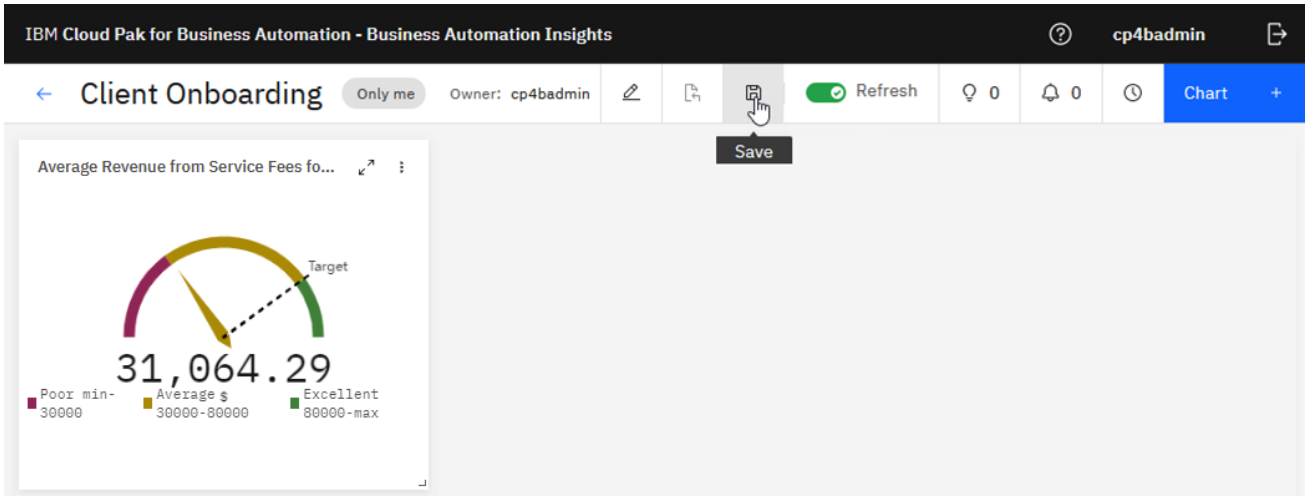
Item	Value
80,000	Yellow
max	Green

The color settings should look exactly like this:

_6. Click **Done**



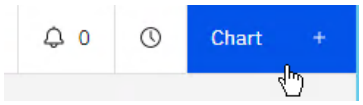
_7. Click the **Save icon** on the toolbar above the Dashboard to save your work!



2.2.3 Create "Approvals by Industry" Chart

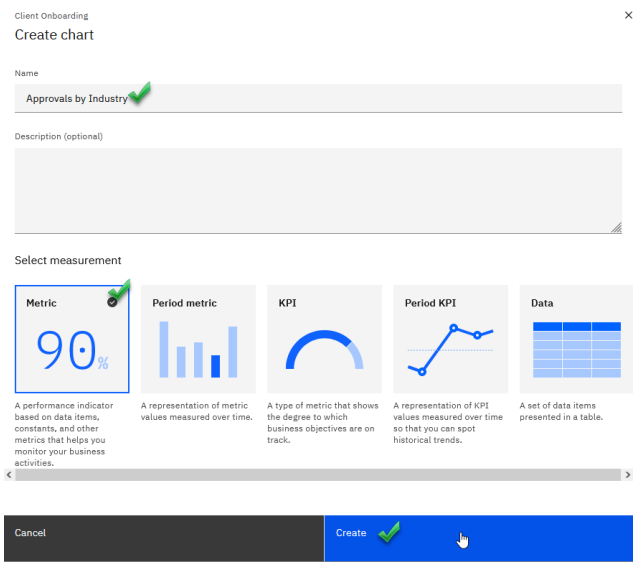
This hierarchical pie chart will show the state of each industry's approvals (Approved, Rejected, Under Review).

_1. Click **Chart +**



_2. Enter the following and then click **Create**

Item	Value
Name	Approvals by Industry
Select measurement	Metric



2.2.3.1 Define Monitoring Information

_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**

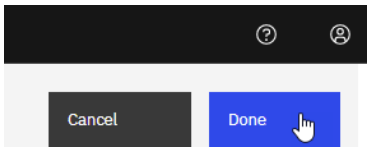
_2. Click the **Group by +** button two times.

_3. Enter the following values for the *Group by* entries:

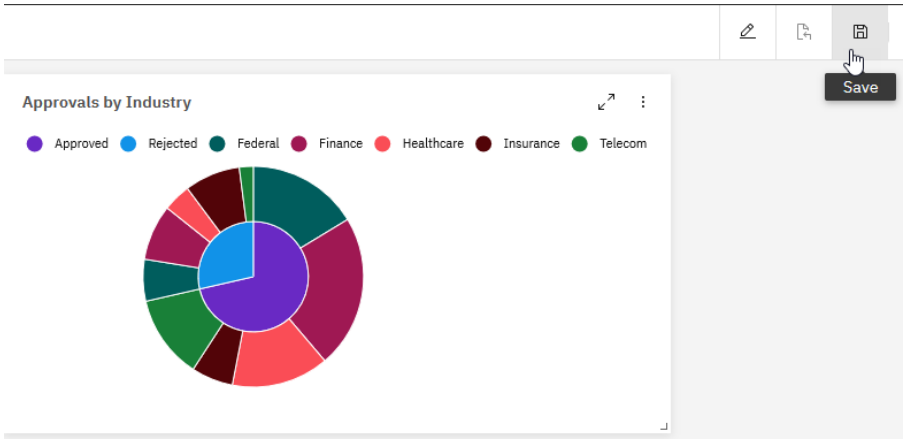
Item	Value
1	CO_ApprovalStatus (data) – (keyword)
2	CO_Industry (data) – (keyword)

_4. For the chart, type select **Hierarchical pie.**

_5. Click **Done**



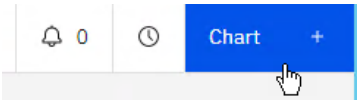
_6. Click the **Save** icon on the toolbar above the Dashboard to save your work!



2.2.4 Create "Services Subscription by Industry with Drilldowns" Chart

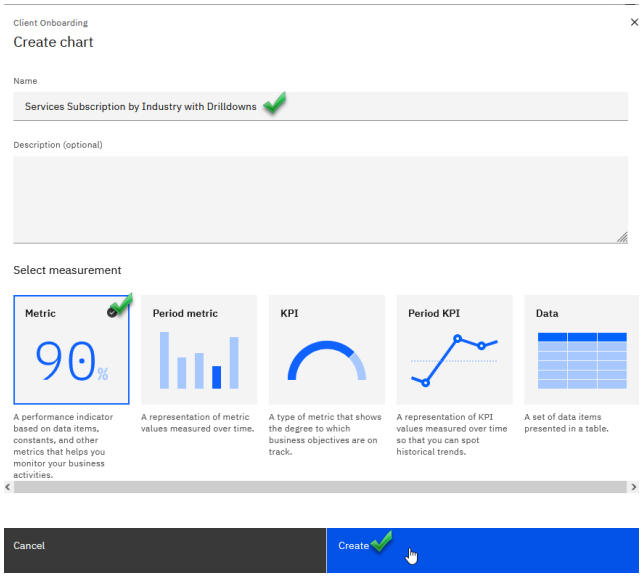
This pie chart will show the service subscriptions by industry. Another feature of this chart is drilling down by service > industry > country.

_1. Click **Chart +**



_2. Enter the following and then click **Create**.

Item	Value
Name	Services Subscription by Industry with Drilldowns
Select measurement	Metric



2.2.4.1 Define Monitoring Information

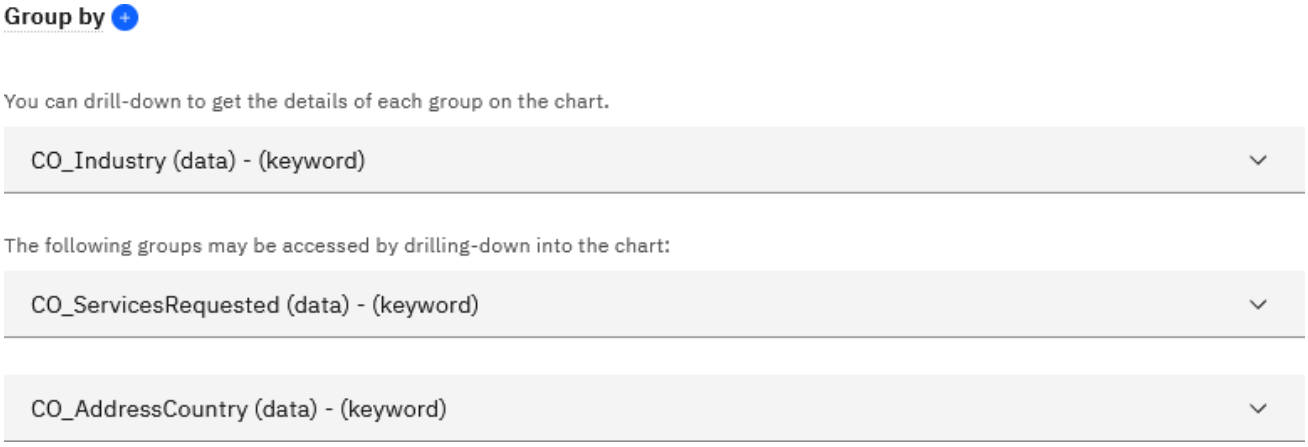
_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**

_2. Click the **Group by +** button three times.

_3. Enter the following values for the *Group by* entries:

Item	Value
1	CO_Industry (data) – (keyword)
2	CO_ServiceRequested (data) – (keyword)
3	CO_AddressCountry (data) – (keyword)

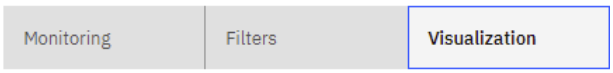
_4. Drill-down groups should look exactly like this:



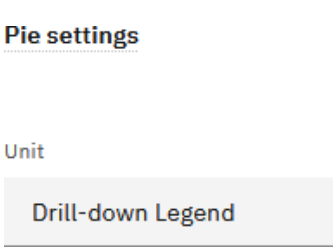
_5. For chart type, select **Pie** (this should be the default)

2.2.4.2 Define Visualization Information

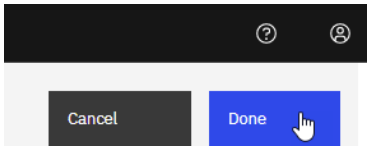
_1. Click the **Visualization** tab.



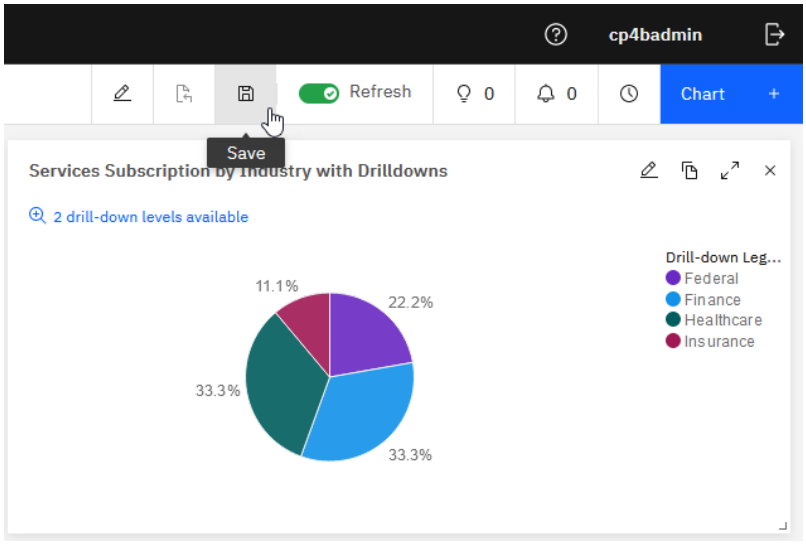
_2. For *Pie settings > unit,* enter **Drill-down Legend.**



_3. Click **Done**

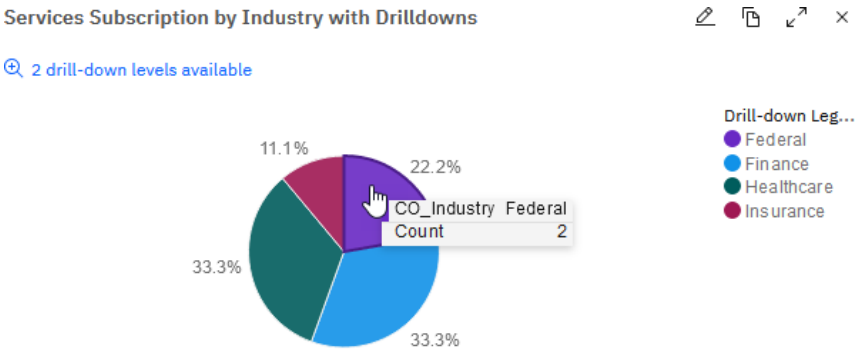


_4. Click the **Save ico**n on the toolbar above the Dashboard to save your work!

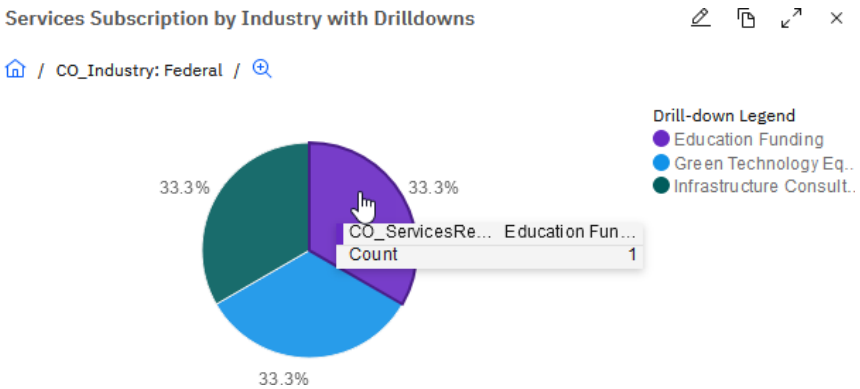


2.2.4.3 Explore Drill-down capability

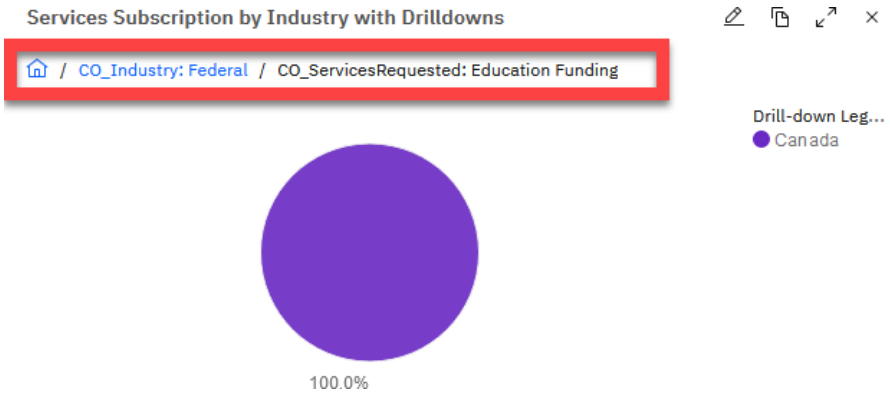
_1. Select the first drill-down level by clicking on **Federal (purple)** Industry.



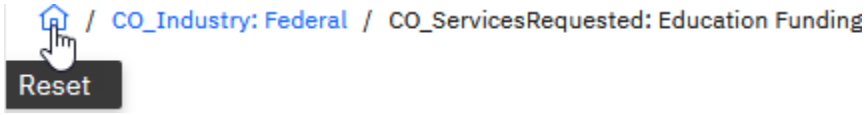
_2. Select the second drill-down level by clicking on **Education Funding (purple)** Service



_3. You should now see all the countries for *Federal > Education Funding* grouping shown on the readcrumbs,



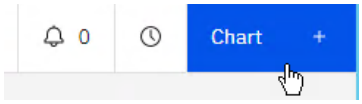
_4. Click **Reset** to get back to the original view.



2.2.5 Create "Highest Service Fee by Industry Sector" Chart

This bar chart will show the highest service fee by industry sector.

_1. Click **chart +**



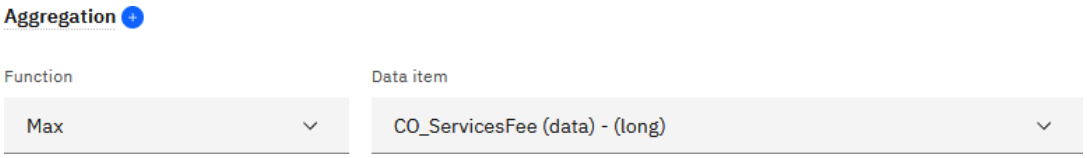
_2. Enter the following and then click **Create.**

Item	Value
Name	Highest Service Fee by Industry Sector
Select measurement	Metric

2.2.5.1 Define Monitoring Information

_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**

_2. In *Aggregation,* for *Function* select **Max** and for *Data item* select **CO_ServicesFee(data) – (long)**



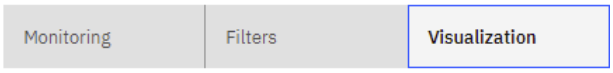
_3. Click **Group by +** button.

_4. Enter **CO_Industry (data) – (keyword)**

_5. For chart type, select **Bar**

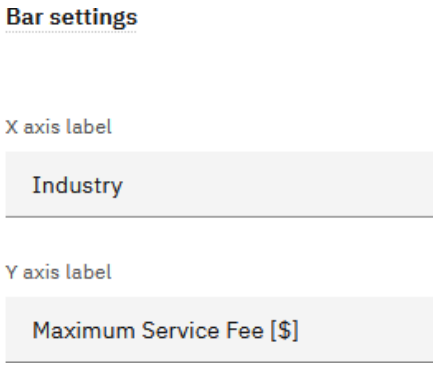
2.2.5.2 Define Visualization Information

_1. Click **Visualization** tab

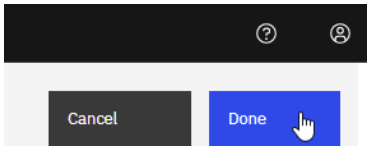


_2. For *Bar settings*, enter:

Item	Value
X-axis label	Industry
Y-axis label	Maximum Service Fee [$]

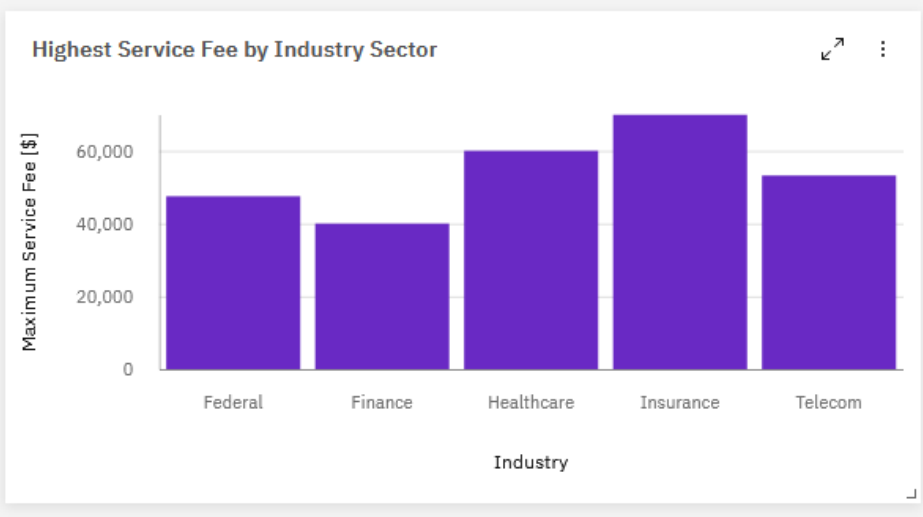


_3. Click **Done**



_4. Click the **Save** icon on the toolbar above the Dashboard to save your work!

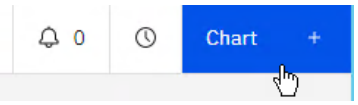
_5. Your chart should look similar to this:



2.2.6 Create "Approval Count of High-Risk Cases" Chart

This bar chart will show the approval counts for high-risk cases in a given period. High-risk cases are identified by the decision service (which uses a Machine Learning (ML) service to score risk level). This is an essential metric, indicating that the approver overrode the ML model decision. Therefore, the ML model may be inaccurate and need re-training.

_1. Click **Chart +**



_2. Enter the following and then click **Create.**

Item	Value
Name	Approval Count of High-Risk Cases
Select measurement	Period metric

2.2.6.1 Define Monitoring Information

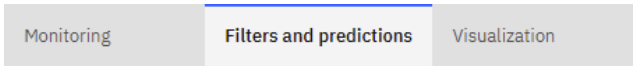
_1. For *Monitoring source,* select Workflow (Case) – Client Onboarding.

_2. On *Interval,* change the setting to **Minutes(s)**

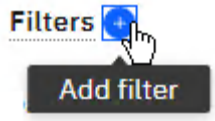
_3. For chart type, select **Bar**

2.2.6.2 Define Filters and Predictions

_1. Select **Filters and predictions** tab



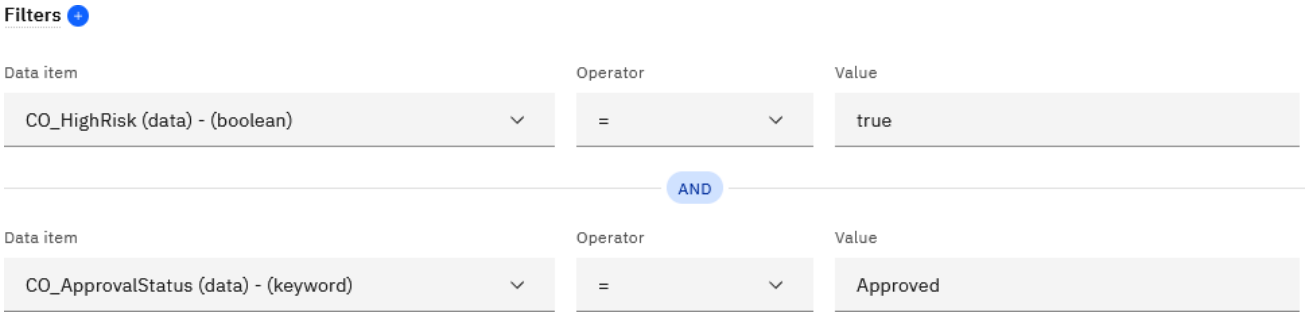
_2. Click the **Filter +** button **twice** to add two filters.



_3. For each group, select the following values from the dropdown list:

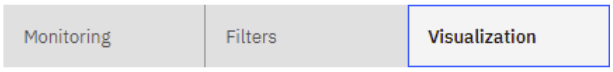
Group	Data item	Operator	Value
1	CO_HighRisk (data) – (boolean)	=	true
2	CO_ApprovalStatus (data) – (keyword)	=	Approved

Your Filters setting should look exactly like this:



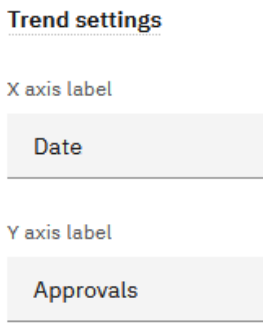
2.2.6.3 Define Visualization Information

_1. Click **Visualization** tab

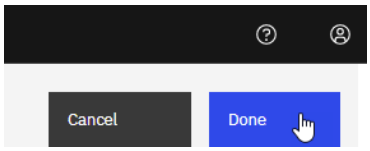


_2. For *Bar settings*, enter:

Item	Value
X-axis label	Date
Y-axis label	Approvals

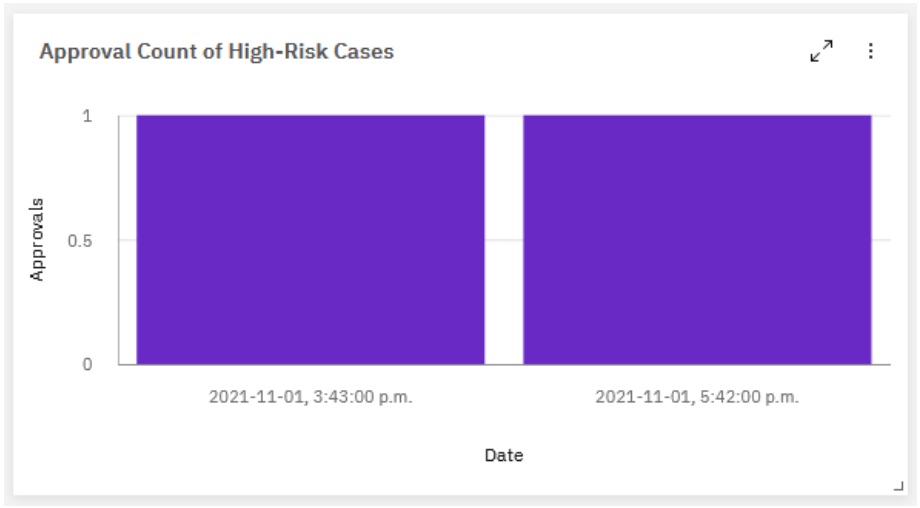


_3. Click **Done**



_4. Click the **Save** icon on the toolbar above the Dashboard to save your work!

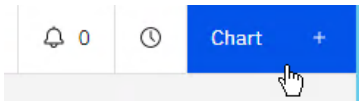
_5. Your chart should look similar to this.



2.2.7 Create "Average Approval Confidence by Industry Sector and Revenue" Chart

You will now create a bubble chart. The bubble color will indicate the industry. The bubble size will indicate how many cases were under a given industry. The bubbles will be positioned in a grid with X-Axis as the average revenue and Y-Axis as the average approval confidence level.

_1. Click **Chart +**



_2. Enter the following and then click **Create.**

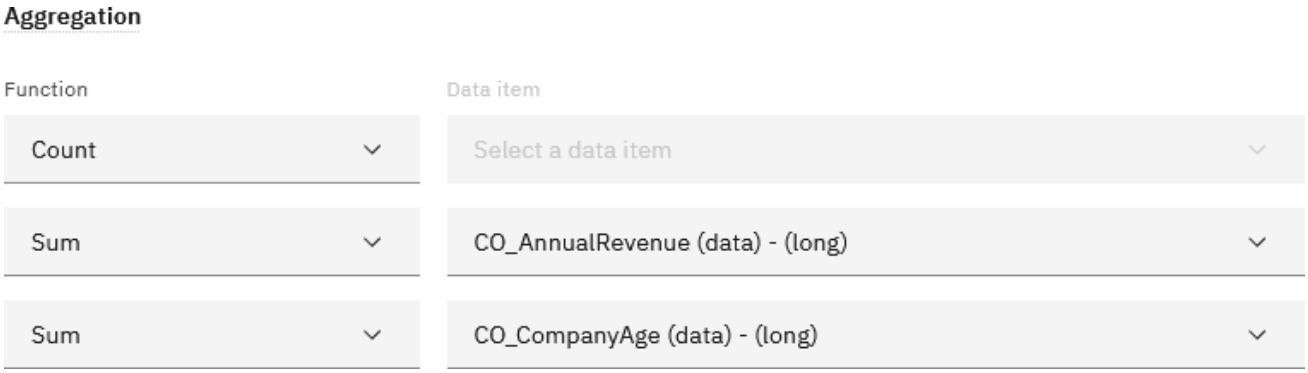
Item	Value
Name	Average Approval Confidence by Industry Sector and Revenue
Select measurement	Metric

2.2.7.1 Define Monitoring Information

_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**

_2. Click the **Aggregation +** button **twice** to add two aggregations.

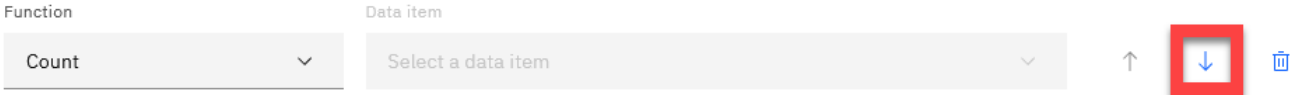
Note that two Aggregations were added below Count



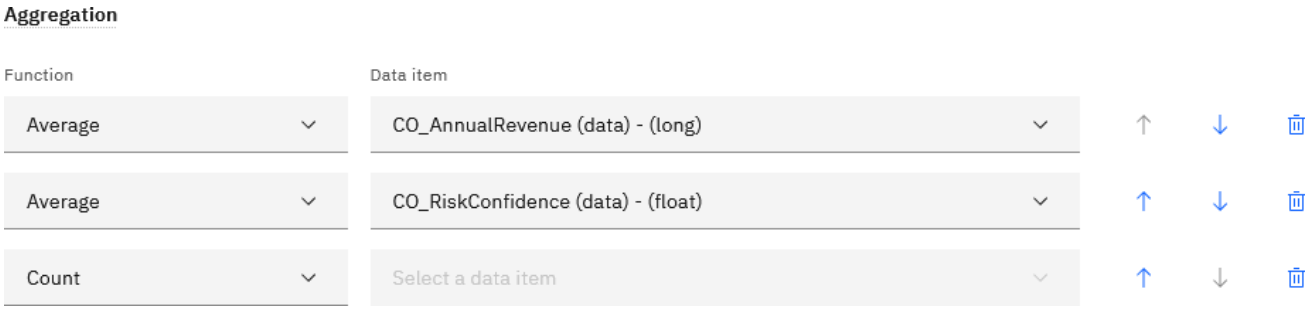
_3. For the two new aggregations, select the following values from the dropdown list:

Aggregation	Function	Data item
2	Average	CO_AnnualRvenue (data) – (long)
3	Average	CO_RiskConfidence(data) – (float)

_4. Use the **Down Arrow** on the Count aggregation to move it to the bottom (make it the last Aggregation).



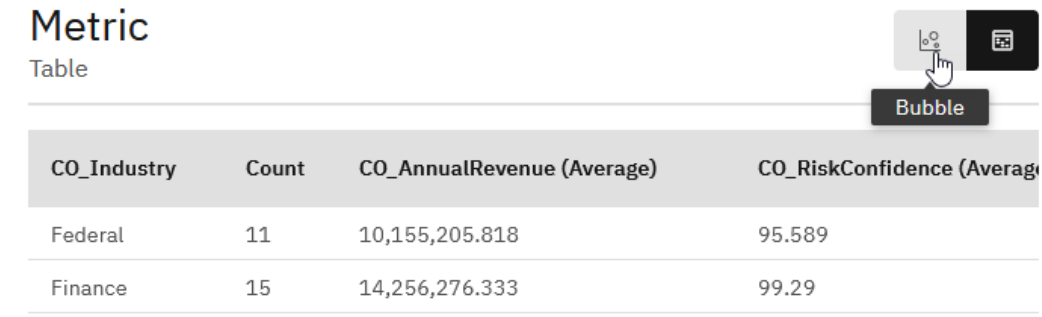
Your aggregations setting should look exactly like this:



_5. Click **Group by +** button.

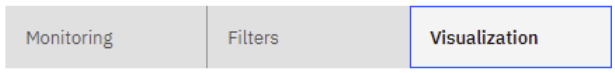
_6. Select **CO_Industry (data) – (keyword)**

_7. Click the **Bubble** icon to change the visualization.



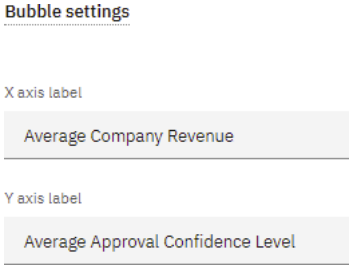
2.2.7.2 Define Visualization Information

_1. Click **Visualization** tab

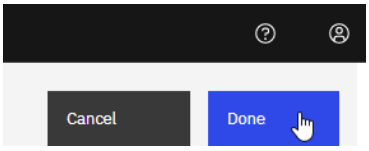


_2. For Bubble settings, enter:

Item	Value
X-axis label	Average Company Revenue
Y-axis label	Average Approval Confidence Level

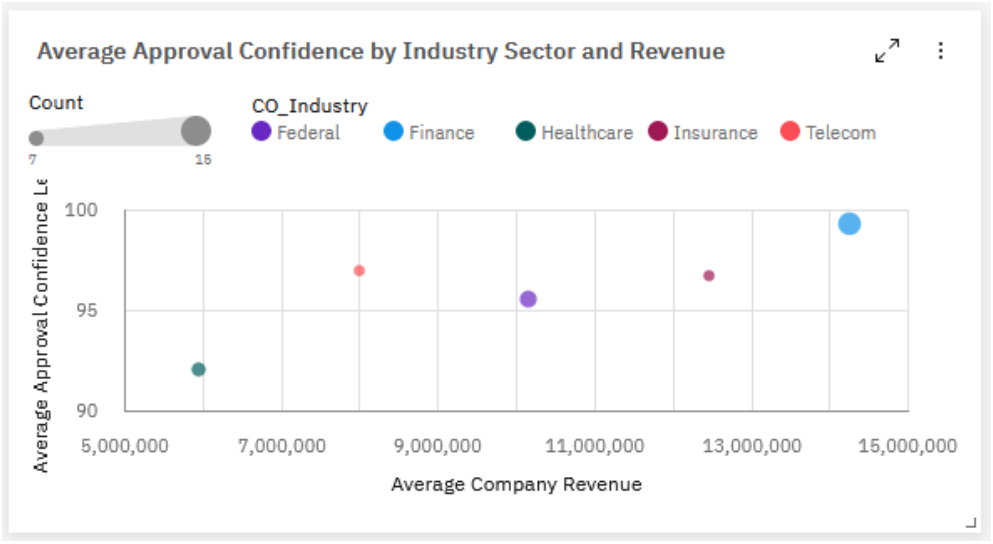


_3. Click **Done**



_4. On the toolbar about the Dashboard, click the **Save** icon to save your work!

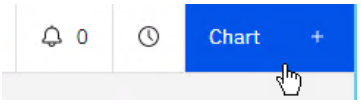
_5. Your chart should look similar to this.



2.2.8 Create "Activity Duration Distribution in Case Completion" Chart

This doughnut chart will show the average time distribution among all activities required to complete a case.

_1. Click **Chart +**



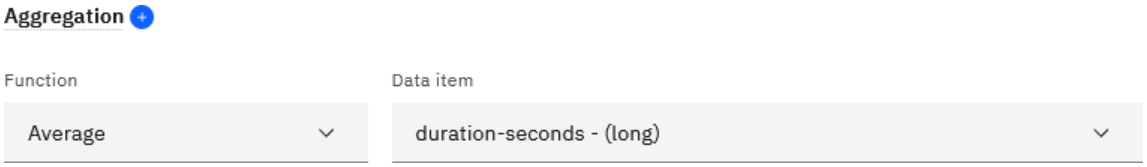
_2. Enter the following and then click **Create.**

Item	Value
Name	Activity Duration Distribution in Case Completion
Select measurement	Metric

2.2.8.1 Define Monitoring Information

_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**

_2. Change the Aggregation values by setting *Function* to **Average** and *Data item* to **duration-seconds – (long)**



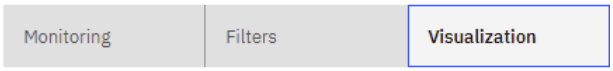
_3. Click **Group by +** button

_4. Select **task-name – (keyword)**

_5. Set visualization type to **Donut**

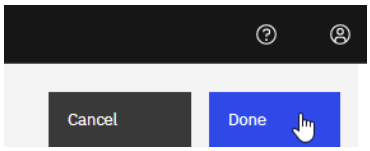
2.2.8.2 Define Visualization Information

_1. Click **Visualization** tab



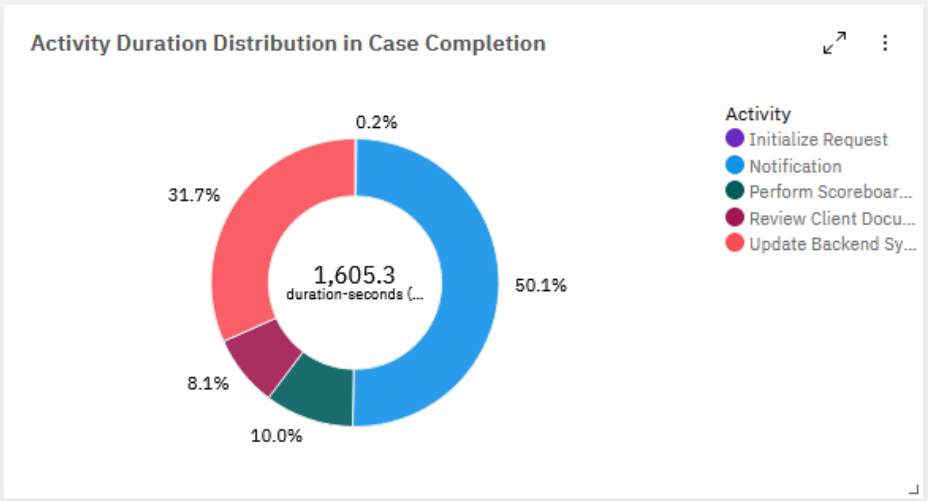
_2. For *Donut settings*, set *Unit* to **Activity.**

_3. Click **Done**



_4. Click the **Save** icon on the toolbar above the Dashboard to save your work!

_5. Your chart should look similar to this.



2.2.9 Create "Completed Cases per Day" Chart

This bar chart will show the number of cases completed in a time period.

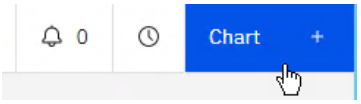
Note that the title states "per Day," but given the data set used for this lab, the scale is "per Minute."

This chart will also include two advanced features:

- **Predictions** – predicts the number of cases completed in the future using one of the below algorithms. This is a very valuable tool to enable capacity human resources planning.
- **Alerts** – provide visual indications when the number of cases completed falls below 2 in a given time period.

Note that depending on the data, KPI Predictions use one of the following algorithms: ARIMA, Seasonal ARIMA, or Exponential Smoothing.

_1. Click **Chart +**



_2. Enter the following and then click **Create.**

Item	Value
Name	Completed Cases per Day
Select measurement	Period KPI

2.2.9.1 Define Monitoring Information

_1. For *Monitoring source,* select **Workflow (Case) – Client Onboarding**

_2. On *Interval,* change the setting to **Minutes(s)**

_3. Click **Targets +** button

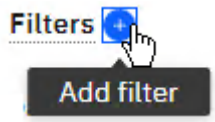
_4. For *Label,* enter **Target,** and for *Value,* enter **3**

_5. For visualization, select **Bar**

2.2.9.2 Define Filters

_1. Select the **Filters and predictions** tab

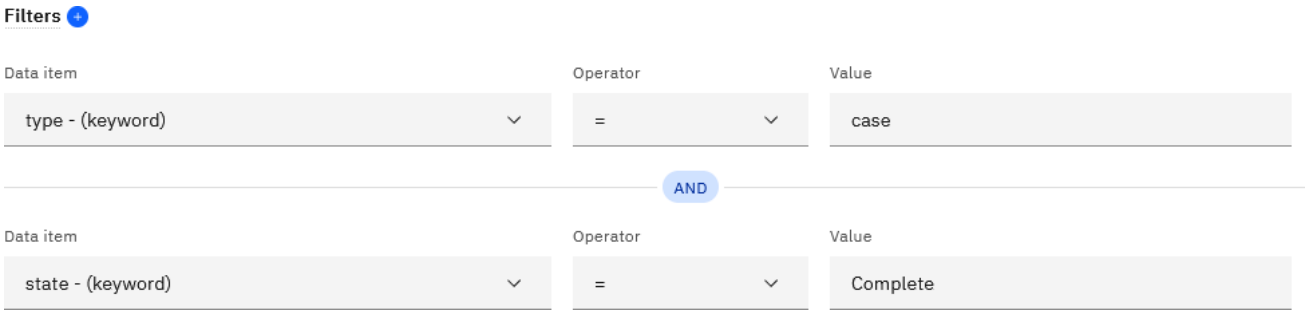
_2. Click the **Filter +** button twice to add two filters



_3. Select the following values for each Filter:

Filter	Data item	Operator	Value
1	type – (keyword)	=	case
2	state – (keyword)	=	Complete

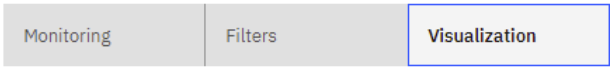
Your Filter setting should look exactly like this:



_4. Under **Prediction**, enable the slider to turn them on.

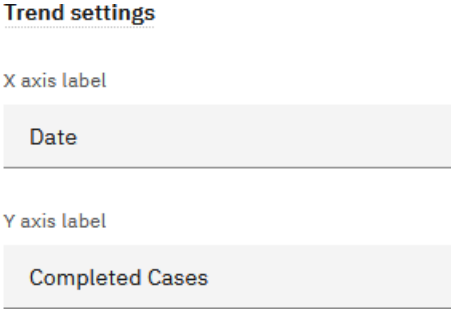
2.2.9.3 Define Visualization Information

_1. Click the **Visualization** tab



_2. For Trend settings, enter:

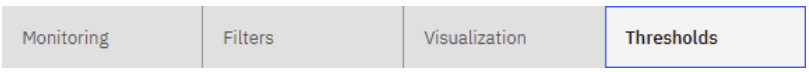
Item	Value
X-axis label	Date
Y-axis label	Completed Cases



2.2.9.4 Define Thresholds

This setting allows you to customize the Gage threshold setting.

_1. Select **Thresholds** tab.

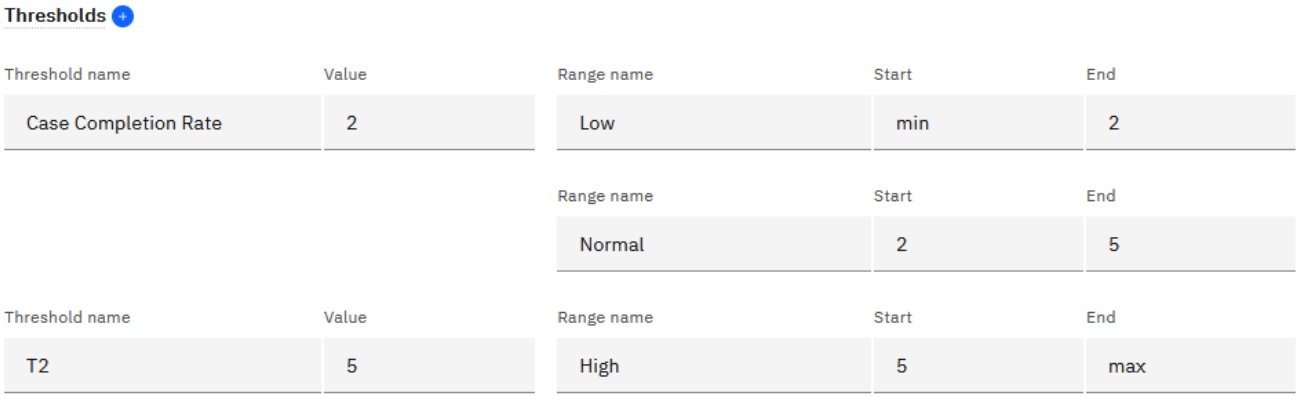


_2. Click the **Thresholds +** button **twice t**o add two thresholds.

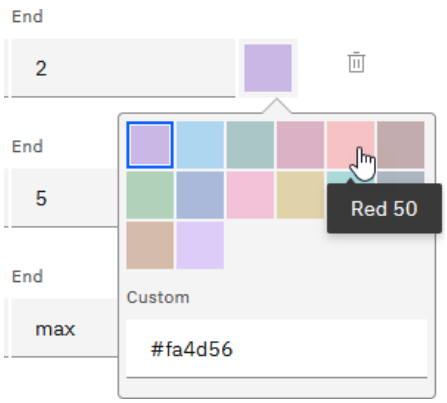
_3. For each group select the following values from the dropdown list:

Threshold	Data item	Value
1	Threshold name	Case Completion Rate
	Value	2
	Range name 1	Low
	Range name 2	Normal
2	Threshold name	T2
	Value	5
	Range name	High

Your Thresholds setting should look exactly like this:



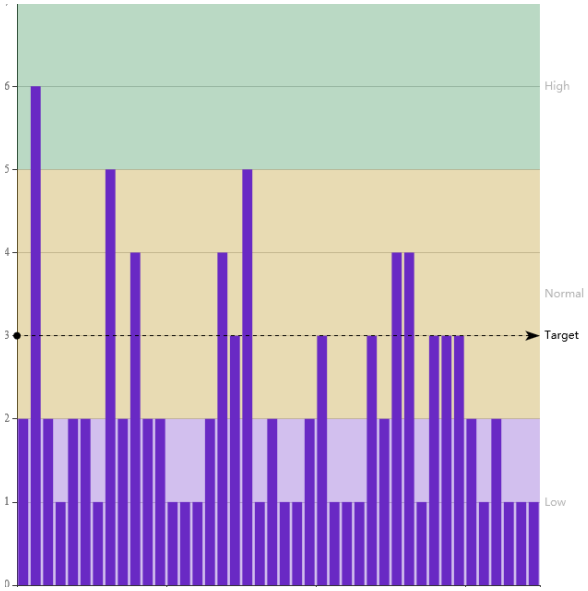
_4. Click the **Color patch** next to **Low**, then select the **Red color patch** from the palette.



_5. Using the above steps, customize the other two colors.

Item	Value
Normal	Yellow
High	Green

_6. The color settings should look exactly like this:



2.2.9.5 Define Alert

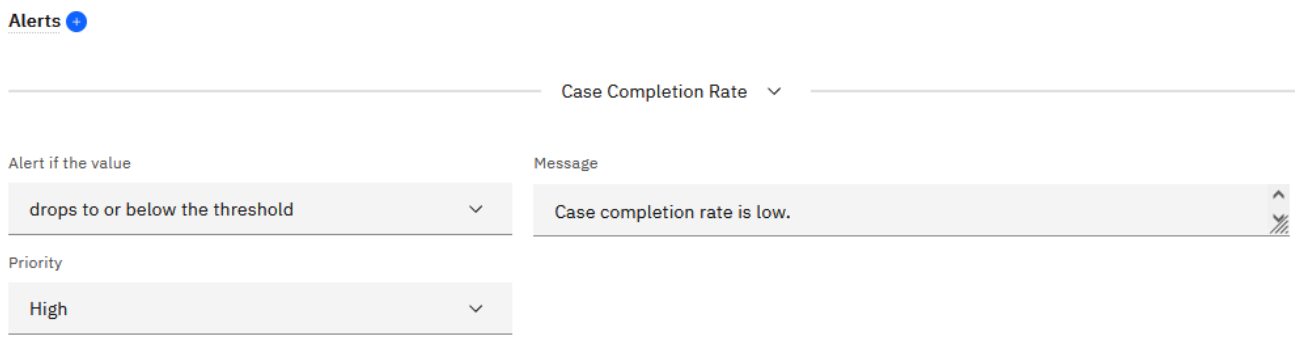
This setting allows you to customize the Gage threshold setting.

_1. Click Alerts +

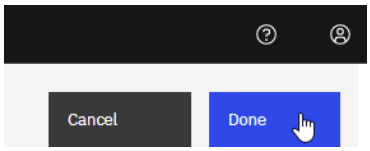
_2. Make sure the threshold **Case Completion Rate** is selected.

_3. Configure the Alert using the input values shown below:

Item	Value
Alert if the value	drops to or below the threshold
Message	The case completion rate is low.



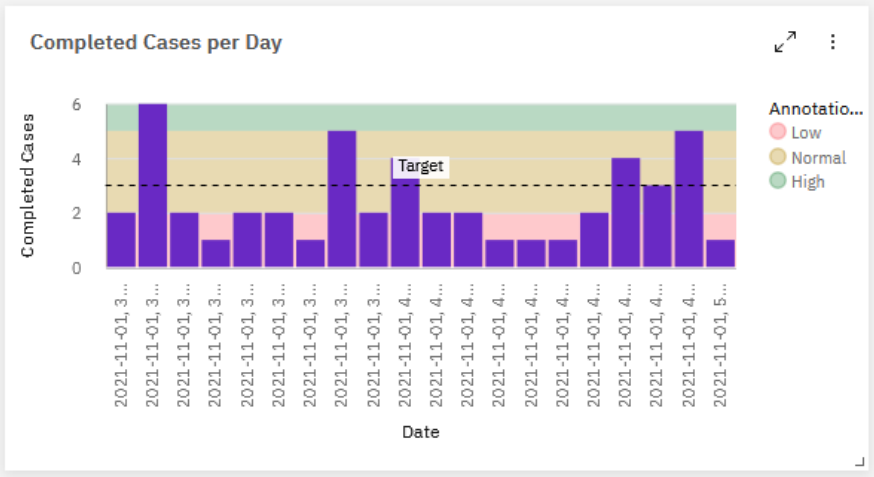
_4. Click **Done**



Note some alerts may appear temporarily on the right side of the Dashboard. This is expected.

_5. Click the **Save** icon on the toolbar above the Dashboard to save your work!

_6. Your chart should look similar to this.

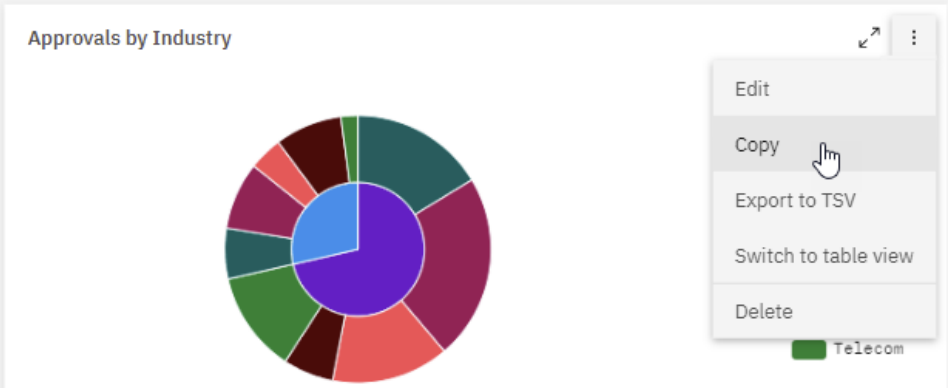


2.2.10 Create "Approvals by Industry Heatmap" Chart

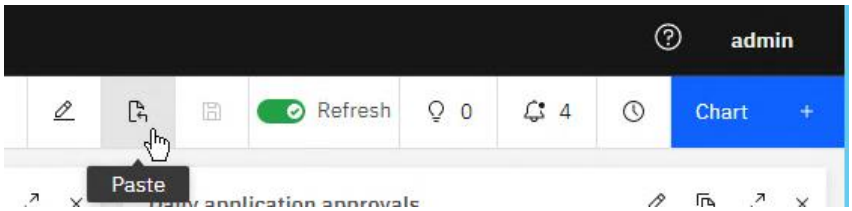
This heatmap chart will use the tile color intensity to indicate the count (the more saturated the color, the higher the count). The tiles will be positioned in a grid. The X-Axis will represent the approvals state: approved/rejected/approval pending. The Y-Axis will reflect the industry.

Since this chart is almost identical to the *Approval by Industry* chart, we will use the copy-and-paste technique to create this chart from the *Approvals by Industry* chart.

_1. On the *Approvals by Industry* chart, click the **ellipses** and select **Copy**.



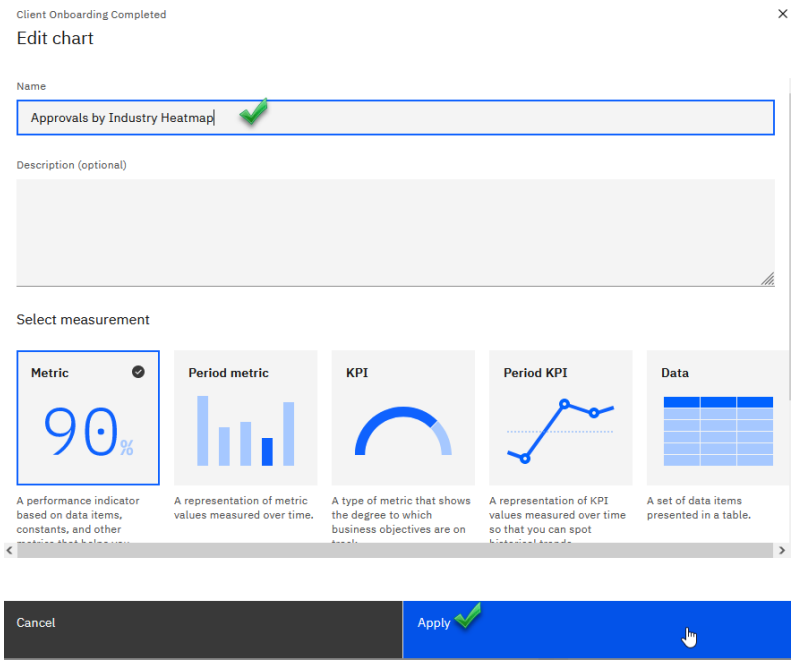
_2. On the toolbar above the Dashboard, click **Paste**.



_3. On the *copy of Approval by Industry* chart, click the **ellipses** and select **Edit**.

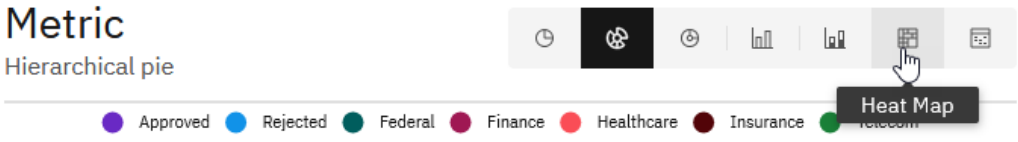
_4. Next to the chart name, click **Edit configuration**.

_5. For *Name,* enter **Approvals by Industry Heatmap** and then click **Apply**.

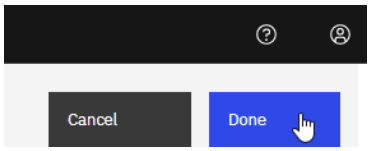


2.2.10.1 Define Monitoring Information

_1. For visualization, select **Heat Map**

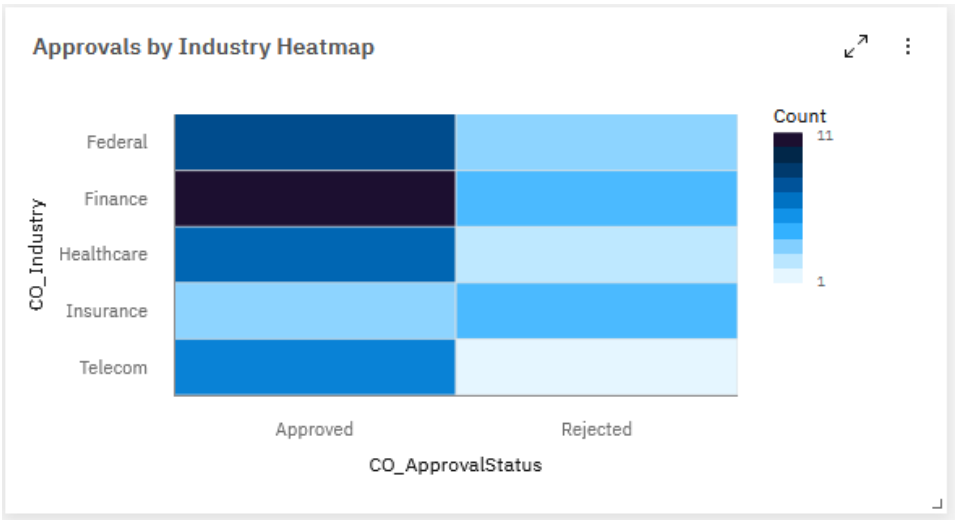


_2. Click **Done**



_3. Click the **Save** icon on the toolbar above the Dashboard to save your work!

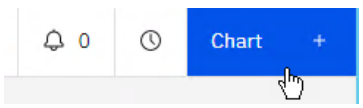
_4. Your chart should look similar to this.



2.2.11 Create "Client Onboarding Data" Chart

You will be creating a Client Onboarding data chart. The data chart will contain columns representing selected Client Onboarding case properties.

_1. Click **Chart +**



_2. Enter the following and then click **Create:**

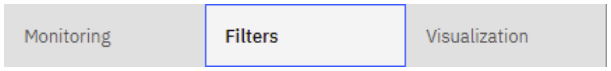
Item	Value
Name	Client Onboarding Data
Select measurement	Data

2.2.11.1 Define Monitoring Information

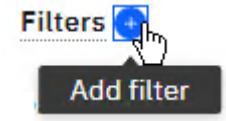
_1. For *Monitoring source,* select Workflow (Case) – Client Onboarding

2.2.11.2 Define Filters

_1. Select **Filters** tab



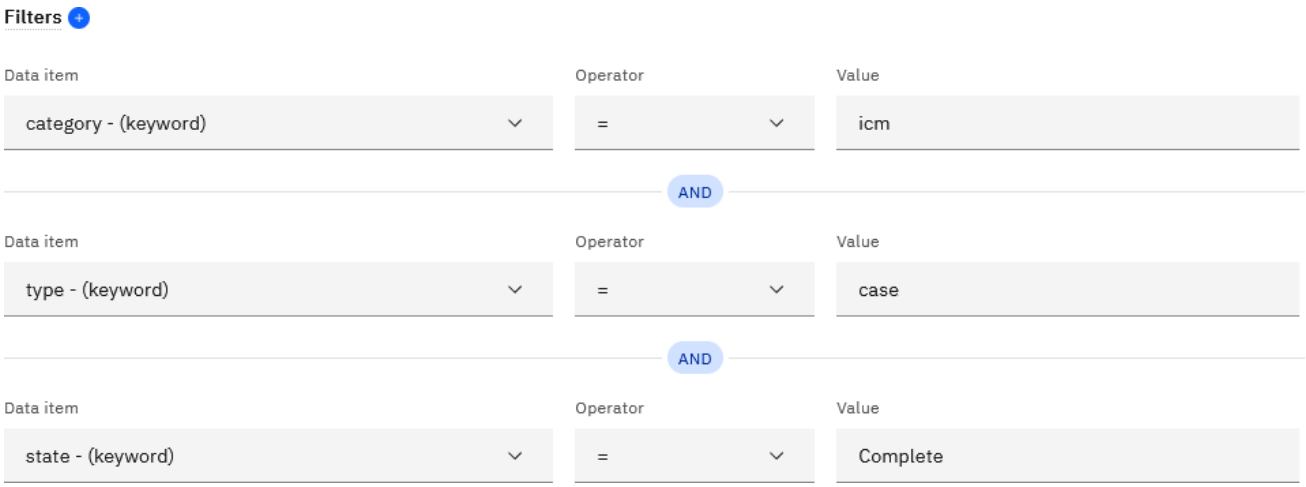
_2. Click the **Filter +** button **three** times to add three filters.



_3. For each group, select the following values from the dropdown list:

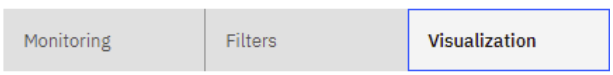
Group	Data item	Operator	Value
1	category – (keyword)	=	icm
2	type – (keyword)	=	case
3	state – (keyword)	=	Complete

Your Filters setting should look exactly like this:

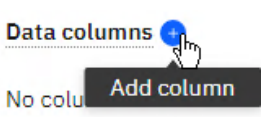


2.2.11.3 Define Visualization

_1. Select **Visualization** tab.



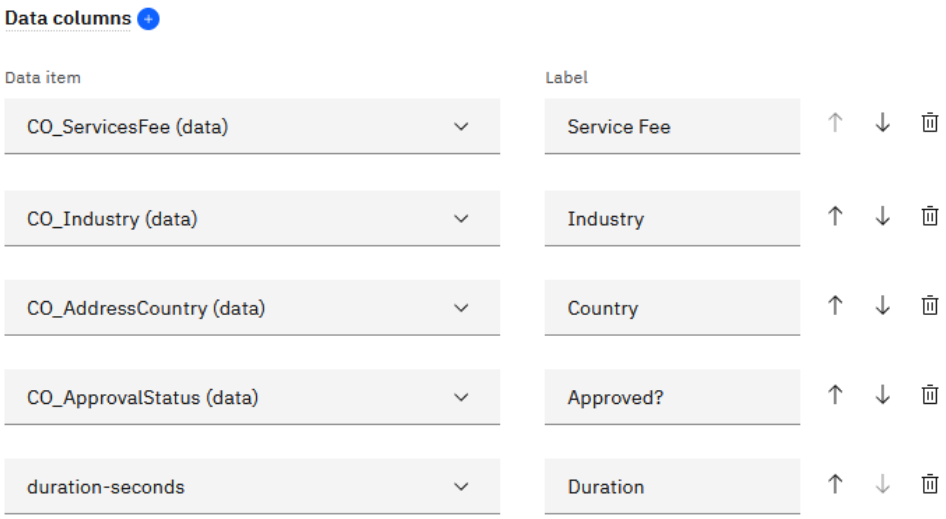
_2. Click the **Data columns +** button **five** times to add five data columns.



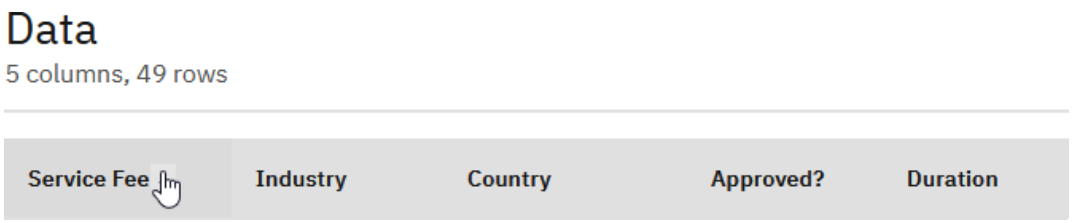
_3. For each group, select the following values from the dropdown list:

Data column	Data item	Label
1	CO_ServiceFee (data)	Service Fee
2	CO_Industry (data))	Industry
3	CO_AddressCountry (data)	Country
4	CO_ApprovalStatus (data)	Approved?
5	duration-seconds	Duration

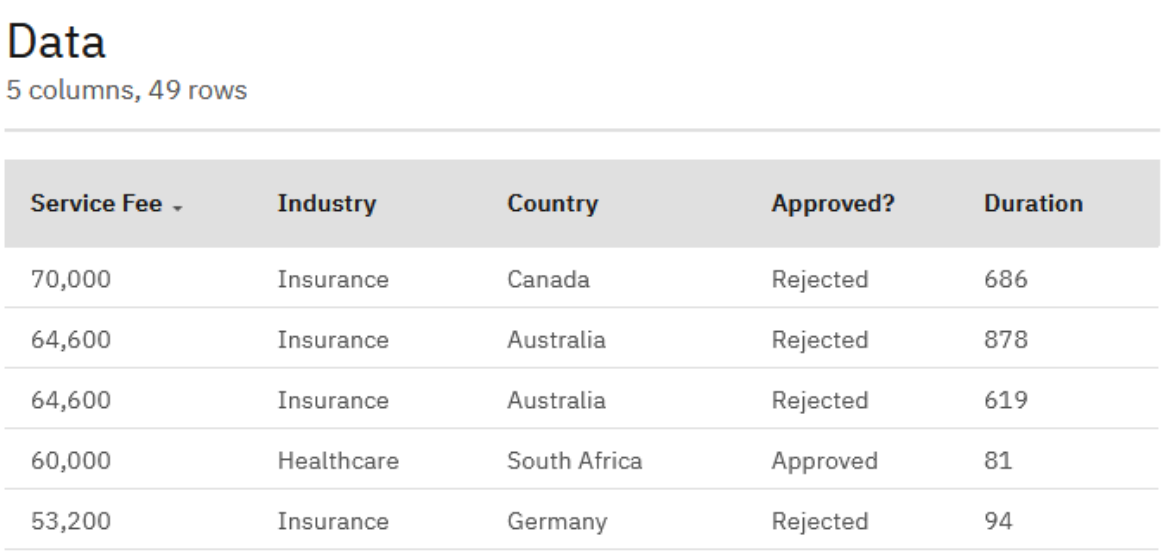
Your *Data columns* setting should look exactly like this:



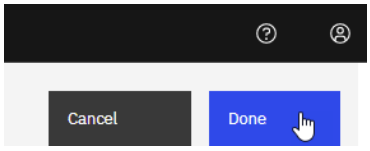
_4. Click the **Service Fee** column to sort the data by the Service Fee column.



_5. The data in the Data Chart should look similar to this.

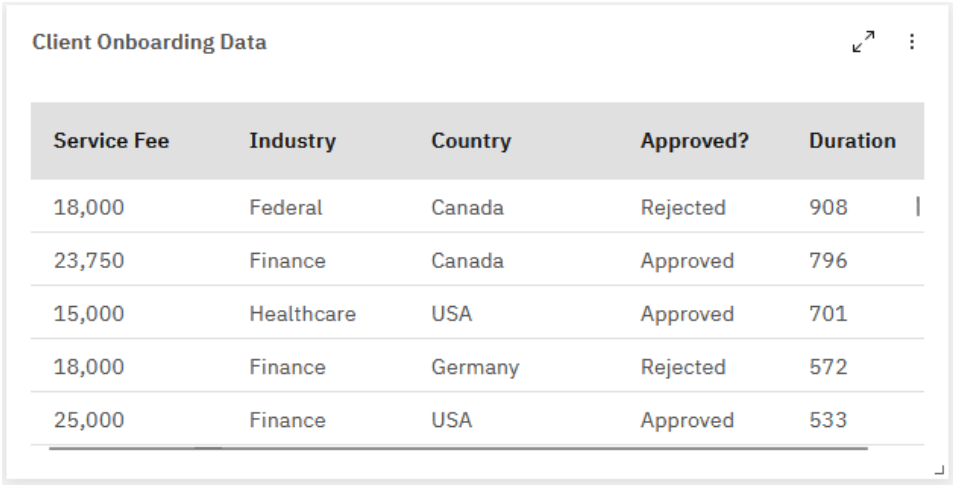


_6. Click **Done**



_7. Click the **Save** icon on the toolbar above the Dashboard to save your work!

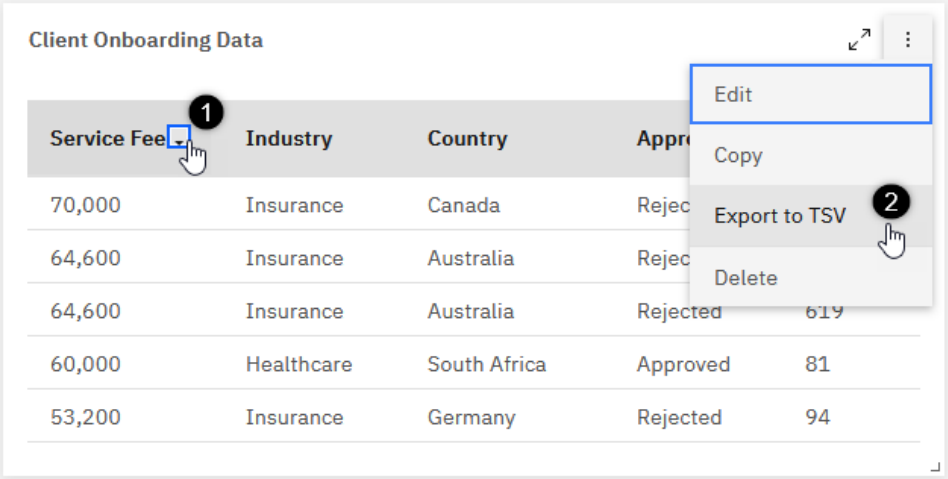
_8. The chart should look similar to this.



Service Fee	Industry	Country	Approved?	Duration
18,000	Federal	Canada	Rejected	908
23,750	Finance	Canada	Approved	796
15,000	Healthcare	USA	Approved	701
18,000	Finance	Germany	Rejected	572
25,000	Finance	USA	Approved	533

Note:

- You can sort the data in the chart. For example, in the screenshot above, the chart is sorted by the Service Fee column.
- You can export the data in the chart as a spreadsheet in the TSV format.

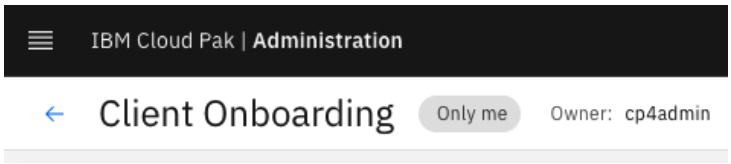


2.2.12 Create a Configure Goal

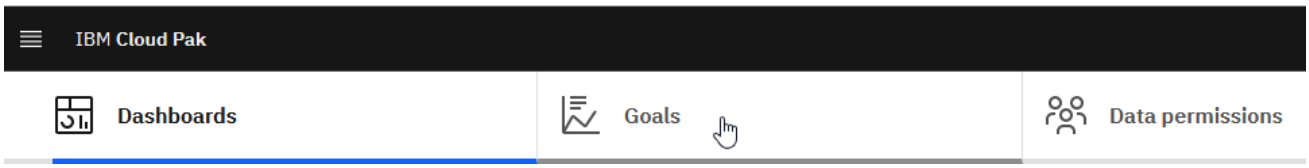
A Goal is a business statement that brings purpose and scope to your dashboards. Goals are used to aggregate charts within a dashboard and to give dashboards a business purpose. A goal's definition includes the details of a specific objective you want to achieve, the time frame for achieving an objective, and identifiers (categories and colors) for the goal.

2.2.12.1 Create a Goal

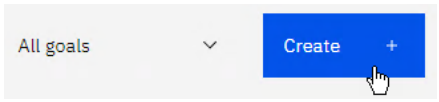
_1. Click the **arrow** to the left of the Client Onboarding dashboard



_2. Click **Goals**



_3. Click **Create**



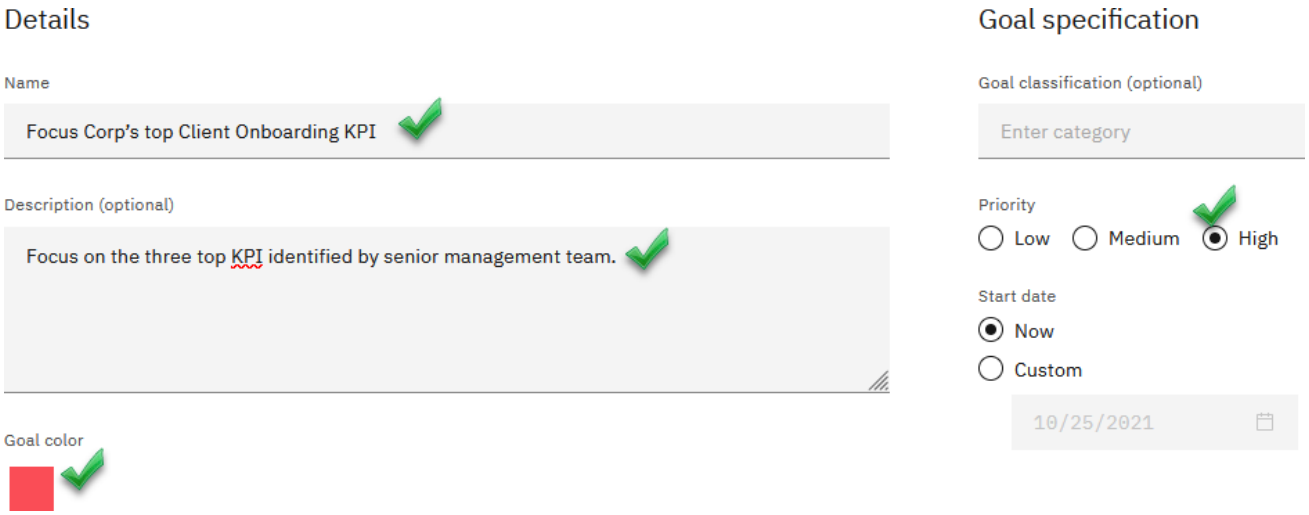
_4. For *Name*, enter **Focus Corp's top Client Onboarding KPI**

_5. For *Description,* enter **Focus on the three top KPIs identified by the senior management team**.

_6. For *Priority,* select **High**

_7. Click *Goal color* to **Red**

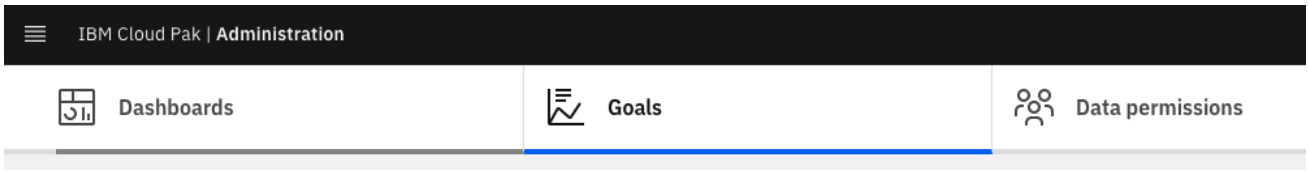
_8. Your Goal definition should look exactly like this:



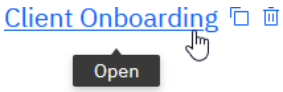
_9. Click **Save**

2.2.12.2 Set a business goal for selected charts

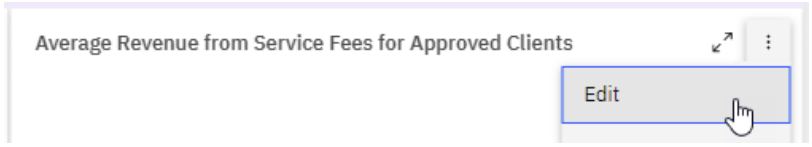
_1. Click **Dashboards**.



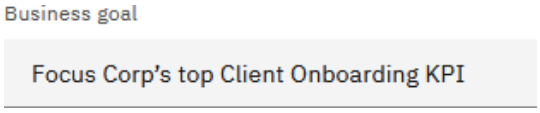
_2. Click **Client Onboarding** dashboard.



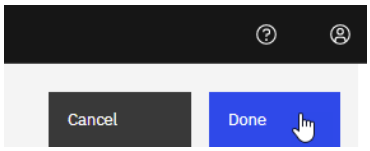
_3. On the Average Revenue from Service Fees for Approved Clients chart, click the **ellipses** and select **Edit**



_4. For Business goal, from the dropdown list, select **Focus Corp's top Client Onboarding KPI**

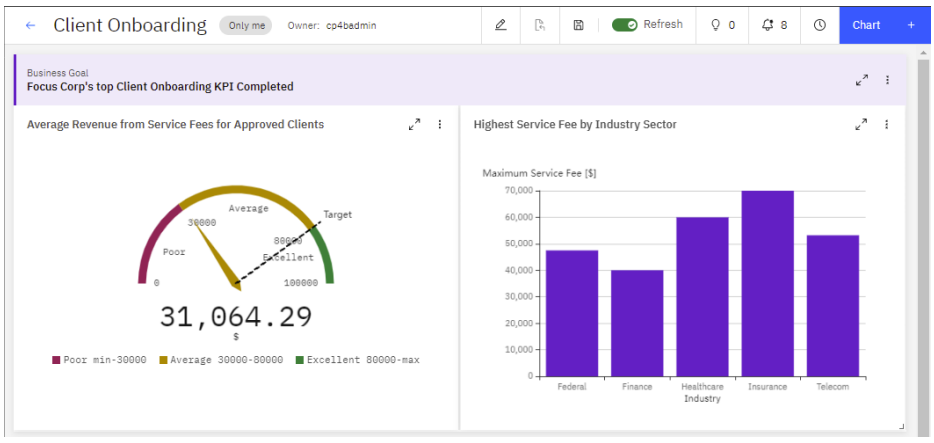


_5. Click **Done**



_6. Repeat the above steps to add a Business Goal to **Highest Service Fee by Industry Sector**

_7. The top of your Dashboard should now look similar to this:

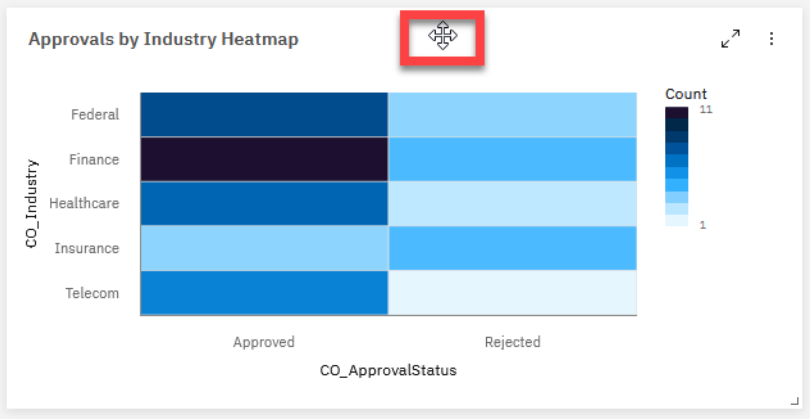


2.2.13 Change Dashboard Layout

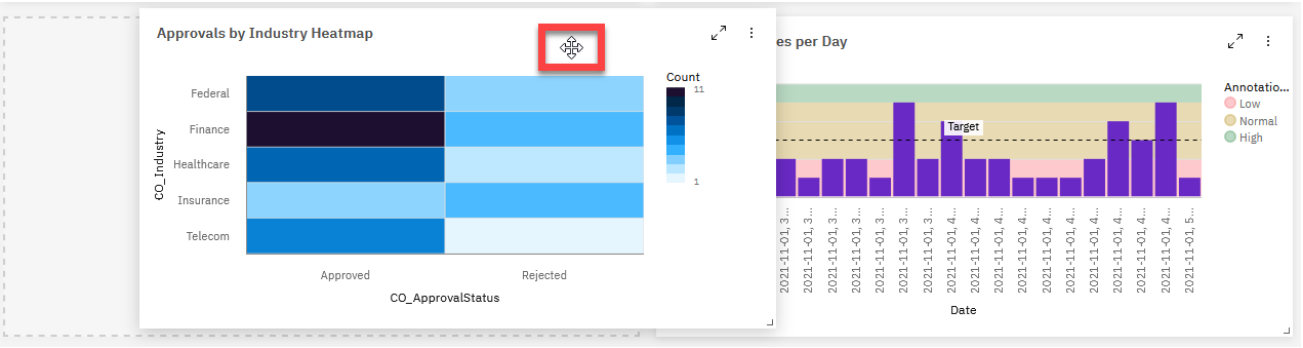
You will now customize your Dashboard by moving and changing chart sizes.

2.2.13.1 Move Approvals by Industry Heatmap Chart

_1. Click and hold the **title area** on the *Approvals by Industry Heatmap* chart:

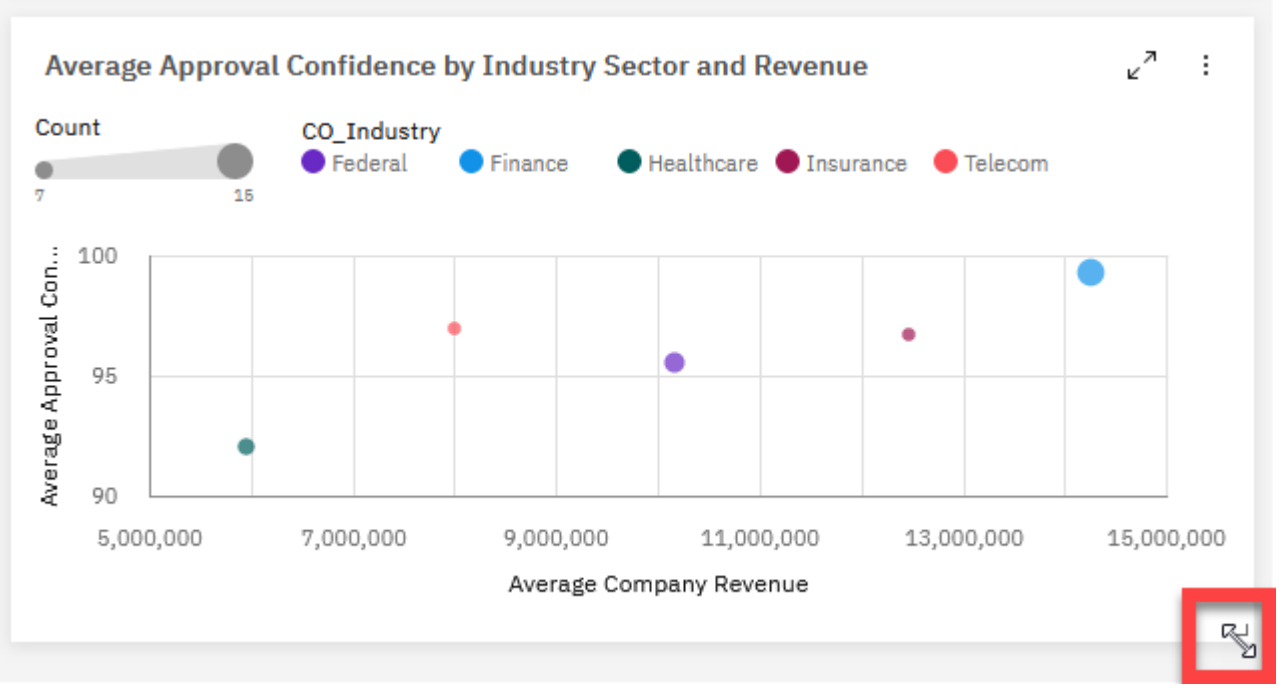


_2. **Drag** the chart to the empty area left of the Completed Cases per Day chart and release.

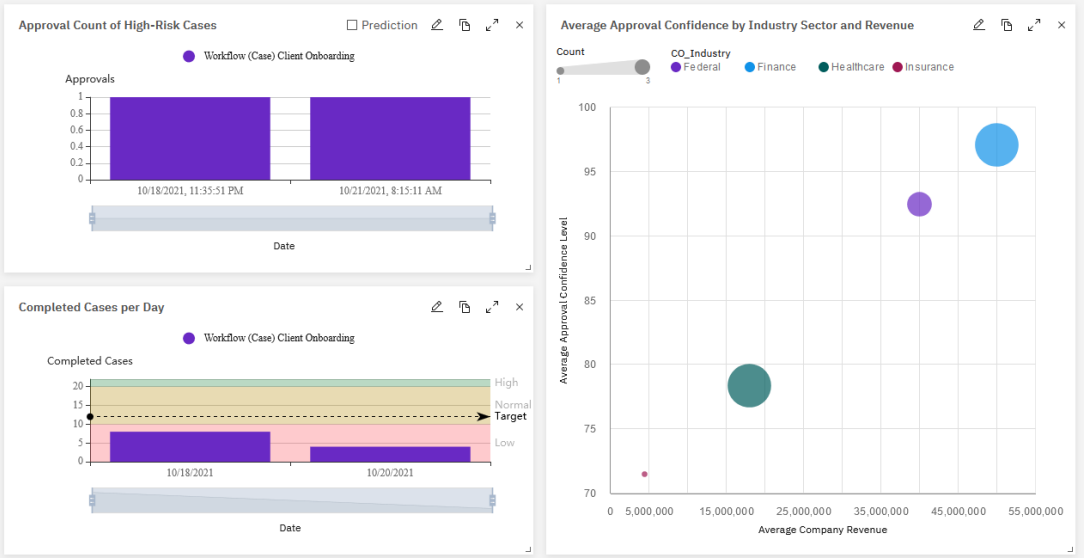


2.2.13.2 Expand chart Average Approval Confidence by Industry Sector and Revenue

_1. Click and hold the image expander in the bottom right corner of the **Average Approval Confidence by Industry Sector and Revenue** chart

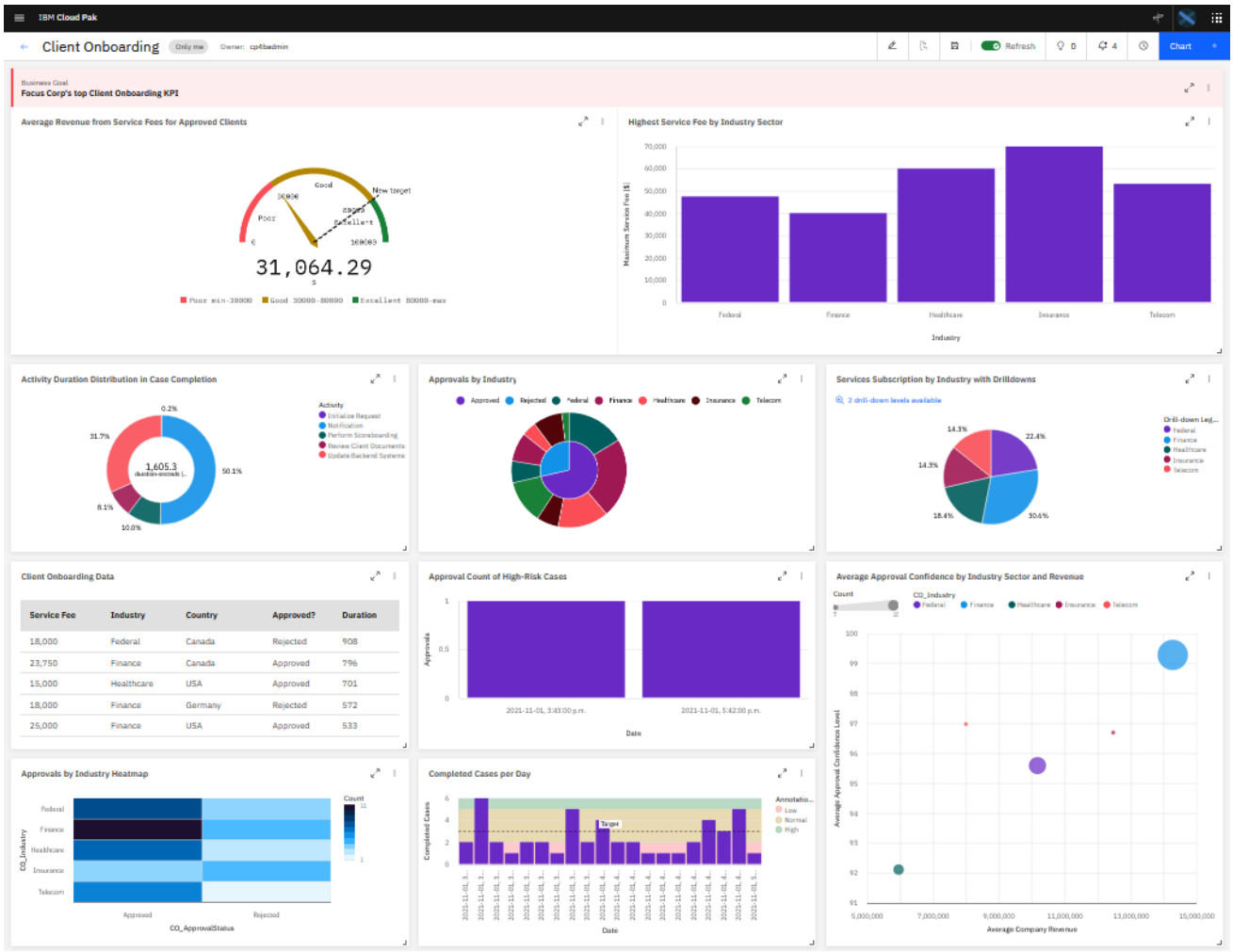


_2. Stretch the chart downwards until it achieves the height of two charts.



_3. Click the **Save** icon on the toolbar above the Dashboard to save your work!

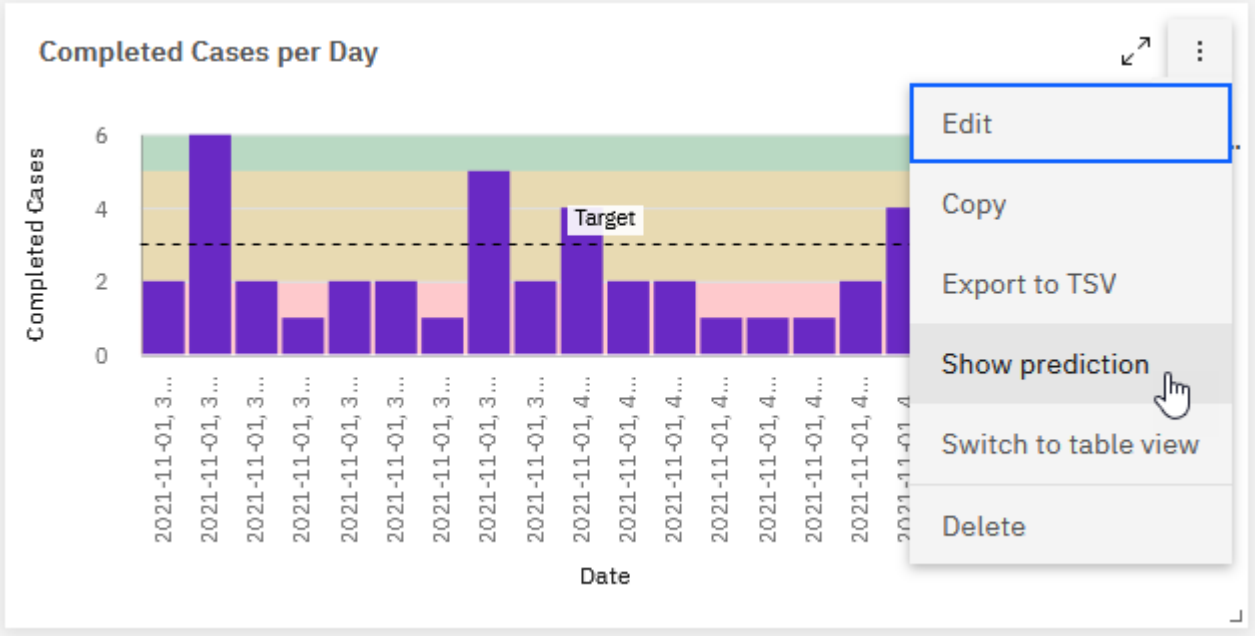
_4. Your final version of the Client Onboarding Dashboard should now look similar to this:



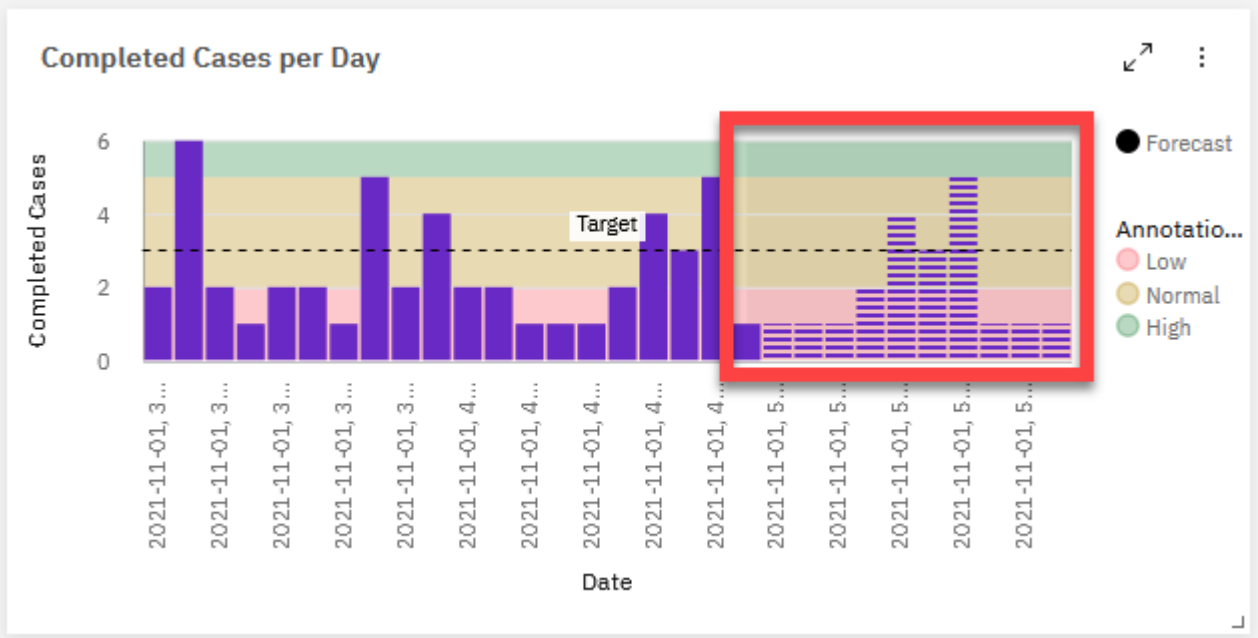
2.2.14 Explore Advanced Dashboard Features

2.2.14.1 KPI Predictions

_1. Click the ellipses on the Completed Cases per Day chart and then select **Show prediction**.

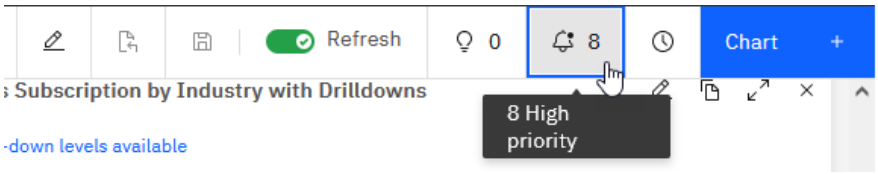


_2. You should now see the predicted case completion rate information.

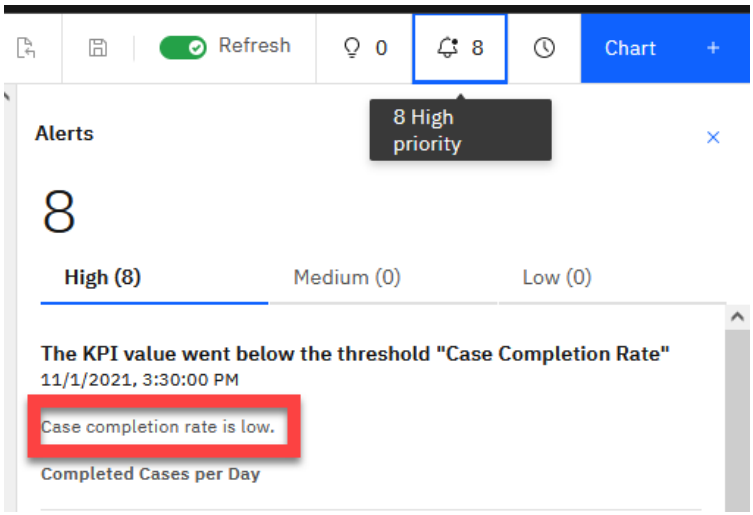


2.2.14.2 Dashboard Alerts

_1. Click the **Alert** icon in the toolbar above the Dashboard.



_2. You should now see all the alerts generated whenever the Case Completion Rate just reached or went below the lower threshold (2) you defined in the Completed Cases per Day Chart.



You may see a different number of alerts generated when other users work on the Client Onboarding case.

2.3 Summary

In this lab, you learned how to use the Business Performance Center to build a dashboard and provide insights into a Client Onboarding solution for a line of business users. Specifically, you learned how to create and configure the following BPC artifacts: Dashboards, Charts, Chart Alerts, and Goals.

Appendix A. IBM Business Automation Insights Architecture

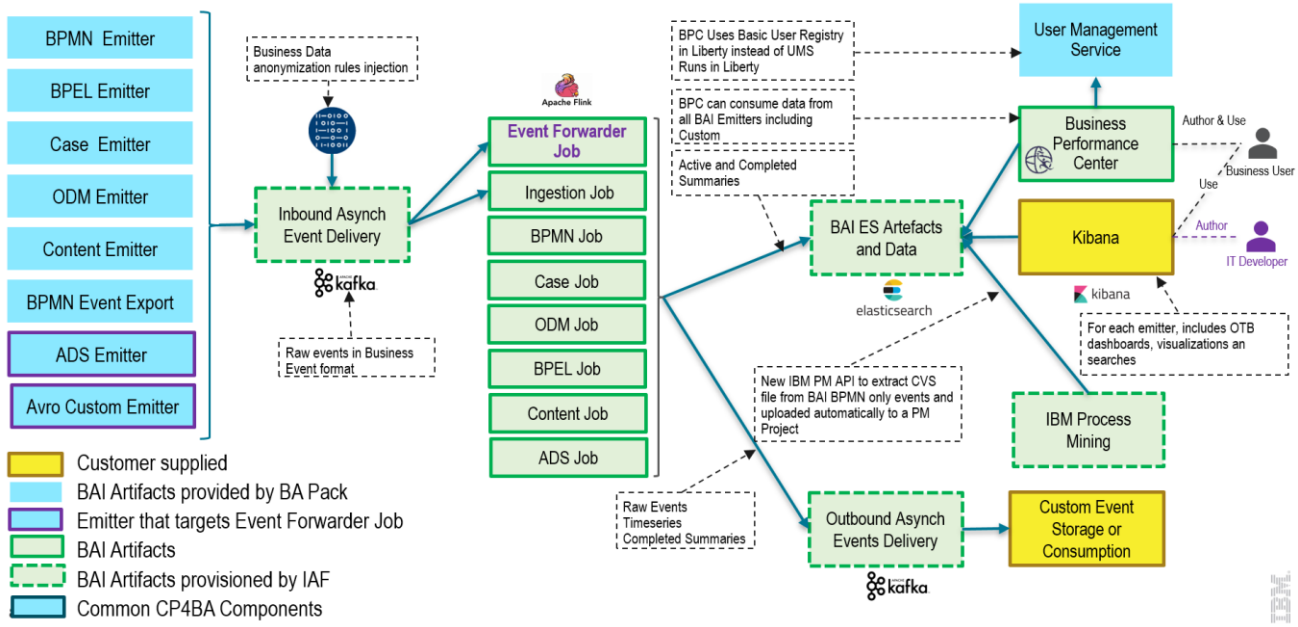


Figure 2. IBM Business Automation Insights Architecture – Full Detail

Additional presentation materials for IBMers and Business Partners:

- More technical information about BAI: https://ibm.box.com/v/IBM-BAI-Tech-Intro
- More technical details about BPC: https://ibm.box.com/v/BusinessPerformanceCenter

NOTICES

This information was developed for products and services offered in the USA.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering the subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
United States of America

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow the disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements, or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility, or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

TRADEMARKS

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Cell Broadband Engine is a trademark of Sony Computer Entertainment, Inc. in the United States, other countries, or both and is used under license therefrom.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

IT Infrastructure Library is a Registered Trade Mark of AXELOS Limited.

ITIL is a Registered Trade Mark of AXELOS Limited.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Linear Tape-Open, LTO, the LTO Logo, Ultrium, and the Ultrium logo are trademarks of HP, IBM Corp., and Quantum in the U.S. and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.