

Learn how you can use Business Performance Center to monitor the success of your organization

Session 4236

Lab Exercise Guide

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Table of Contents

Table of Contents

1 Lab Introduction	4
1.1 Introduction to IBM Business Automation Insights	4
1.2 Lab Overview	5
1.3 Lab Setup	6
2 Exercise: Create Client Onboarding Workflow Dashboard	8
2.1 Introduction	8
2.2 Exercise Instructions	8
2.2.1 Create a Dashboard	8
2.2.2 Create "Average Revenue from Service Fees for Approved Clients" Chart	8
2.2.3 Create "Approvals by Industry" Chart	14
2.2.4 Create "Services Subscription by Industry with Drilldowns" Chart	16
2.2.5 Create "Highest Service Fee by Industry Sector" Chart	19
2.2.6 Create "Approval Count of High-Risk Cases" Chart	21
2.2.7 Create "Average Approval Confidence by Industry Sector and Revenue" Chart	23
2.2.8 Create "Activity Duration Distribution in Case Completion" Chart	25
2.2.9 Create "Completed Cases per Day" Chart	27
2.2.10 Create "Approvals by Industry Heatmap" Chart	32
2.2.11 Create "Client Onboarding Data" Chart	34
2.2.12 Create a Configure Goal	38
2.2.13 Change Dashboard Layout	40
2.2.14 Explore Advanced Dashboard Features	42
2.3 Summary	43
Appendix A. IBM Business Automation Insights Architecture	44

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 <u>Appendix</u> of this lab guide.

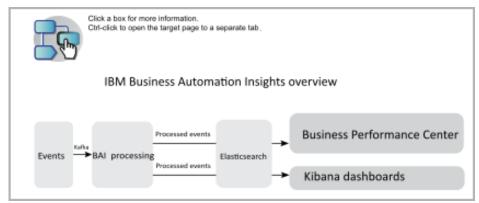


Figure 1. IBM Business Automation Insights Architecture

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 that implement 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.

Automations / Client Onboarding / Case Type

Client Onboarding Request

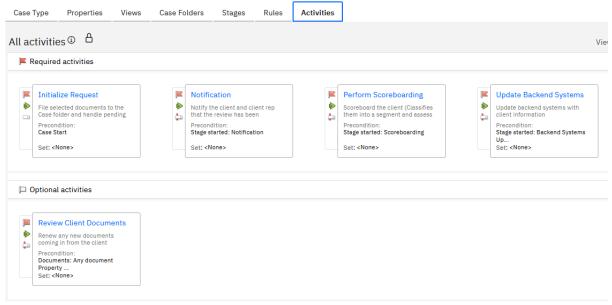
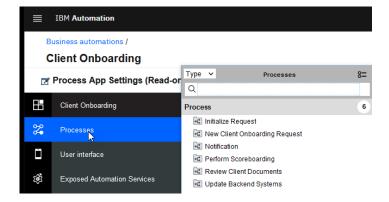
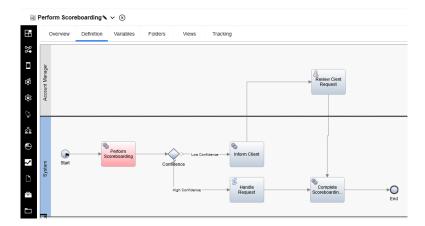


Figure 2. Client Onboarding Solution

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).



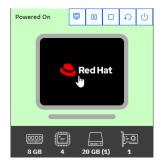
The Scoreboard ADS decision determines if a client is risky using a Machine Learning-based predictive model and classifies the client into a segment.



When authoring one of the Charts on the dashboard, you will be using data generated by the above decision.

1.3 Lab Setup

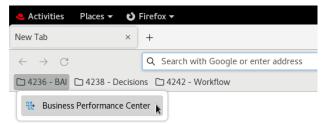
_1. Click the "Red Hat" image to start the RHEL VM you will be using to complete this lab.



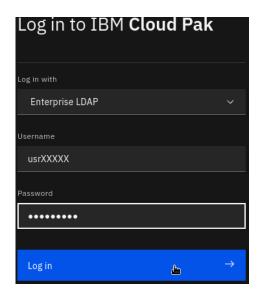
_2. Double click the **Filrefox icon** on the RHEL desktop.



_3. In the Firefox Web browser, Open 4236 – BAI toolbar folder and select Business Performance Center



_4. For Username and Password enter your student credentials and click Log in.

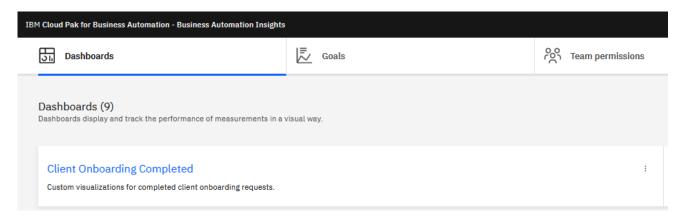


2 Exercise: Create Client Onboarding Workflow Dashboard

2.1 Introduction

In this lab exercise, you will use BPC to create a business dashboard that will 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 wish 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 built for you.



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

2.2 Exercise Instructions

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

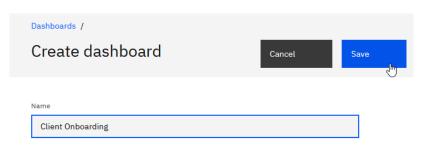
- Client Onboarding Dashboard
- Charts used in the Client Onboarding dashboard
- A chart Alert
- A Goal to group related charts

2.2.1 Create a Dashboard

_1. Click Create +



_2. For Name, enter Client Onboarding and click Save



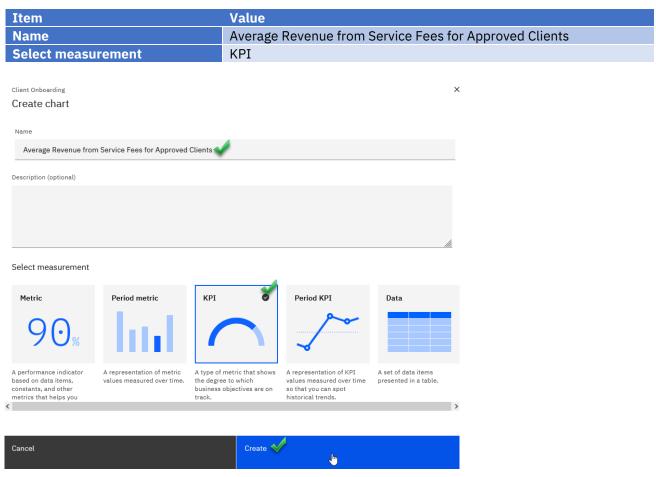
2.2.2 Create "Average Revenue from Service Fees for Approved Clients" Chart

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

_1. Click chart +



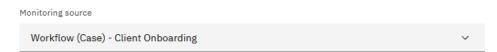
_2. Enter the following and then click **Create**



2.2.2.1 Define Monitoring Information

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

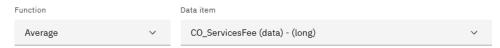
Monitoring context

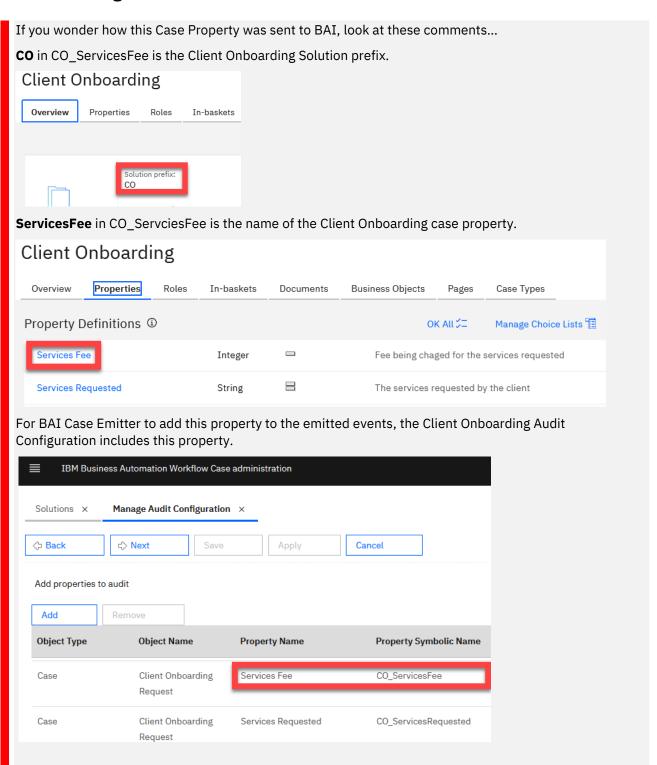


This will select events from the Client Onboarding workflow.

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

Aggregation





_3. To continue the lab...

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:



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:

Gauge settings Min Max 0 100,000 Unit \$

2.2.2.4 Define Thresholds

This setting allows you to customize the Gauge threshold setting.

_1. Select the Thresholds tab.

Monitoring Filters	Visualization	Thresholds
--------------------	---------------	------------

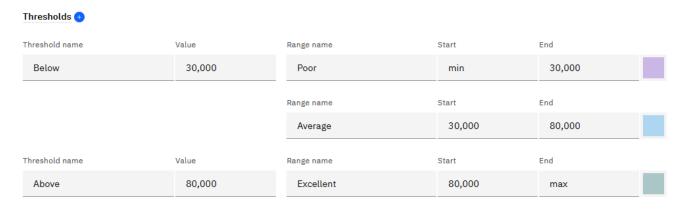
_2. Click the **Thresholds +** button two times.



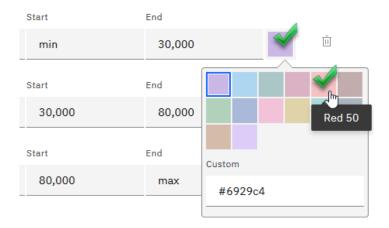
_3. For each group, enter the following values:

Threshold	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.



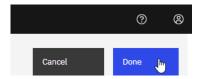
_5. Using the above steps, customize the other two colors.

Item	Value
80,000	Yellow
max	Green

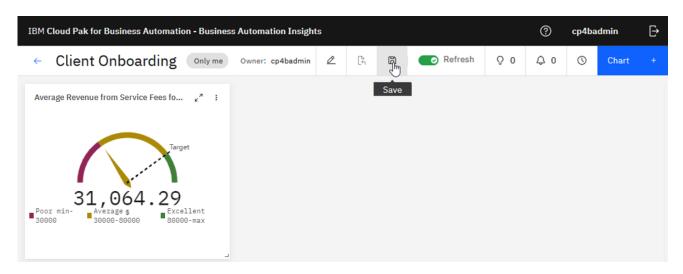
The color settings should look exactly like this:



_6. Click **Done**



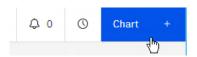
_7. Click the **Save icon** on the toolbar above the dashboard to save your work!



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



2.2.3.1 Define Monitoring Information

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

Monitoring context

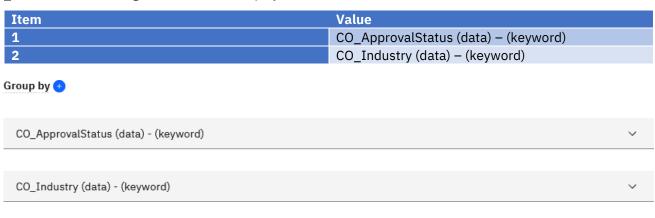
Monitoring source

Workflow (Case) - Client Onboarding

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

Group by 😑

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



_4. For chart, type select Hierarchical pie

Metric

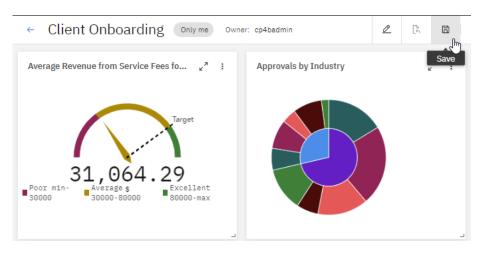
Hierarchical pie



_5. Click Done



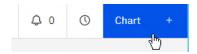
_6. Click the **Save** icon on the toolbar above the dashboard to save your work!



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.



2.2.4.1 Define Monitoring Information

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

Monitoring context

Monitoring source

Workflow (Case) - Client Onboarding

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

Group by 😑

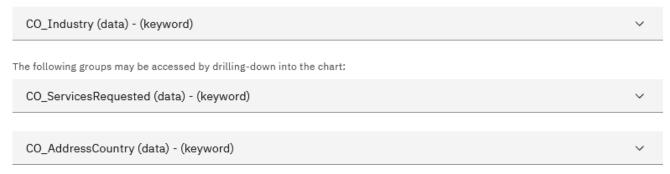
_3. Enter the following values for the *Group by* entries:

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:



You can drill-down to get the details of each group on the chart.



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



2.2.4.2 Define Visualization Information

_1. Click the Visualization tab



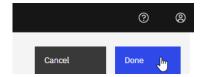
_2. For Pie settings > unit enter Drill-down Legend

Pie settings

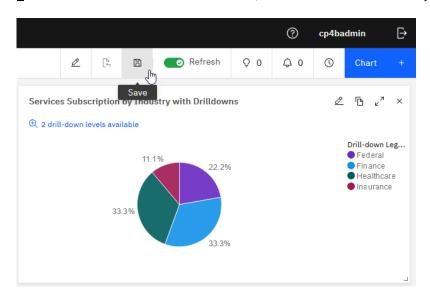
Unit

Drill-down Legend

_3. Click Done

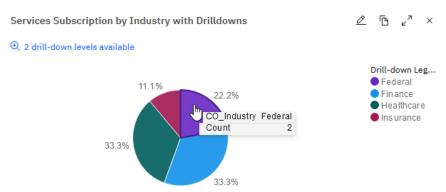


_4. On the toolbar above the Dashboard, click the **Save** icon to save your work!

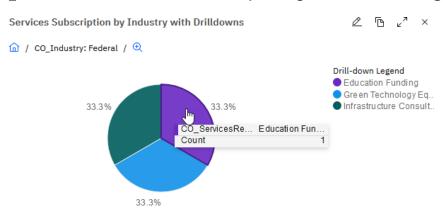


2.2.4.3 Explore Drill-down capability

_1. Select the first drill-down level by clicking on Federal Industry

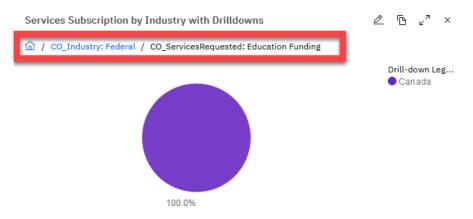


_2. Select the second drill-down level by clicking on **Education Funding** Service



_3. You should now see all the countries for Federal > Education Funding grouping.

4. Note the breadcrumbs.



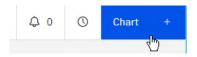
_5. Click **Reset** to get back to the original view



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

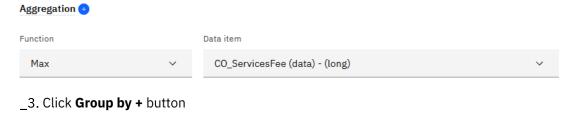
Monitoring context

Group by

Monitoring source

Workflow (Case) - Client Onboarding

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



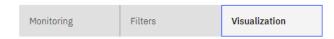
_4. Enter CO_Industry (data) - (keyword)

Group by 🕕



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 [\$]

Bar settings

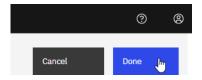
X axis label

Industry

Y axis label

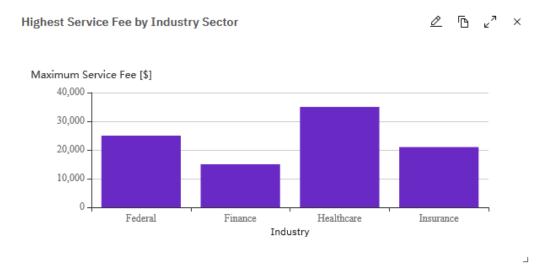
Maximum Service Fee [\$]

_3. Click Done



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

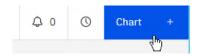
Your chart should look similar to this:



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

Monitoring context

Monitoring source

Workflow (Case) - Client Onboarding

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

Interval

Custom

Every 1

Minute(s)

_3. For chart type, select Bar

Period metric

Bar



2.2.6.2 Define Filters and Predictions

_1. Select Filters and predictions tab



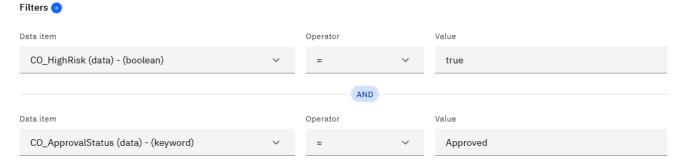
_2. Click the **Filter +** button twice to add two filters.



_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

Trend settings

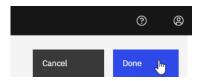
Approvals

X axis label

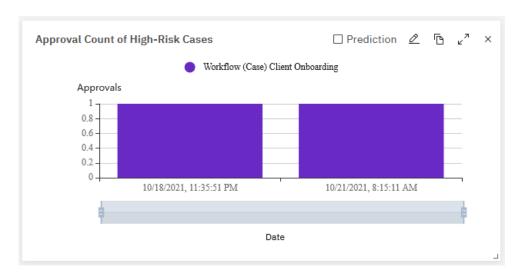
Date

Y axis label

_3. Click Done



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

Monitoring context

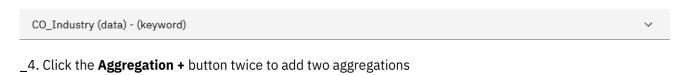
Monitoring source

Workflow (Case) - Client Onboarding

_2. Click Group by + button

Group by 😑

_3. Select CO_Industry (data) - (keyword)



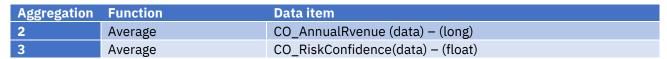
Aggregation Add an aggregation

Note that two Aggregations were added below Count

Aggregation



_5. For the two new aggregations, select the following values from the dropdown list:

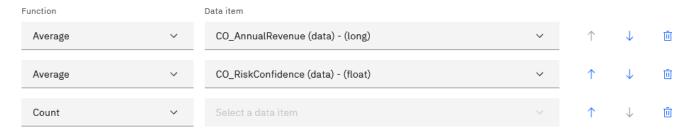


_6. Use the **Down Arrow** on the Count aggregation to move it to the bottom (make it the last aggregation).



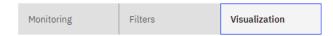
Your aggregations setting should look exactly like this:

Aggregation



2.2.7.2 Define Visualization Information

1. Click Visualization tab

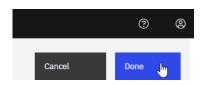


_2. For Bubble settings, enter:

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

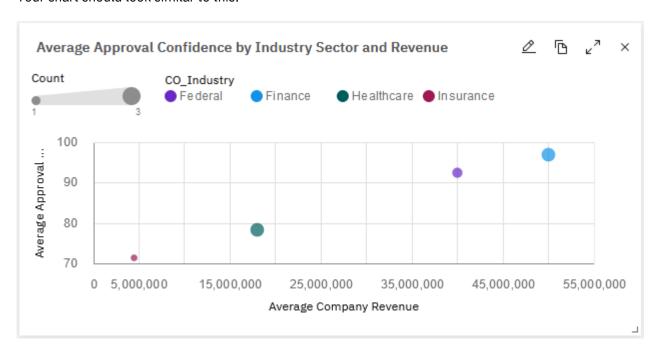
_3. Click **Done**

Y axis label



Average Approval Confidence Level

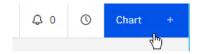
_4. On the toolbar about the dashboard, click the **Save** icon to save your work! Your chart should look similar to this.



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 +



Monitoring context

_2. Enter the following and then click Create:

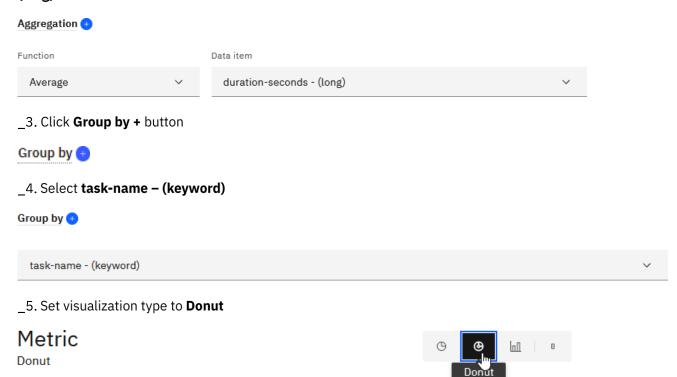
Item	Value
Name	Activity Duration Distribution in Case Completion
Select measurement	Metric

2.2.8.1 Define Monitoring Information

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

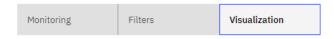
Monitoring source Workflow (Case) - Client Onboarding

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



2.2.8.2 Define Visualization Information

_1. Click Visualization tab

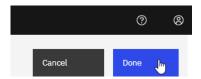


_2. For Donut settings, set Unit to Activity

Donut settings

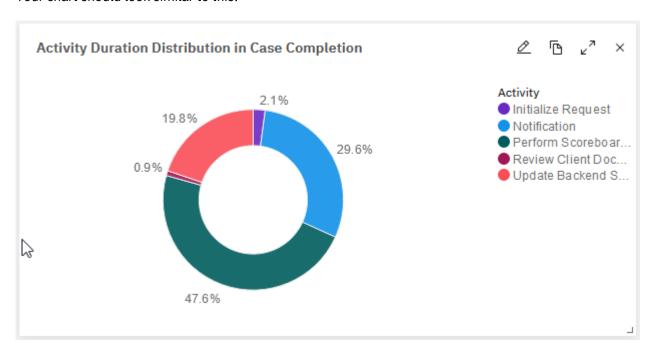
Unit

_3. Click Done



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

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.

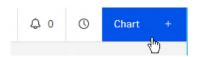
Note that the title states "per Day," but given the data set used for this lab, the scale set "per Minute".

This chart will also include two advanced features:

- 1. 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.
- 2. 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

Monitoring context

Monitoring source

Workflow (Case) - Client Onboarding

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

Interval

Custom × Every 1 Minute(s)

_3. Click Targets + button



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



_5. For visualization, select **Bar**

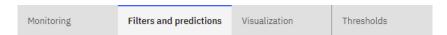
Period KPI

Bar



2.2.9.2 Define Filters

_1. Select the Filters and predictions tab



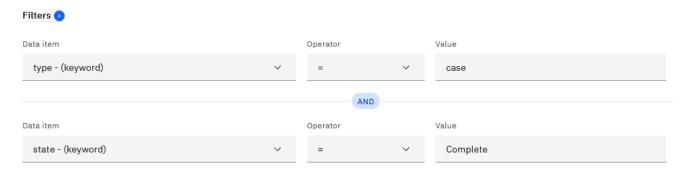
_2. Click the Filter + button twice to add two filters



_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:



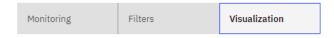
_4. Under Prediction, enable the slider to turn them on.

Prediction

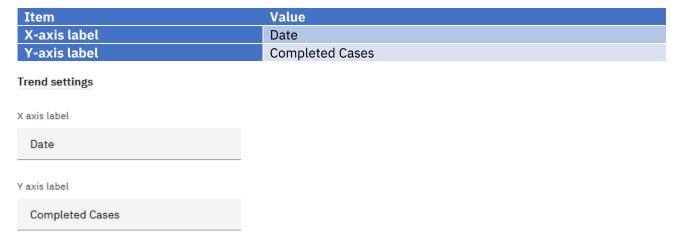


2.2.9.3 Define Visualization Information

_1. Click the Visualization tab



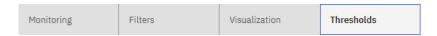
_2. For Trend settings, enter:



2.2.9.4 Define Thresholds

This setting allows you to customize the Gage threshold setting.

_1. Select **Thresholds** tab.



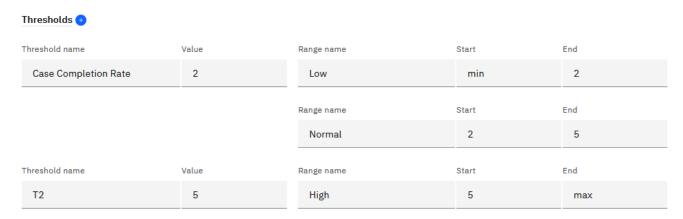
_2. Click the **Thresholds +** button twice to add two thresholds.



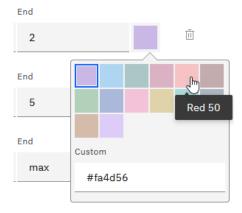
_3. For each group select the following values from the dropdown list:

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:



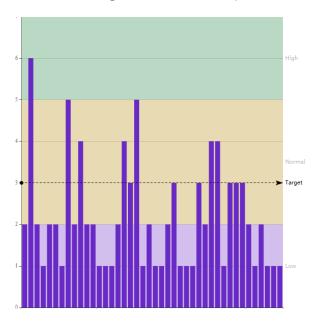
_4. Click the **Color patch** next to **Low** and then select the **Red color patch** from the palette



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

Item	Value
Normal	Yellow
High	Green

The color settings should look exactly like this:



2.2.9.5 Define Alert

This setting allows you to customize the Gage threshold setting.

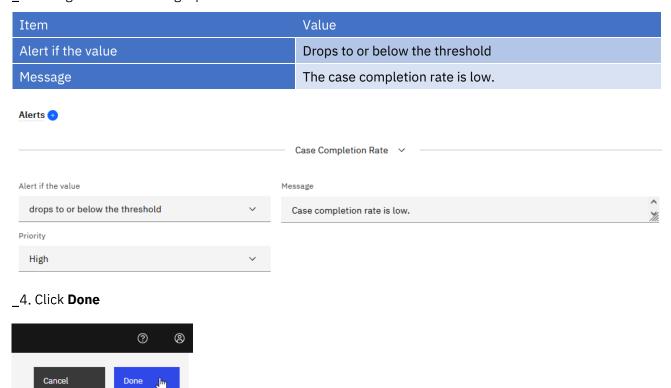
_1. Click Alerts +



_2. Make sure threshold Case Completion Rate is selected

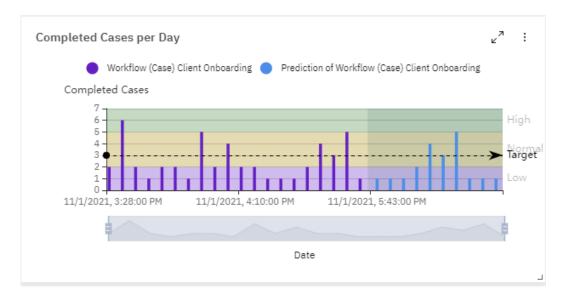


_3. Configure the alert using input values shown below



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! Your chart should look similar to this.

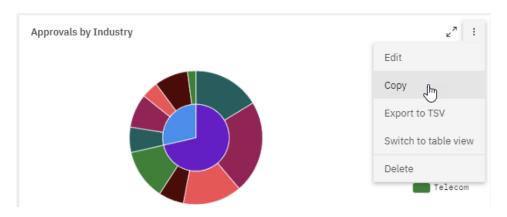


2.2.10 Create "Approvals by Industry Heatmap" Chart

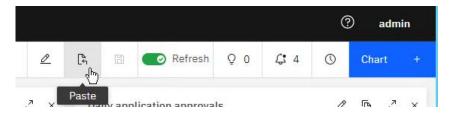
This heatmap chart will use the tile color intensity to indicate the count (the deeper the color, the higher the count). The tiles will be positioned in a grid. The X-Axis will represent the approvals state: approved/rejected/approval pending. The Y-Axis will reflect the industry.

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.



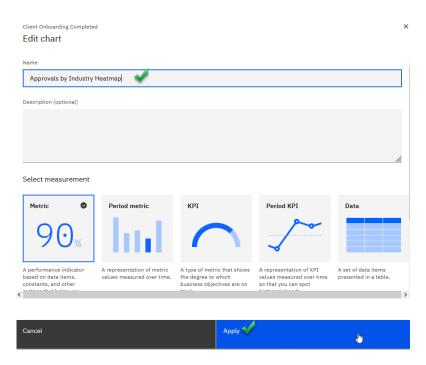
_2. On the toolbar above the dashboard, click **Paste**.



- _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.

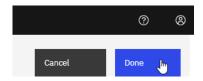


2.2.10.1 Define Monitoring Information

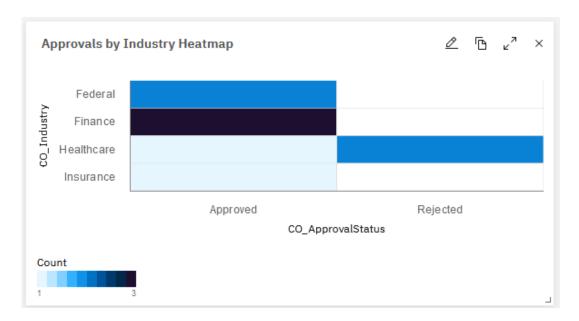
_1. For visualization, select Heat Map



_2. Click Done



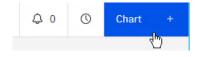
_3. Click the **Save** icon on the toolbar above the dashboard to save your work! Your chart should look similar to this.



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:



2.2.11.1 Define Monitoring Information

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

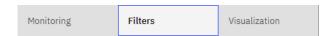
Monitoring context

Monitoring source

Workflow (Case) - Client Onboarding

2.2.11.2 Define Filters

_1. Select Filters tab



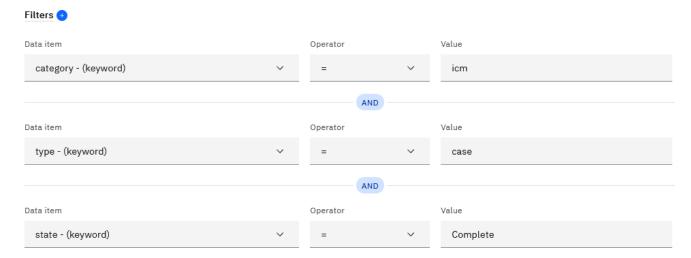
_2. Click the **Filter +** button three times to add three filters.



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

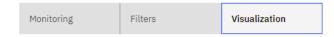
Group	Data item	Operator	Value
1	category – (keyword)	=	icm
2	type – (keyword)	=	case
3	state – (keyword)	=	Complete

Your Filters setting should look exactly like this:



2.2.11.3 Define Visualization

_1. Select Visualization tab.



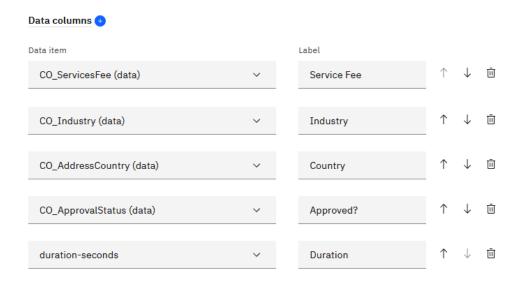
_2. Click the **Data columns +** button 5 times to add five data columns.



_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.

Data

5 columns, 12 rows



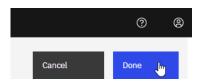
The data in the Data Chart should look similar to this.

Data

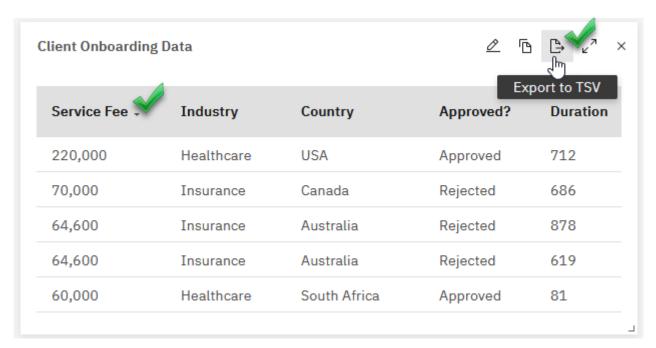
5 columns, 12 rows

Service Fee +	Industry	Country	Approved?	Duration
35,000	Healthcare	United States of America	Rejected	60
25,000	Federal	United States of America	Approved	71
21,000	Healthcare	United States of America	Approved	76
21,000	Healthcare	United States of America	Rejected	84
15,000	Finance	United States of America	Approved	51
15,000	Finance	United States of America	Approved	59
15,000	Federal	Canada	Approved	52
15,000	Finance	United States of America	Approved	59

_5. Click Done



- _6. Click the **Save** icon on the toolbar above the dashboard to save your work!
- _7. The chart should look similar to this.



Note:

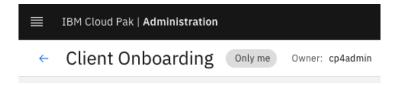
- You can sort the data in the chart. For example, in the screenshot above, the chart is sorted by the Service Fee column.
- You can export the data in the chart as a spreadsheet in the TSV format.

2.2.12 Create a Configure Goal

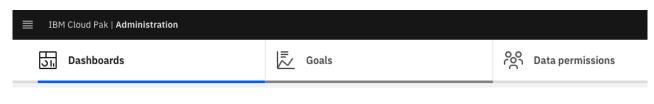
A Goal is a business statement that brings purpose and scope to your dashboards. Goals are used to aggregate charts within a dashboard and to give dashboards a business purpose. A goal's definition includes the details of a specific objective you want to achieve, the time frame for achieving an objective,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



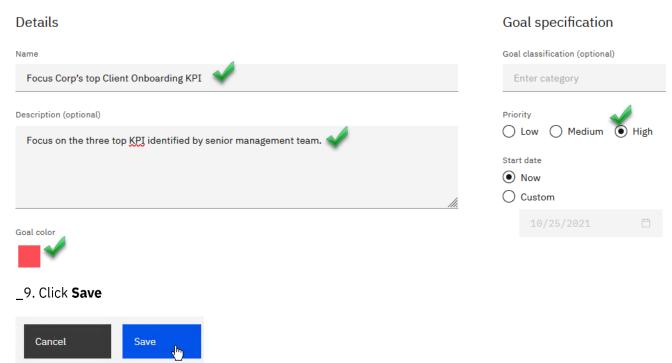
_2. Click Goals



_3. Click Create

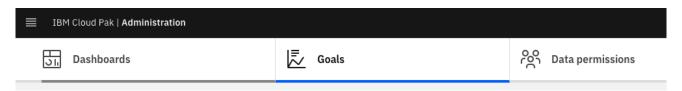


- _4. For Name, enter Focus Corp's top Client Onboarding KPI
- _5. For Description, enter Focus on the three top KPIs identified by the senior management team.
- _6. For Priority, select High
- _7. `Click Goal color to Red
- _8. Your Goal definition should look exactly like this:



2.2.12.2 Set 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

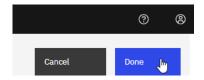


_4. For Business goal, from the dropdown list, select Focus Corp's top Client Onboarding KPI

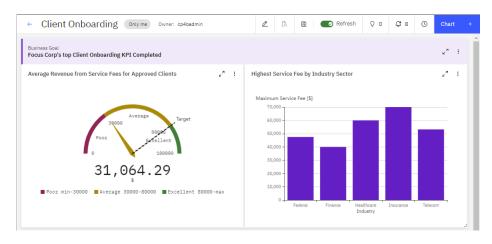
Business goal

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:

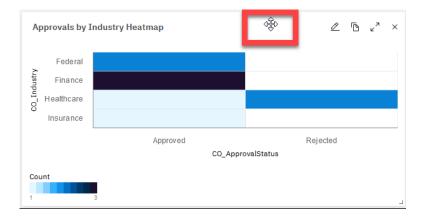


2.2.13 Change Dashboard Layout

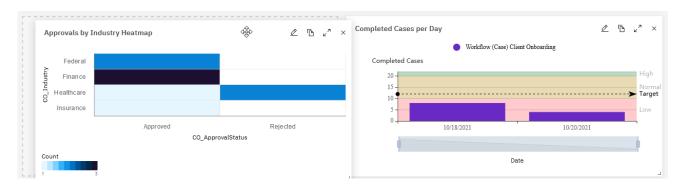
You will now customize your dashboard by moving and changing chart sizes.

2.2.13.1 Move Approvals by Industry Heatmap Chart

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

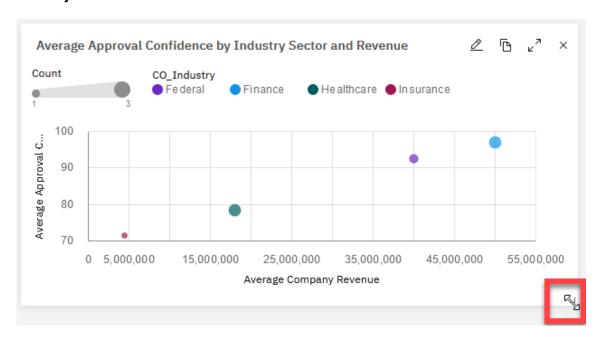


2. Drag the chart to the empty area to the left of the Completed Cases per Day chart and release.

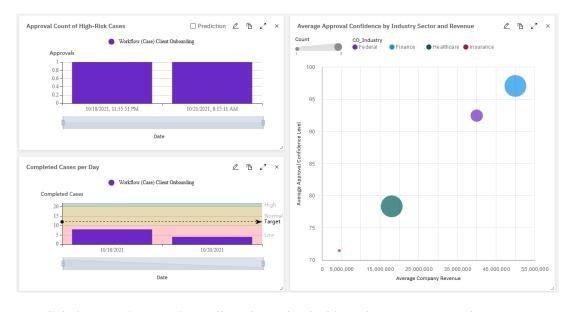


2.2.13.2 Expand chart Average Approval Confidence by Industry Sector and Revenue

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

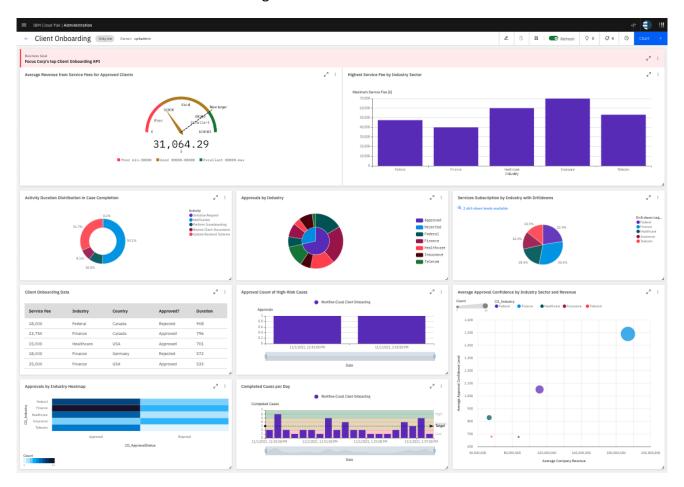


_2. Stretch the chart downwards until it achieves the height of two charts.



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

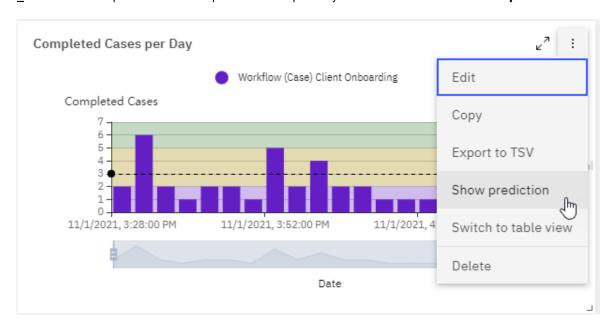
Your final version of the Client Onboarding Dashboard should now look similar to this:



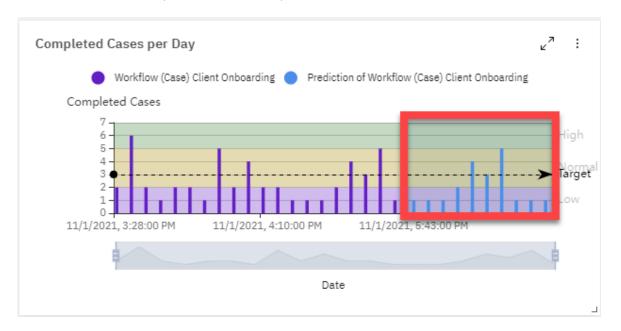
2.2.14 Explore Advanced Dashboard Features

2.2.14.1 KPI Predictions

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

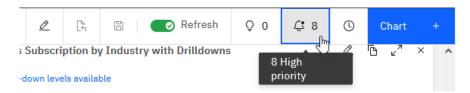


You should now see the predicted case completion rate information.

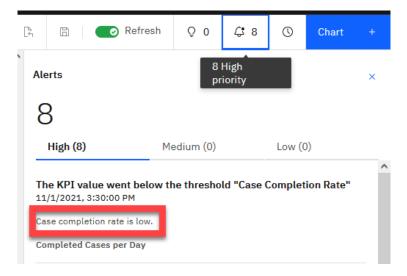


2.2.14.2 Dashboard Alerts

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



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 when other users work on the Client Onboarding case.

2.3 Summary

In this lab, you learned how to use 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

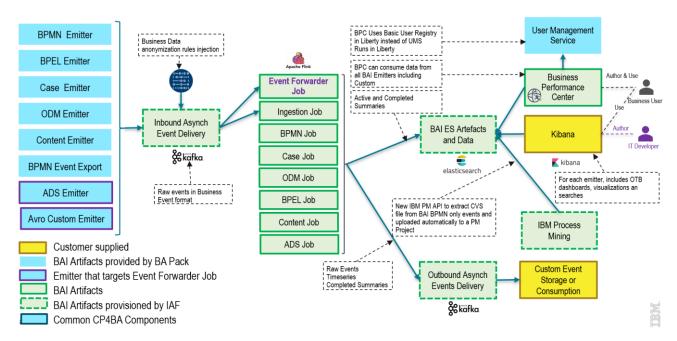


Figure 3. IBM Business Automation Insights Architecture - Full Detail

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