IBM Cloud Pak for Business Automation Demos and Labs

Operational Intelligence IBM Business Automation Insights

Build Business Performance Center Dashboard

V 2022.2

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1 Lab Introduction

In the labs, you will learn how to build and use the Business Performance Center dashboard to 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 enables the capture of events generated by the operational systems implemented with the IBM Business Automation products. Captured events are aggregated into business-relevant KPIs, and presented in dashboards for lines of business to have a real-time view of their business operations.



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

Figure 1. IBM Busines Automation Insights 21.0.3 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.

More information about BPC: <u>https://ibm.box.com/v/BusinessPerformanceCenter</u>

1.2 Lab Overview

The solution used during the labs is *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 Requests*, which includes activities that need to be performed, data, documents, and conditions driving the processing.

Automations / Client Onboarding / Case Type

| Clie | nt Onboarding | Request | | | | | | | | |
|----------|---|-------------|--|--|--------|-----------|---|---|-------|--|
| Case | Type Properties Vie | ews Case Fo | lders S | tages | Rules | Activitie | s | | | |
| All ac | tivities 🛈 🖁 | | | | | | | | | Vi |
| JE R | Required activities | | | | | | | | | |
| K | Initialize Request File selected documents to the Case folder and handle pending Precondition: Case Start Set: <none></none> | | Notificatio Notify the clit that the revie Precondition: Stage started Set: <none></none> | n ent and clie ew has been : : J: Notificatio | nt rep | 0 | | Perform Scoreboarding Scoreboard the client (Classifies them into a segment and assess Precondition: Stage started: Scoreboarding Set: <none></none> | 1 🖉 🔺 | Update Backend Systems Update backend systems with client information Precondition: Stage started: Backend Systems Up Set: <none></none> |
| | Optional activities | | | | | | | | | |
| | Review Client Documents | | | | | | | | | |
| . ♦ | Renew any new documents coming in from the client | | | | | | | | | |
| | Precondition: Documents: Any document Property Set: <none></none> | | | | | | | | | |
| - ' | | | | | | | | | | |

All five Case Activities above are implemented by BPMN Processes (shown below) in an automatically generated Process App (Client Onboarding)



The *Perform Scoreboarding* Activity (shown in light red below) is of particular interest. It uses Automation Services to invoke Scoreboard decisions implemented using Automation Decision Services.



The Scoreboard ADS Decision determines if a client is risky using an ML-based predictive model and classifies the client into a segment.



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

1.3 Lab Setup Instructions

_1. If you are performing this lab as a part of an IBM event, access the document that lists the available systems and URLs along with login instructions. For this lab, you will need to access **IBM Business Performance Center**.

- _2. Paste the Business Performance Center URL to your web browser.
- _3. Select Enterprise LDAP login option



_4. Enter the supplied to you Username and Password and then click Log in

| Log in to IBM Cloud Pak Administration | on Hub |
|---|--------|
| Enter your enterprise LDAP username and passw | ord |
| Username | |
| user | |
| Password | |
| ••••• | |
| | |
| | |
| Log in | |
| Change your authentication type | |

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 a real-time business insight into *Client Onboarding* Workflow.

In addition to built-in dashboards, a reference version of the dashboard you will be building in the lab exercise (called **Client Onboarding Completed**) has already been built for you.

| لم Dashboards | Goals | Contract Team permissions |
|--|-----------------------------|---------------------------|
| Dashboards (9) ashboards display and track the performance of mea | asurements in a visual way. | |
| | | |

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 of the screenshots in the lab instructions may not look as captured in the lab instructions.

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

| Dashboards / | | |
|---------------------------|--------|------|
| Create dashboard | Cancel | Save |
| Name Client Onboarding | | |

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

| Item | | Value | | | | |
|--|---|--|--|--|---|--|
| Name | | Average | Average Revenue from Service Fees for Approved Clients | | | |
| Select measur | ement | KPI | | | | |
| Client Onboarding Create chart Name Average Revenue from | Service Fees for Approved | Clients | | , | × | |
| Description (optional) | | | | | | |
| Select measurement | | | | h. | | |
| Metric 9 0% | Period metric | КРІ | Period KPI | Data | | |
| A performance indicator based on data items, constants, and other metrics that helps you c | A representation of metric values measured over time. | A type of metric that shows the degree to which business objectives are on track. | A representation of KPI values measured over time so that you can spot historical trends. | A set of data items presented in a table. | > | |
| Cancel | | Create 🐳 | J | | | |

2.2.2.1 Define Monitoring Information

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

Monitoring context

| Monitoring source | |
|-------------------------------------|--------|
| Workflow (Case) - Client Onboarding | \sim |

This will select events from Client Onboarding Workflow.

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

| ion | | Data item | | | | | |
|---|---|---|----------------------------|-----------------------------|---------------------------|----------------|-----------------------|
| erage | ~ | CO_Service | 3Fee (data) - (l | ong) | | ~ | |
| If you wonder CO in CO_Serv Client Onb | how this ricesFee oardin operties | Case Prope is the Clien g Roles In-bas | erty got int t Onboard | o BAI, lool ling Solutic | k at these common prefix. | nents | |
| ServicesFee in Client On | n CO_Ser boardi | rvciesFee is | the name | e of the Clie | ent Onboarding | Case pro | perties |
| Overview P | roperties | Roles In | -baskets | Documents | Business Objects | Pages | Case Types |
| Property Defi | nitions @ | D | | | С | K AII ∜⊒ | Manage Choice Lists 🛅 |
| Services Fee | | 1 | nteger | | Fee being cha | iged for the s | services requested |
| Services Reque | ested | ç | String | | The services | requested by | / the client |
| For BAI Case E Onboarding Au | Emitter to udit Conf | D add this pi iguration tion Workflow Ca | operty to seadministrat | the emitte | d events, we ne | ed to co | nfigure the Client |
| Solutions × | Manage A | Audit Configurati | on X | Apply | Cancel | | |
| Solutions × | Manage # | Audit Configurati | on × | Apply | Cancel | | |
| Solutions × | Manage / | Audit Configurati | on × | Apply | Cancel | | |
| Solutions × | Manage / C Next o audit Remove Obj | Audit Configurati | on × | Apply Name | Cancel Property Sym | bolic Name | |
| Solutions × Case | Manage /) <> Next o audit Remove Obj Ctie Remove | Audit Configurati | on × | Apply Name Fee | Cancel Property Sym | bolic Name | |

_3. Click Targets +



_4. For Value enter 80000

| Targets 🕙 | | |
|------------|--------|---|
| Label | Value | |
| New target | 80,000 | Ū |

2.2.2.2 Define Filter Data

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

_1. Select Filters tab

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

_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:

| Data item | | Operator | | Value |
|--------------------------------------|---|----------|---|----------|
| CO_ApprovalStatus (data) - (keyword) | ~ | = | ~ | Approved |

2.2.2.3 Define Visualization

This setting allows you to customize your Chart display settings.

_1. Select Visualization tab



_2. Enter the following values:

| Item | Value |
|------|-------|
| Min | 0 |
| 10 | 10000 |
| 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 Gage threshold setting.

_1. Select Thresholds tab

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

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



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

| 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:

| Thresholds + | | | | |
|----------------|--------|------------|--------|--------|
| Threshold name | Value | Range name | Start | End |
| Below | 30,000 | Poor | min | 30,000 |
| | | Range name | Start | End |
| | | Average | 30,000 | 80,000 |
| Threshold name | Value | Range name | Start | End |
| Above | 80,000 | Excellent | 80,000 | max |

_4. Click **Purple Color patch** and then select **Red color patch** from the palette



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

| Item | Value |
|-----------------|--------|
| Orange | Yellow |
| Excellent Color | Green |

The color settings should look exactly like this:



_6. Click Done



_7. On the Dashboard, Toolbar click the **Save** icon to save your work!



2.2.3 Create "Approvals by Industry" Chart

This hierarchical pie chart will show the state of the 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 twice

Group by 😑

_3. Enter the following keywords for the Group by entries:

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

Group by 📀

CO_ApprovalStatus (data) - (keyword)

CO_Industry (data) - (keyword)

_4. For chart, type select Hierarchical pie

Metric

Hierarchical pie



_5. Click Done



_6. On the Dashboard, Toolbar click the **Save** icon 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 |
| | |
| Client Onboarding Create chart | x |
| Name | |
| Services Subscription by Industry with Drilldowns | |
| Description (optional) | |
| | |
| | |
| Select measurement | |
| Metric Period metric KPI Period KPI | Data |
| 90. | |
| A performance indicator A representation of metric A type of metric that shows based on data items, constants, and of early values measured over time, business objectives are on structure of the constants and of the constants and other othe | A set of data items presented in a table. |
| ¢ | 2 |
| Cancel Create | |
| | |

 \sim

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 keywords for the *Group by* entries:

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

Drill down groups should look exactly like his:



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

| CO_Industry (data) - (keyword) | ~ |
|---|---|
| The following groups may be accessed by drilling-down into the chart: | |
| CO_ServicesRequested (data) - (keyword) | ~ |
| | |
| CO_AddressCountry (data) - (keyword) | ~ |

_4. For chart type, select Pie

Metric

Pie



2.2.4.2 Define Visualization Information

_1. Click Visualization tab



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

Pie settings

Unit

Drill-down Legend

_3. Click Done



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



2.2.4.3 Explore Drill-down capability









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

Note the breadcrumbs,

| Services Subscription by Industry with Drilldowns | ∥ ⊡ ⊾" × |
|---|----------------------------|
| | |
| 100.0% | Drill-down Leg ● Canada |

_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. In *Client Onboarding- Create chart* window, 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

```
Monitoring source
Workflow (Case) - Client Onboarding
```

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

Aggregation 📀

| Function | Data item | |
|----------|--------------------------------|---|
| Max 🗸 | CO_ServicesFee (data) - (long) | ~ |

_3. Click **Group by +** button

Group by 😑

_4. Enter CO_Industry (data) - (keyword)

Group by 📀



_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. On the Dashboard, Toolbar click the **Save** icon to save your work!

Your chart should look similar to this

Highest Service Fee by Industry Sector





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 ML service to score risk level) and serve as a suggestion for approvers. This may be an essential metric, indicating that the approver overrode the ML model decision. Therefore, the ML model may not have been accurate and may need re-training.

_1. Click chart +



_2. In *Client Onboarding- Create chart* window, 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

| Time interval | | | | | | |
|---------------|---|-------|---|-----------|-------|---|
| Custom | ~ | Every | 1 | Minute(s) | لرالح | ~ |

_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:

Filters 🔸

| Data item | | Operator | | Value |
|--------------------------------------|---|----------|-----|----------|
| CO_HighRisk (data) - (boolean) | ~ | = | ~ | true |
| | | (| AND | |
| Data item | | Operator | | Value |
| CO_ApprovalStatus (data) - (keyword) | ~ | = | ~ | Approved |

2.2.6.3 Define Visualization Information

_1. Click Visualization tab

| Monitoring Filters | Visualization |
|--------------------|---------------|
|--------------------|---------------|

_2. For Bar settings, enter:

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

Trend settings





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

Your chart should look similar to this

| Approval Count of | Prediction 🖉 | ^م ۵ | × | | |
|-------------------|-------------------------|----------------|------------------------|---|---|
| | 🔵 Workflow (Ca | se) Client (| Dnboarding | | |
| Approvals | | | | | |
| 0.6 | | | | | |
| | 10/18/2021, 11:35:51 PM | 1 | 10/21/2021, 8:15:11 AM | 8 | |
| | | Date | | | L |

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

You will be creating Average Approval Confidence by Industry Sector and Revenue bubble chart. The bubble color will indicate the industry. The bubble size will indicate how many cases were hander 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. In *Client Onboarding- Create chart* window, 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)

CO_Industry (data) - (keyword)

 \sim

_4. Click the Aggregation + button twice to add two Aggregations



Note that two Aggregations were added below Count

Aggregation

| Function | | Data item | |
|----------|---|----------------------------------|--------|
| Count | ~ | Select a data item | \sim |
| | | | |
| Sum | ~ | CO_AnnualRevenue (data) - (long) | \sim |
| | | | |
| Sum | ~ | CO_CompanyAge (data) - (long) | \sim |

_5. 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) |

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

| Function | | Data item | | | | |
|----------|---|--------------------|--------|------------|---|---|
| Count | ~ | Select a data item | \sim | \uparrow | Ŷ | Ū |

Your Aggregations setting should look exactly like this:

Aggregation

| Function | | Data item | | | | |
|----------|---|------------------------------------|--------|------------|--------------|---|
| Average | ~ | CO_AnnualRevenue (data) - (long) | ~ | \uparrow | \downarrow | Ū |
| Average | ~ | CO_RiskConfidence (data) - (float) | ~ | ↑ | Ļ | Ū |
| Count | ~ | Select a data item | \sim | ↑ | \downarrow | Ū |

2.2.7.2 Define Visualization Information

_1. Click Visualization tab

| Monitoring Filters Visualization |
|----------------------------------|
|----------------------------------|

_2. For Bubble settings, enter:

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

Bubble settings

| X axis label | |
|-----------------------------------|--|
| Average Company Revenue | |
| Y axis label | |
| Average Approval Confidence Level | |
| | |

_3. Click Done



_4. On the Dashboard, Toolbar 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 +



_2. In *Client Onboarding- Create chart* window, 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 context



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



Donut

2.2.8.2 Define Visualization Information

_1. Click Visualization tab



_2. For Donut settings, set Unit to Activity

Donut settings

Unit

Donut

Activity

_3. Click Done



_4. On the Dashboard, Toolbar click the **Save** icon 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. 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 the KPI Predictions are not based on ML. Depending on the data, KPI Prediction uses the following algorithms: ARIMA, Seasonal ARIMA, or Exponential Smoothing.

_1. Click chart +



_2. In *Client Onboarding- Create chart* window, 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

Time interval

| Custom V Every I Minute(s) | Custom | ~ е | very 1 | Minute(s) | -fmj | ~ |
|----------------------------|--------|-----|--------|-----------|------|---|
|----------------------------|--------|-----|--------|-----------|------|---|

_3. Click Targets + button



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

| Targets 📀 | |
|-----------|-------|
| Label | Value |
| Target | 3 |

_5. For visualization, select **Bar**

Period KPI

Bar

2.2.9.2 Define Filters

_1. Select Filters and predictions tab

Monitoring Filters and predictions Visualization Thresholds

_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:

| Filters 😣 | | | | | |
|-------------------|---|----------|---|----------|--|
| Data item | | Operator | | Value | |
| type - (keyword) | ~ | = | ~ | case | |
| | | AND | | | |
| Data item | | Operator | | Value | |
| state - (keyword) | ~ | = | ~ | Complete | |

_4. Enable Predictions

Prediction

Prediction on

2.2.9.3 Define Visualization Information

_1. Click Visualization tab

| Monitoring | Filters | Visualization |
|------------|---------|---------------|

_2. For Trend settings, enter:

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

Trend settings

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

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

_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 | Т2 | |
| | Value | 5 | |
| | Range name | High | |

Your Thresholds setting should look exactly like this:

Thresholds 📀

| Threshold name | Value | Range name | Start | End |
|----------------------|-------|------------|-------|-----|
| Case Completion Rate | 2 | Low | min | 2 |
| | | Range name | Start | End |
| | | Normal | 2 | 5 |
| Threshold name | Value | Range name | Start | End |
| Т2 | 5 | High | 5 | max |

_4. Click **Purple Color patch** and then select **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 threshold Case Completion Rate is selected



Case Completion Rate 🗸 🚽

_3. Configure the alert using input values shown below

| Item | | Value | |
|--|----|--|-------------------|
| Alert if the value | | Drops to or below the threshold | |
| Message | | The case completion rate is low. | |
| Alerts 💿 | | Case Completion Rate 🗸 ——————————————————————————————————— | |
| Alert if the value | Me | ssage | |
| drops to or below the threshold \sim | | Case completion rate is low. | ^ <i>¥//</i> . |
| Priority | | | |
| High ~ | | | |

_4. Click Done



_5. On the Dashboard, Toolbar click the **Save** icon to save your work!

Your chart should look similar to this



2.2.10 Create "Approvals by Industry Heatmap" Chart

You will be creating Approvals by Industry heatmap chart. The tile color intensity will 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 Approval by Industry chart, click the **ellipses** and select **Copy**

_2. On the BPC main toolbar, click Paste

| | | | | | | Ċ |) adm | in |
|------|-------|-------|-------------------|-----|----------|---|-------|----|
| Ø | [t. | 6 | C Refresh | Q O | 4 | 0 | Chart | + |
| .7 × | Paste | N ann | lication approval | e/ | | ß | r. ۲ | × |

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

_4. Click Edit configuration



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

| Client Onboarding Completed Edit chart | d | | | × |
|---|---|--|--|--|
| Name Approvals by Industry I | Heatmap 🗳 | | | |
| Description (optional) | | | | |
| | | | | |
| Select measurement | | | | ///, |
| Metric • | Period metric | KPI | Period KPI | Data |
| A performance indicator based on data items, constants, and other | A representation of metric values measured over time. | A type of metric that shows the degree to which business objectives are on | A representation of KPI values measured over time so that you can spot | A set of data items presented in a table. |
| Cancel | | Apply | | b |

2.2.10.1 Define Monitoring Information

_1. For visualization, select Heat Map

Metric

Heat Map



_2. Click Done



_3. On the Dashboard, Toolbar click the **Save** icon 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. In *Client Onboarding- Create chart* window, enter the following, and then click **Create:**

| Item | | | Value | | |
|---|---|--|--|--|---|
| Name | | | Client Onbo | parding Data | а |
| Select me | asurement | | Data | | |
| Client Onboarding Complete Edit chart | sd | | | × | < |
| Name | | | | | ^ |
| Description (optional) | | | | | |
| Select measurement | | | | | |
| 90% | Period metric | | Period KPI | Data | |
| A performance indicator based on data items, constants, and other metrics that helps you monitor your business activities. | A representation of metric values measured over time. | A type of metric that shows the degree to which business objectives are on track. | A representation of KPI values measured over time so that you can spot historical trends. | A set of data items presented in a table. | |

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

| Monitoring | Filters | Visualization |
|------------|---------|---------------|
| | | |

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



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:

| Data item | | Operator | | Value |
|----------------------|--------|----------|-----|----------|
| category - (keyword) | \sim | = | ~ | icm |
| | | | AND | |
| Data item | | Operator | | Value |
| type - (keyword) | ~ | = | ~ | case |
| | | | AND | |
| Data item | | Operator | | Value |
| state - (keyword) | ~ | = | ~ | Complete |

2.2.11.3 Define Visualization

_1. Select Visualization tab

| Monitoring Filters | Visualization |
|--------------------|---------------|
|--------------------|---------------|

_1. Click the **Data columns +** button **5 times** to add five data columns



_2. 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:

Data columns 😣

| Data item | | Label | | | |
|--------------------------|---|-------------|------------|--------------|---|
| CO_ServicesFee (data) | ~ | Service Fee | | \downarrow | Ū |
| CO_Industry (data) | ~ | Industry | ¢ | \downarrow | Ū |
| CO_AddressCountry (data) | ~ | Country | \uparrow | \downarrow | Ū |
| CO_ApprovalStatus (data) | ~ | Approved? | Ŷ | \downarrow | Ū |
| duration-seconds | ~ | Duration | \uparrow | \downarrow | Ū |

_3. Click the **Service Fee** column to sort the data by the Service Fee column.

Duration



| Service Fee | Industry | Country | Approved? |
|-------------|----------|---------|-----------|
|-------------|----------|---------|-----------|

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 |

_4. Click Done



_5. On the Dashboard, Toolbar click the **Save** icon to save your work!

The chart should look similar to this

| Client Onboarding [| Data | | ∠ r | Cort to TSV |
|---------------------|------------|--------------|-----------|-------------|
| Service Fee 🚿 | Industry | Country | Approved? | Duration |
| 220,000 | Healthcare | USA | Approved | 712 |
| 70,000 | Insurance | Canada | Rejected | 686 |
| 64,600 | Insurance | Australia | Rejected | 878 |
| 64,600 | Insurance | Australia | Rejected | 619 |
| 60,000 | Healthcare | South Africa | Approved | 81 |
| | | | | L |

Note:

- You can sort the data in the chart. For example, in the screenshot above, the chart is sorted by • 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:

| Details | Goal specification |
|--|--------------------------------|
| Name | Goal classification (optional) |
| Focus Corp's top Client Onboarding KPI | Enter category |
| Description (optional) | Priority |
| Focus on the three top KPI identified by senior management team. | 🔵 Low 🔵 Medium 💽 High |
| | Start date |
| | Now Custom |
| Goal color | 10/25/2021 |
| | |

_9. Click Save



2.2.12.2 Set business goal for selected charts

_1. Click **Dashboards**



_2. Click Client Onboarding dashboard



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

| Average Revenue from Service Fees for Approved Client | S | ⊮ [⊅] : |
|---|------|------------------|
| | Edit | -fm |

_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** Your dashboard should now look similar to this:

| ← Client Onboarding Only me Owner: cp4badmin | Ø | [⁶] | 6 | Refresh | Ô Ô | 4 3 8 | Q | Chart | |
|---|-------------|------------------|------------|----------------|------------------------|--------------|-------|------------------|---|
| Business Goal Focus Corp's top Client Onboarding KPI Completed | | | | | | | | ي ^م ي | Ì |
| Average Revenue from Service Fees for Approved Clients ω^n : | Highest | Service | Fee by I | ndustry Sector | | | | يم م | |
| | Maxim 70 | im Servic | e Fee [\$] | | | | | | |
| Average Target | 60 | 000 | | | | | | | |
| Poor Extellent 0 198000 | 40 | 000 | | | | | | _ | |
| 31,064.29 | 30 20 | 000 | | | | | | | |
| s Poor min-30000 Average 30000-80000 Excellent 80000-max | 10 | 000 | | | | | | | |
| | | | Federal | Finance | Healthcare Industry | Insurance | Teleo | m | |

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 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



2.2.13.2 Expand Chart Average Approval Confidence by Industry Sector and Revenue

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



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



_3. On the Dashboard, Toolbar click the **Save** icon 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. On the Completed Cases per Day, Chart click the ellipses and then select Show Predictions



You should now see the predicted case completion rate information



2.2.14.2 Dashboard Alerts

_1. Click the **Alert** icon in the toolbar on top of 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.

| 6 | | Refresh | Õ Ō | ¢ 8 | 0 | Chart | + |
|----------------------|---|--|-----------|----------------|---------|-----------|---|
| AL | erts | | 8 pr | High iority | | | × |
| 8 | 3 | | | | | | |
| | High (8) | Me | edium (0) | | Low (0 |)) | |
| TI 11 Ca Ca | he KPI valu 1/1/2021, 3:3 ase completio ompleted Cas | e went below th 0:00 PM n rate is low. es per Day | e thresho | ld "Case (| Complet | ion Rate" | ^ |

Because this is a shared environment, you may see more alerts generated when other users work on the Client Onboarding case.

2.3 Summary

In the labs, you learned how to build and use the Business Performance Center dashboard to 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.