

IBM Business Automation Manager Open Editions

Demos and Labs 2025

IBM Business Automation Manager Open Editions
Canvas and Deployment on Kubernetes

V 1.0 (for IBM BAMOE 9.2)

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1 Introduction

This hands-on lab is designed to guide you through the essential aspects of process automation using BAMOE Canvas. Whether you are a developer or an architect, these labs will equip you with the skills needed to leverage BAMOE Canvas for modern, cloud-native business automation solutions effectively.

Includes four exercises. We recommend performing them sequentially.

Duration: Approximately 1,5 hours (each exercise lasts about 30 minutes).

Audience: Anyone who wants to learn how to use IBM Business Automation Manager Open Editions.

1.1 IBM Business Automation Manager Open Editions

IBM Business Automation Manager Open Editions (IBM BAMOE) is a powerful open-source solution that serves as a foundation platform for tailoring long-lasting business automation solutions for the hybrid cloud.

With a developer-centric approach, this comprehensive and flexible platform makes it easy for teams to collaborate through Open Standards and efficient development tools suited for different personas. Each automation solution can be shaped to perfectly address each scenario: business applications are flexible and can effortlessly integrate with external systems of your existing architecture.

Designed for the hybrid cloud, IBM Business Automation Manager Open Editions, accelerates the application modernization and cloud adoption journeys, as the lightweight design tools, business applications and other product components can be containerized and deployed with popular technologies such as Kubernetes and OpenShift.

For more information, see IBM documentation and other useful links:

- [IBM Business Automation Manager Open Editions Documentation](#)
- [Open Editions Community](#)
- [BAMOE University](#)

2 Lab Setup Instructions

2.1 Access the environment

You received this email with instructions on how to access the environment using your IBMID.

If necessary, this is the Windows credential:

```
User: techzone  
Password: IBMDem0s!
```

2.2 About the environment

This environment was built based on the [official product documentation](#), so be sure to check it out for more information about the new BAMOE Version 9.2.

We will be updating this environment with new materials and resources as often as possible.

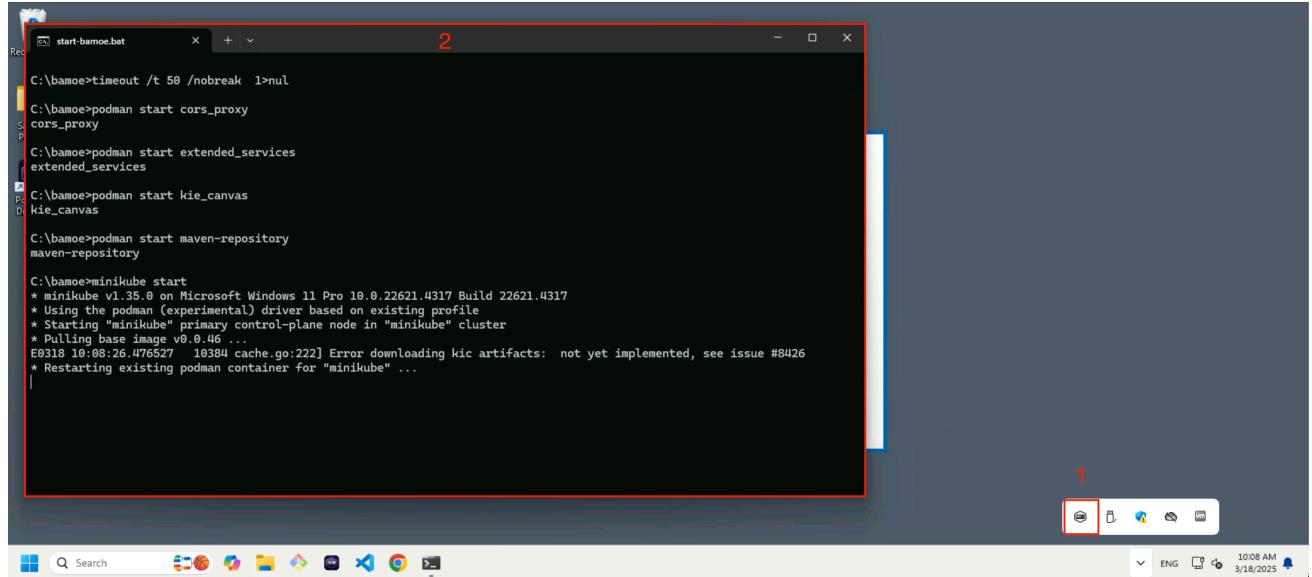
IBM BAMOE was installed and configured locally, using Podman and Minikube. The configurations were based on the official product documentation: [Running locally with Docker](#) or [Running locally with Docker Compose](#).



2.3 Prerequisites

Once your VM starts, wait a few minutes for the Podman Machine to start running, then a .bat file will be executed to start all the containers needed to use BAMOE. See the reference for each of them:

2.3.1 Podman Machine and .bat file:



```
C:\bamoe>timeout /t 50 /nobreak 1>nul
C:\bamoe>podman start cors_proxy
cors_proxy

C:\bamoe>podman start extended_services
extended_services

C:\bamoe>podman start kie_canvas
kie_canvas

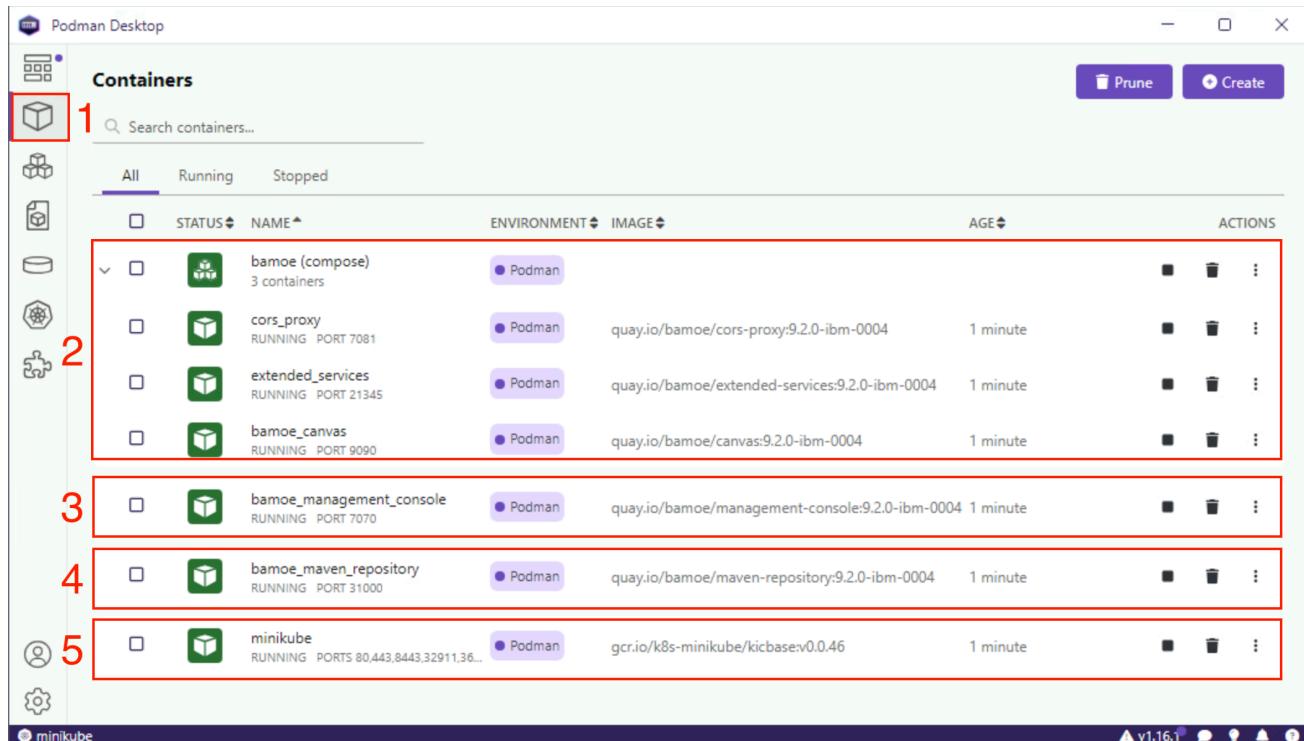
C:\bamoe>podman start maven-repository
maven-repository

C:\bamoe>minikube start
* minikube v1.35.0 on Microsoft Windows 11 Pro 10.0.22621.4317 Build 22621.4317
* Using the podman (experimental) driver based on existing profile
* Starting "minikube" primary control-plane node in "minikube" cluster
* Pulling base image v0.0.46 ...
E0318 10:08:26.476527 10384 cache.go:22] Error downloading kic artifacts: not yet implemented, see issue #8426
* Restarting existing podman container for "minikube" ...
```

Item	Description
1	Icon shows that the podman machine is already running. For more details just open Podman Desktop.
2	This file " <i>start-bamoe.bat</i> " contains the commands to start all Podman containers. In the next step, you will see how to check the status of each one. Remember: if you reboot your VM, you must wait until all services are up and running.

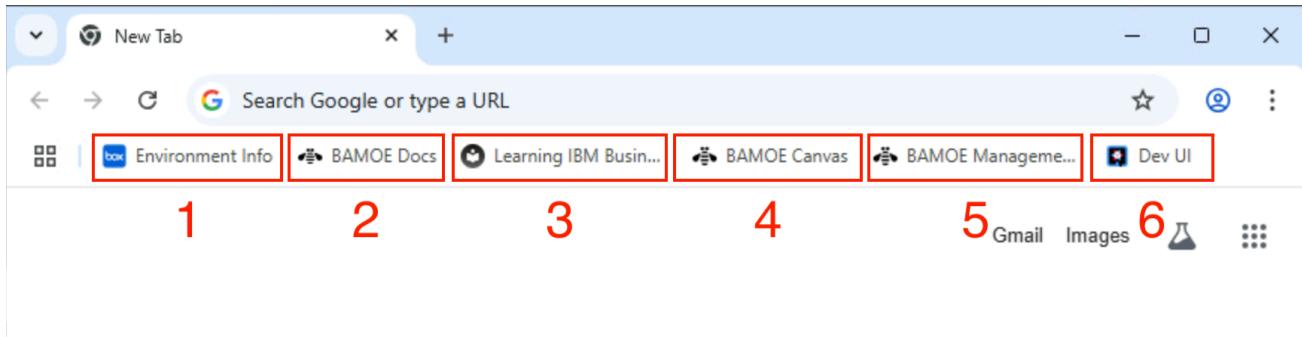
2.3.2 Check Podman containers:

Open Podman Desktop (available on your desktop) to check the important containers that are running:



Item	Description
1	In the side menu, select the 2nd button ("Containers")
2	Container Group "bamoe (compose)": This set of running containers are the 3 images required to run BAMOE Canvas. Reference: " Installing BAMOE Canvas "
3	Container "bamoe_management_console" BAMOE Management Console is an admin tool for managing Workflow applications. Reference: " Installing BAMOE Management Console "
4	Container "bamoe_maven_repository": Repository that stores Maven artifacts, which you can deploy to your infrastructure. Reference: " Intalling BAMOE Maven repository "
5	Container "minikube": To deploy your project via BAMOE Canvas, a Minikube cluster has been created and must also be running. Next, you will see how to connect your Canvas to the Minikube Cluster.
Recommendation	<i>Make sure the containers are running, if not, try starting them manually (by clicking on the "actions" menu or by command line).</i>

2.3.3 Useful links:



Item	Description
1	"Environment Info": Access this document available in Box.
2	"BAMOE Docs": Access the official product documentation.
3	"Learning IBM Business Automation Open Edition": A great guide for users who are trying IBAMOE for the first time. Recommended getting started guide.
4	"BAMOE Canvas": You can access BAMOE Canvas through the URL: http://localhost:9090
5	"BAMOE Management Console": You can access BAMOE Management Console through the URL: http://localhost:7070
6	"Dev UI": For projects run by VS Code, you can access the Dev UI via the URL: http://localhost:8080/q/dev-ui

2.4 Exploring the Features of BAMOE Canvas

IBM has been investing a lot of time and effort into improving Canvas into a full-featured authoring tool for decisions and processes. In this lab, we will use BAMOE Canvas in **Google Chrome**. You will explore examples of a DMN model and a BPMN model, as well as some of the features found in them, and then deploy it to a Minikube cluster.

- Open Google Chrome, and access BAMOE Canvas via the URL: <http://localhost:9090>

The screenshot shows the BAMOE Canvas interface. At the top right, there is a navigation bar with a dropdown menu labeled 'Dev Deployments' (callout 1), a gear icon, and a user profile icon. Below the navigation bar, there are two main sections: 'Create' and 'Import'. The 'Create' section contains two boxes: 'Workflow' (callout 2) and 'Decision' (callout 3). The 'Workflow' box contains a sub-section for BPMN files and a 'New Workflow' button. The 'Decision' box contains a sub-section for DMN files, a note about a new editor available, and 'New Decision' and 'Try sample' buttons. The 'Import' section contains two boxes: 'From URL' (callout 4) and 'Upload' (callout 5). The 'From URL' box has a 'URL' input field and an 'Import' button. The 'Upload' box has a 'Select files...' and 'Select folder...' button. At the bottom left, there is a 'Recent models' sidebar (callout 6) containing three entries: 'Ephemeral' (6 files, 1 models), 'test' (Created: 18 days ago, Last updated: 18 days ago), and 'Sample' (Decision) (Created: 18 days ago, Last updated: 18 days ago).

Item	Description
1	<ul style="list-style-type: none">• Dev deployments – any deployment from this instance of Canvas to a connected Kubernetes or OpenShift cluster.• The radar logo is the connection to Extended Services which provides the DMN model runner for sample execution.• The gear 🌐 logo provides settings for your Canvas instance, including the version of DMN modeling (DMN 1.5 is the default for 9.1 forward). The location of the CORS proxy so that your Canvas instance can interact with your Git provider. Lastly, the location of the Extended Services service.• Lastly, the human logo is for configuring your connected profiles for the Canvas environment. This will be for Git and Kubernetes/OpenShift. We will explore this later.
2	Create a new BPMN 2.0 workflow from scratch or open the sample
3	Create a new DMN 1.5 model from scratch or open the sample
4	Import projects from remote git repositories
5	Upload a file or folder directly to work within the browser
6	Templates you imported or created in the provided browser. Unlike anyone else, everything is stored locally in your browser storage.

3 Exercise 1: Exploring Decisions with BAMOE Canvas

In this section, we are going to touch on some of the features of the Canvas editor. First, we're going to look at the DMN sample.

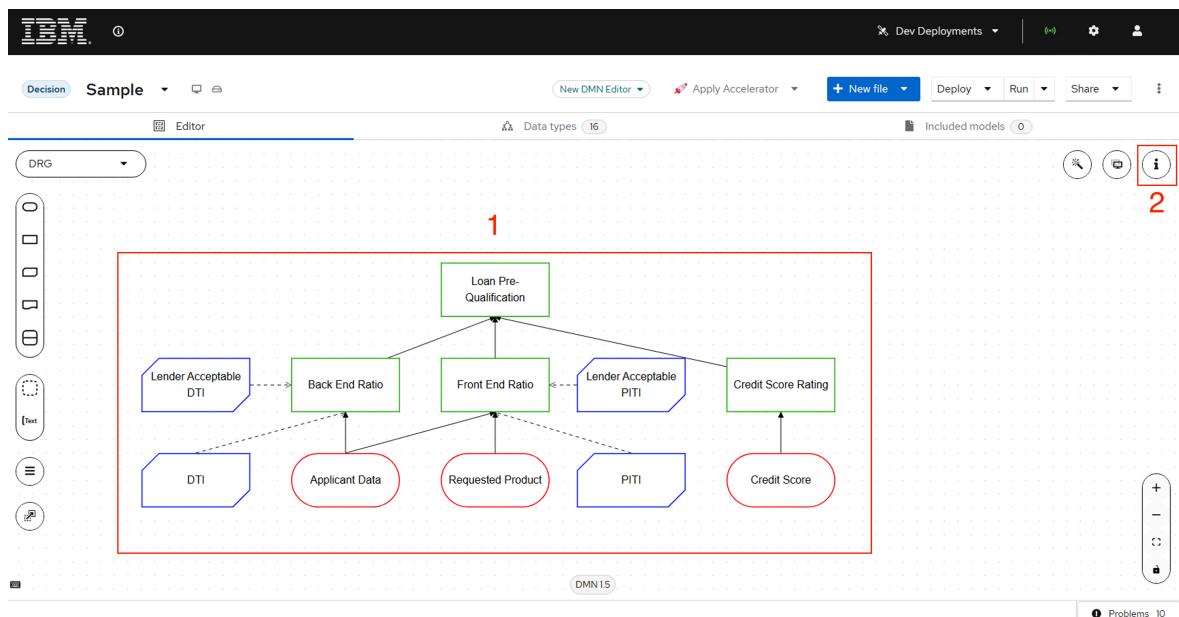
See some important links and learn more about DMN:

- [DMN in 15 minutes](#)
- [Manual DMN FEEL](#)

The screenshot shows the IBM BAMOE Canvas interface. On the left, under 'Create', there are two tabs: 'Workflow' (selected) and 'Decision'. Below them are buttons for 'New Workflow' and 'Try sample'. A red box labeled '1' highlights the 'Try sample' button. On the right, under 'Import', there are options for 'From URL' (with a 'New Editor available!' button), 'Upload' (with a 'Drag & drop files and folders here...' area), and file selection buttons ('Select files...', 'Select folder...'). A red box labeled '2' highlights the 'Import' button.

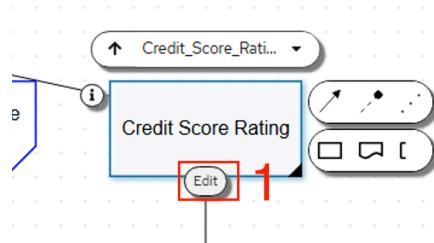
Item	Description
1	Let's use the example available in " Try sample ".

When you open the Sample, you will see a DMN 1.5 model for Loan Pre-qualification:



Item	Description
1	Explore the different elements of the DMN diagram: <ul style="list-style-type: none">• Input Nodes: "Applicant Data" and "Credit Score"• Decision Nodes: "Loan Pre-Qualification"• Business Knowledge Model Nodes (BKM)

2	The properties of each element can be accessed by clicking this button	
---	--	--



Item	Description
1	Click on the " Credit Score Rating " square and then click the " Edit " button to visualize the logic in the Credit Score Rating decision.

Item	Description
1	This decision node was defined as a " Decision Table ", where depending on the " FICO " value it will have its corresponding " Credit Score Rating ".
2	Click the " Run " button to simulate the model.
3	Here you can simulate your rules by informing the model inputs.
4	Instantly, you can see the result (output) of each decision node.
5	Look at the " Credit Score Rating " output, test some values and compare with the decision table.
6	During your simulations, you may have come across some validation, for example. This happens because the data type has a treatment, see below:

The screenshot shows the IBM Modeler interface with the 'Data types' tab selected. A specific data type, 'FICO', is highlighted. Three numbered callouts point to specific features: 1 points to the 'Is collection?' toggle, 2 points to the 'Credit Score' entry, and 3 points to the 'Range' constraint tab.

Item	Description
1	Navigate to the " Data types " tab, here all the data involved in the model are listed.
2	Select the " Credit Score "
3	Note that here you can configure some things for that data. In this case, a " Range " was configured, click to see more...
4	<p>Note how the range was configured, that is, this data accepts values from 300 to 850.</p> <p>Constraints</p> <p>None Expression Enumeration Range</p> <p>Start 300</p> <p>The starting value will be included in the range.</p> <p>End 850</p> <p>The ending value will be included in the range.</p> <p>Equivalent FEEL expression: [300..850]</p>

Explore the model settings further and try to understand how the rules were created. To proceed to the next exercise, click on the IBM logo.



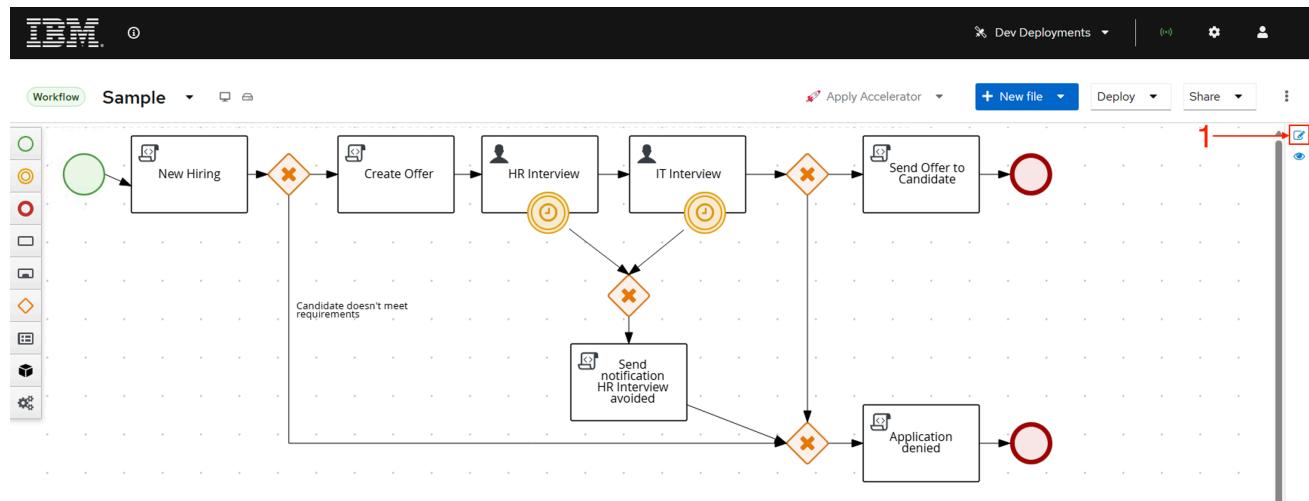
4 Exercise 2: Exploring Workflow with BAMOE Canvas

In this exercise, we will explore the BPMN example and then deploy the application to the Minikube cluster.

The screenshot shows the IBM BAMOE Canvas interface. On the left, under 'Create', there are two tabs: 'Workflow' (selected) and 'Decision'. The 'Workflow' tab has a sub-section for BPMN files used to generate business workflows. It includes a 'New Workflow' button and a 'Try sample' button, which is highlighted with a red border. The 'Decision' tab has a sub-section for DMN files used to generate decision models, also with a 'New Decision' button and a 'Try sample' button. On the right, under 'Import', there are options to import from a URL or upload files, both with their respective input fields and 'Import' buttons. Below these are sections for selecting files or folders. At the bottom, there is a 'Recent models' section listing 'Sample' (a BPMN file created 16 hours ago), 'Ephemeral' (an Ephemeral model with 6 files, 1 models), and 'test' (a BPMN file created 19 days ago).

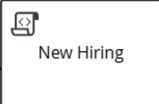
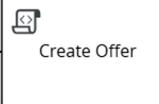
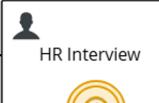
Item	Description
1	Click on "Try sample".

The sample BPMN process goes through a simplified hiring process.



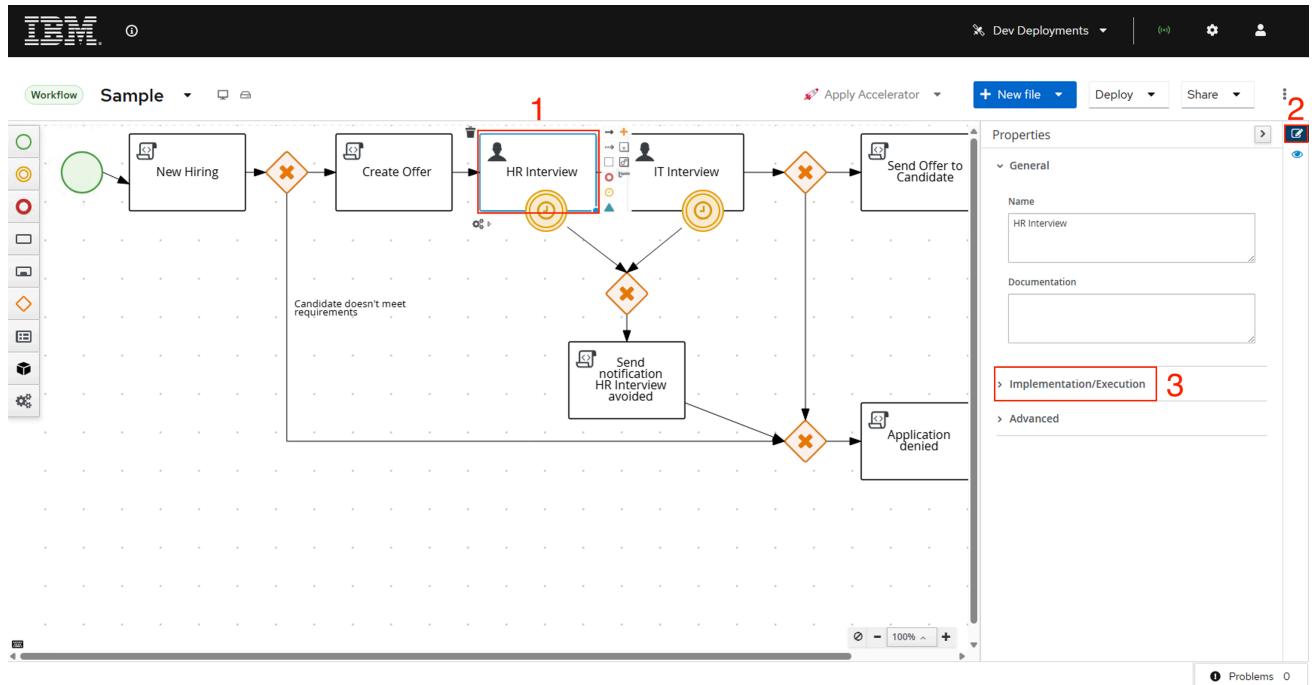
Item	Description
1	Click this button to see the properties of each element.

Explore the actions to understand more about the process:

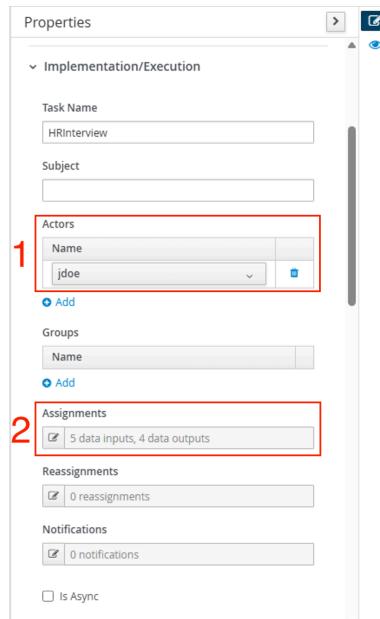
Item	Description
 New Hiring	At the beginning, an automated assessment of the candidate (in this case, via a scripted task) immediately determines whether they are eligible.
 Create Offer	Later, a base offer is created based on the information provided and the candidate's history. At this point, the offer is internal to the process and not visible to the candidate.
 HR Interview  IT Interview	Next, there are two user tasks: an HR interview and an IT interview. Both have timeout events that add an SLA to automatically deny hiring due to avoided interviews.
	In addition to the Activities that represent the work to be carried out, Gateways act as decision and flow control points in the process.

The other activities not mentioned act based on the result of the previous flow.

Explore the various nodes and their settings by clicking on a node and using the properties panel. For example:

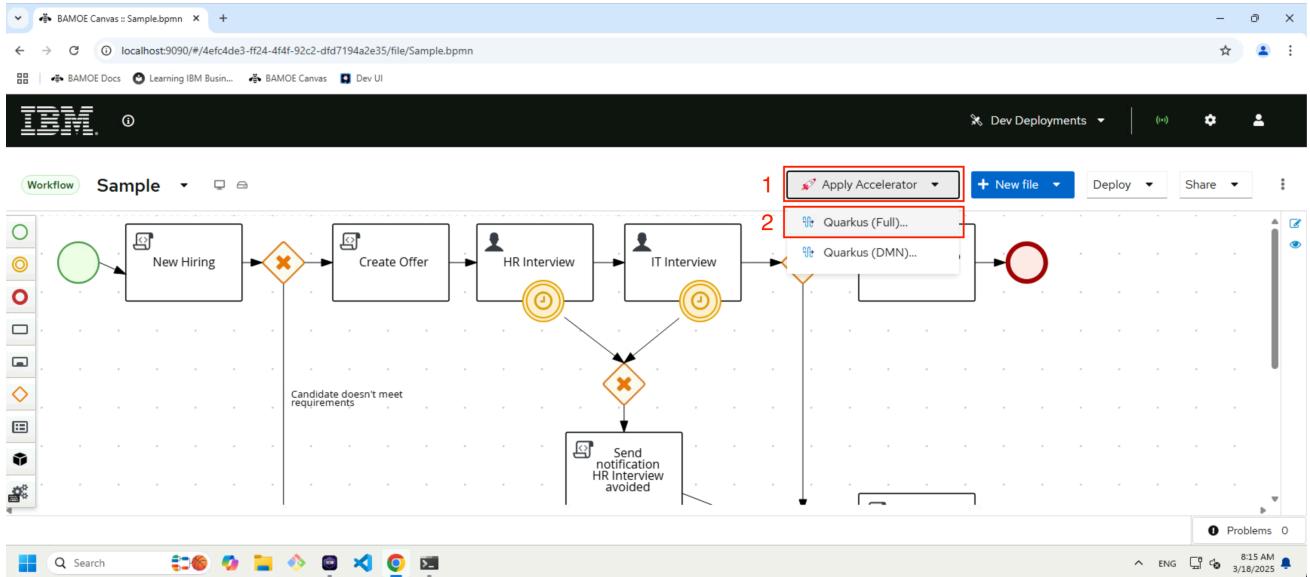


Item	Description
1	Select the "HR Interview" activity
2	Open the element properties
3	Open the "Implementation/Execution" tab



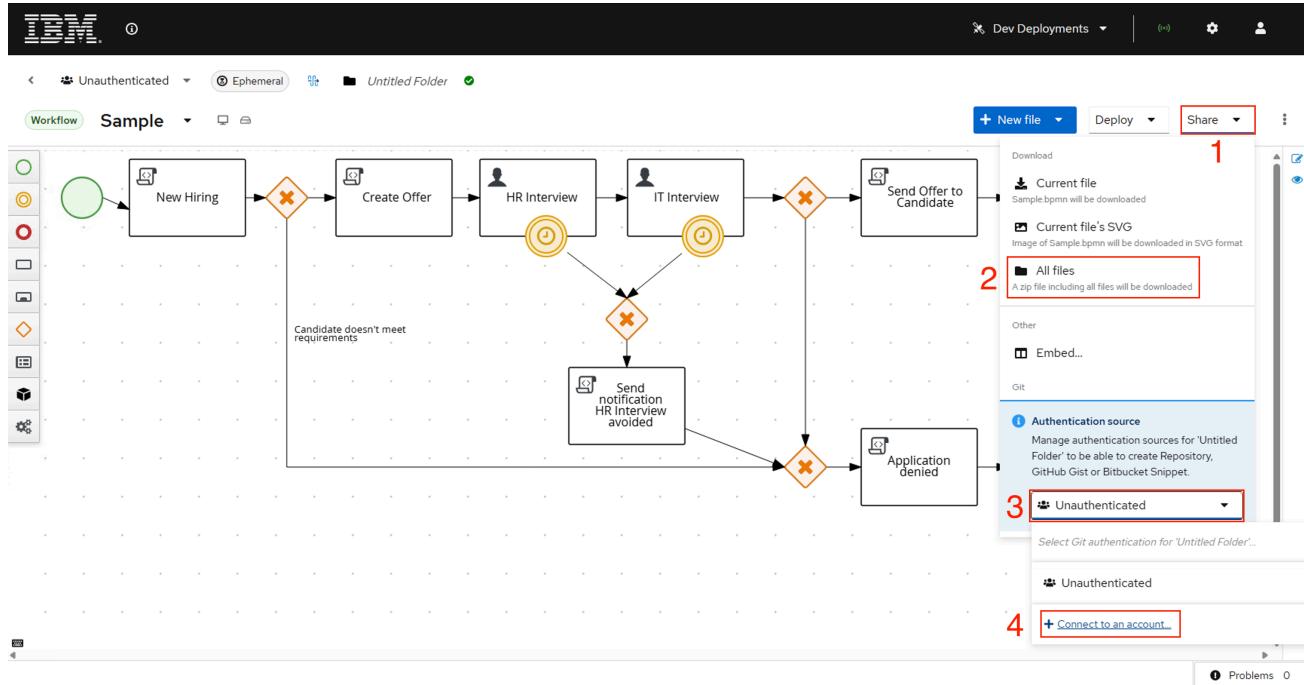
Item	Description
1	This task is assigned to the actor "jdoe"
2	In "Assignments" are the input and output data.

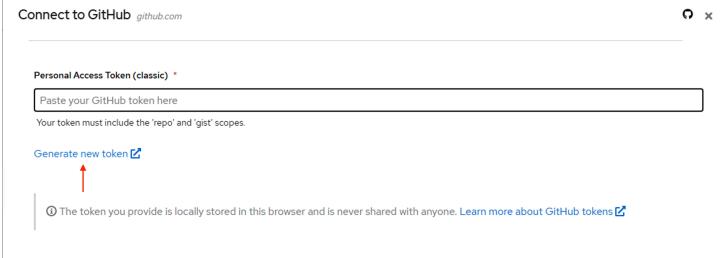
Before we move on to the next exercise, let's apply the Quarkus accelerator to create a browser storage project that can leverage the Kogito architecture.



Item	Description								
1	Access the "Apply Accelerator" menu								
2	And select the option "Quarkus (Full)..."								
3 - 1	<p>In the next box, just click "Apply"</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Quarkus (Full) Accelerator</p> <p>An Accelerator is a template. Applying it will move your current files according to the Accelerator specifications and create a new commit for it.</p> <p>This Accelerator is hosted at https://github.com/ibm/bamoe-canvas-quarkus-accelerator Git ref: @v.1.1-ibm-0003-quarkus-full</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 30%;">Decisions (.dmn) will be moved to:</td> <td style="vertical-align: top;">src/main/resources</td> </tr> <tr> <td>Score cards (.pmmi) will be moved to:</td> <td>src/main/resources</td> </tr> <tr> <td>Workflows (.bpmm, .bpmm2) will be moved to:</td> <td>src/main/resources</td> </tr> <tr> <td>Other files will be moved to:</td> <td>src/main/resources</td> </tr> </table> <p><i>This action is permanent. Any changes made after applying an Accelerator may result in your files being in different directories.</i></p> <p style="text-align: center;">1 Apply Cancel</p> </div> <p>Wait for the success message:</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>Successfully applied Quarkus (Full) Accelerator</p> </div>	Decisions (.dmn) will be moved to:	src/main/resources	Score cards (.pmmi) will be moved to:	src/main/resources	Workflows (.bpmm, .bpmm2) will be moved to:	src/main/resources	Other files will be moved to:	src/main/resources
Decisions (.dmn) will be moved to:	src/main/resources								
Score cards (.pmmi) will be moved to:	src/main/resources								
Workflows (.bpmm, .bpmm2) will be moved to:	src/main/resources								
Other files will be moved to:	src/main/resources								

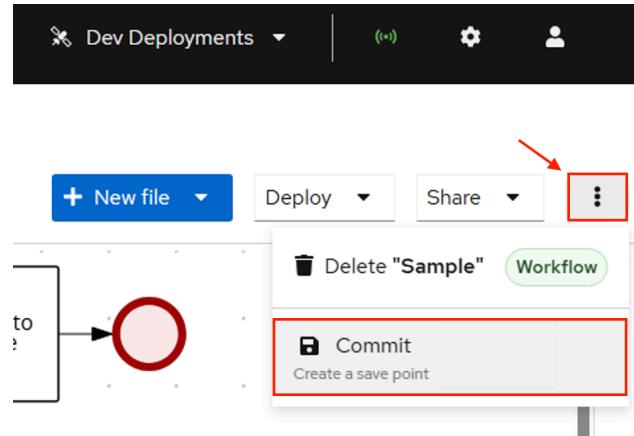
At this point, this Canvas project consists of just a BPMN file stored in the browser, which means that any changes will be lost if the browser's local storage is cleared. Therefore, it is important to work with projects and sync with GitHub.



Item	Description
1	You can click on "Share" and choose some options.
2	By clicking on "All files", you download the entire project. Then you can continue development in VS Code with the BAMOE Developer Tools extension.
3	To sync with GitHub, you must connect your account.
4	Click "Connect to an account..."
5	<p>Select option "GitHub"</p>  <p>For this Lab, you will not need to connect to your account, but if you wish, simply follow the instructions presented in the application itself.</p>  <p>The dialog box is titled "Connect to GitHub" and contains a field for "Personal Access Token (classic)". It includes a note about token scopes and a "Generate new token" button. A small note at the bottom states that the token is locally stored in the browser.</p>

Don't forget to create a save point after making changes to your model. This will also create an initial git commit within the filesystem, so it will prompt you for an initial commit message. Access it via the button  and click "Commit".

6



5 Exercise 3: Running on Minikube using Canvas Dev Deployment

Development Deployment is a Canvas feature that allows developers to share their decisions and processes with team members in OpenShift or Kubernetes. The benefits are:

- **Deploy with a click:** Easily deploy your business service to a local or remote Kubernetes or OpenShift environment directly from the Canvas web tool.
- **Real-time updates:** See changes to your project reflected immediately in the running application, for faster iteration and testing.
- **Simplified development:** Streamline your development process by eliminating the need for complex deployment procedures.

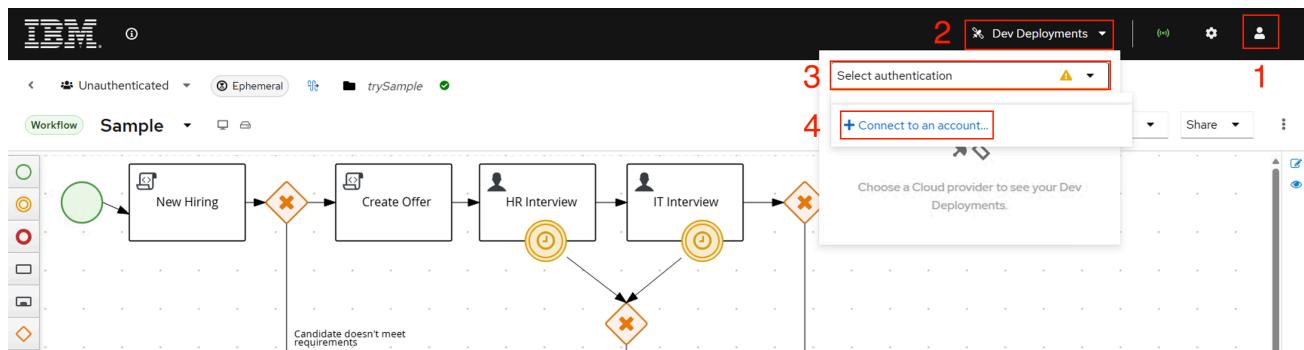
Have in mind that this capability is not intended for production. For production deployments, consider using proper deployment strategies for your Kubernetes / OpenShift environment.

By default, Canvas offers build templates. Templates allow you to create your own customized image and template projects.

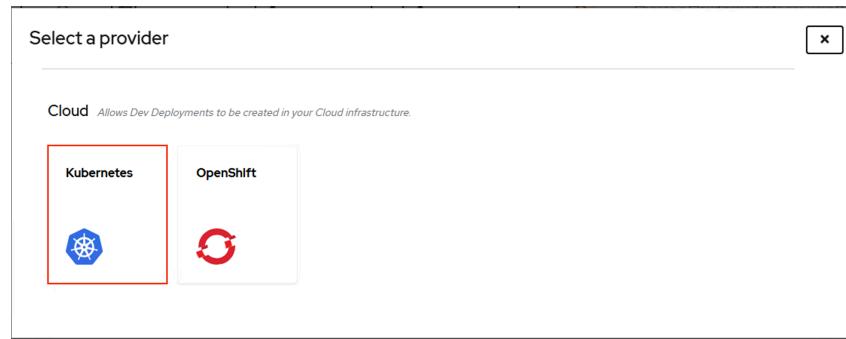
5.1 Connect to an Minikube Cluster

For this Lab, we will use a locally deployed Minikube cluster. In this chapter, you will see how to connect your Canvas to the cluster. Note that the configuration screens themselves provide instructions on how to perform the process.

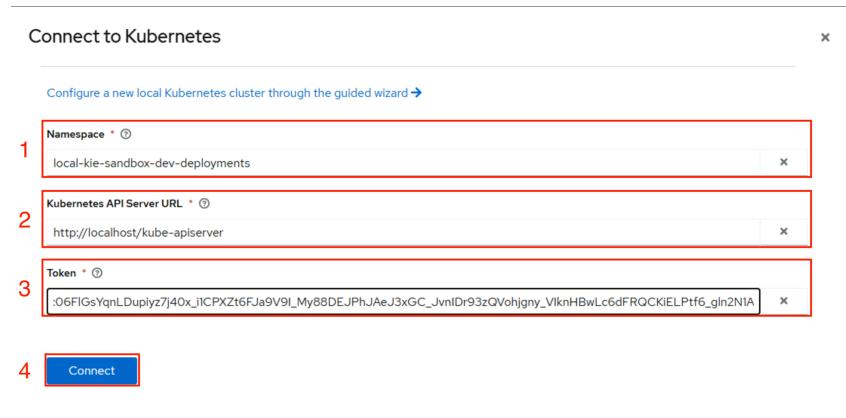
Let's continue with our Workflow example, worked on in [Exercise 2](#).



Item	Description
1	You can connect and see all connected accounts.
2	Or, you can click on " Dev Deployments "
3	Click on "Select authentication"
4	And select " Connect to an account... "

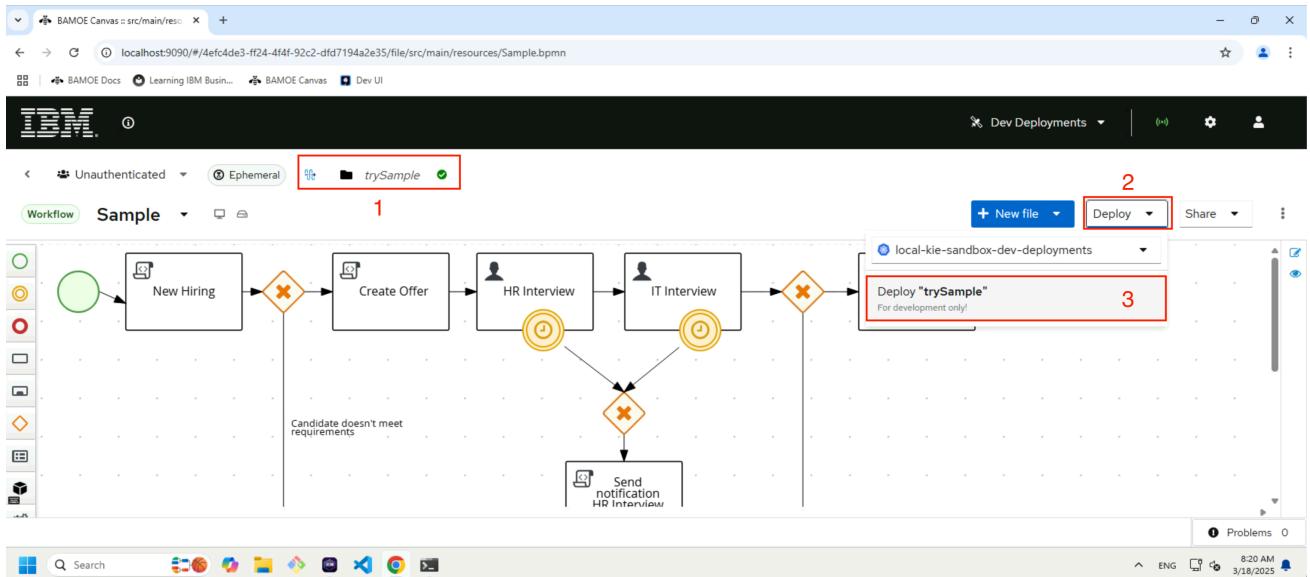


Item	Description
1	Select the " Kubernetes " option

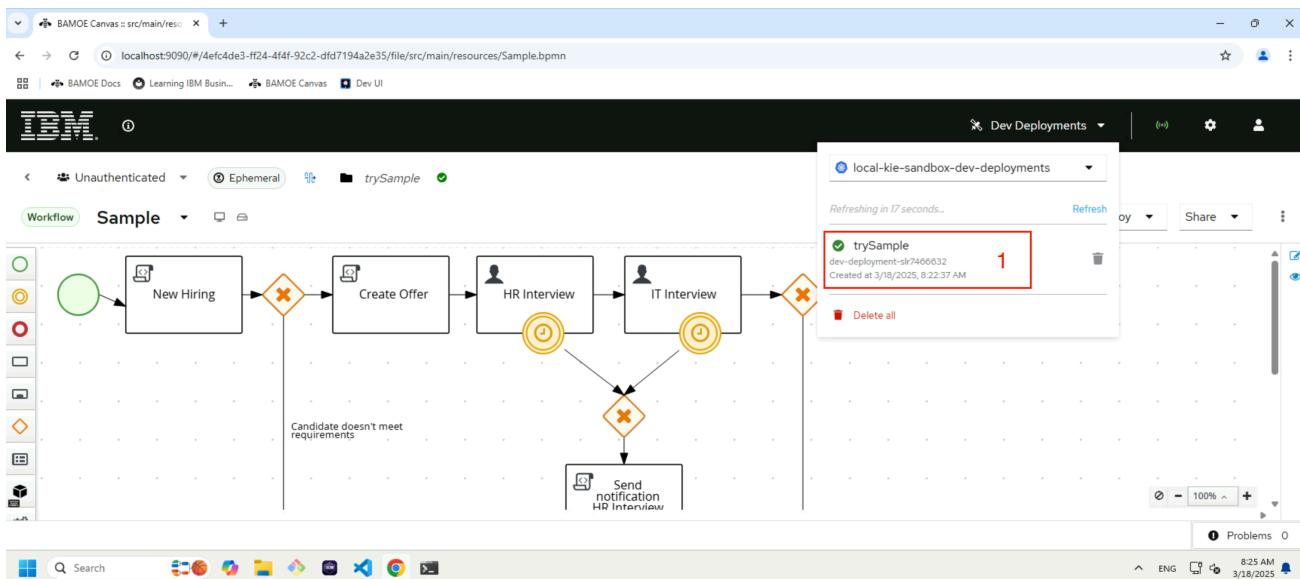


Item	Description
1	In the " Namespace " field, enter: local-kie-sandbox-dev-deployments
2	In the " Kubernetes API Server URL " field, enter: http://localhost/kube-apiserver
3	To get the " Token ", open a terminal and run this command, then copy and paste the result. \$KubeToken = kubectl get secret kie-sandbox-secret -o jsonpath="{.data.token}"; [System.Text.Encoding]::ASCII.GetString([System.Convert]::FromBase64String(\$KubeToken))
4	Click " Connect " and check the return successful message.

5.2 Deploying Workflow Sample



Item	Description
1	Enter a name for your project
2	Select the option “ Deploy ”
3	Then select the “ Deploy [your project name] ” button.
4 - 1	<p>In the next box, just leave the remaining information and click “Confirm”.</p> <p>Deploy</p> <p>This action can take a few minutes to be completed and you will need to create a new deployment if you update your model, as Dev Deployments are immutable.</p> <p>Choose your deployment option:</p> <p>Kogito Quarkus Blank App</p> <p><input type="checkbox"/> Include DMN Form Webapp Whether to deploy the DMN Form Webapp as a sidecar container or not</p> <p>This Dev Deployment will be created at the 'local-kie-sandbox-dev-deployments' namespace.</p> <p>You can use tokens with pre-computed values for your resources and parameters. Check a list of the available tokens below:</p> <p>> Tokens List 1</p> <p>Confirm Cancel</p>
5	<p>Wait a few minutes until the deployment is complete. It is important to note that in some cases a red alert may be displayed. In this case, wait for a new "Refresh" to obtain the new status.</p>



Item	Description
1	Once the deployment is complete, click on the project to access the Swagger UI.

The screenshot shows the Swagger UI interface for the 'dev-deployment-kogito-quarkus-blank-app API'. The URL is '/dev-deployment-slr7466632/q/openapi'. The interface lists two methods: 'GET /dev-deployment-slr7466632/hiring' and 'POST /dev-deployment-slr7466632/hiring'. Below the methods, there is a 'Parameters' section with a table. The table has two columns: 'Name' and 'Description'. There is one row with 'businessKey' as the name and 'Default value : string (query)' as the description. To the right of the table, there is a 'Try it out' button. A red box highlights this button. The bottom right corner shows the system status: '8:28 AM 3/18/2025'.

Item	Description
1 and 2	In this interface you can test the methods by clicking on " Try it out "
Request body	For this use case, enter the following data to get the DMN result "Hiring", then click "Execute": <pre>{ "skills": "Java", "candidate": "Raul", "experience": 2 }</pre>

The screenshot shows the OpenAPI UI interface. At the top, there's a header bar with tabs for 'BAMOE Canvas' and 'OpenAPI UI (Powered by Quarkus)'. Below the header, the URL is set to 'localhost/dev-deployment-slr7466632/swagger-ui/#/hiring/post_dev_deployment_slr7466632_hiring'. The main area is titled 'Request URL' with the value 'http://localhost/dev-deployment-slr7466632/hiring'. Under 'Server response', there's a table with two rows. The first row has 'Code' 201 and 'Details' 'Response body'. The second row has 'Code' 200 and 'Details' 'OK'. The 'Response body' section contains a red box around the JSON response:

```

{
  "id": "a1738ca4-9ee5-4a3a-9f55-67403876d613",
  "offer": "full",
  "bonus": 150,
  "category": "Software Engineer",
  "salary": 30000
}

```

The 'Response headers' section lists standard HTTP headers like 'access-control-allow-credentials', 'access-control-allow-origin', 'connection', 'content-length', 'content-type', 'date', and 'location'.

Item	Description
1	See if the response was successful (Code 200).

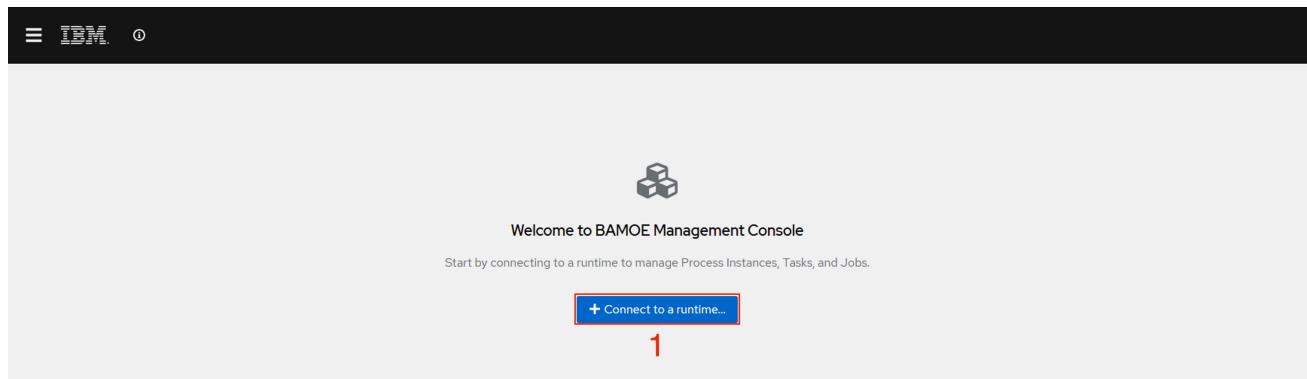
Since we have just implemented a Workflow example, in the next chapter we will use the BAMOE Management Console, which is an administration tool for managing Workflow applications.

6 Exercise 4: Example Workflow with the BAMOE Management Console

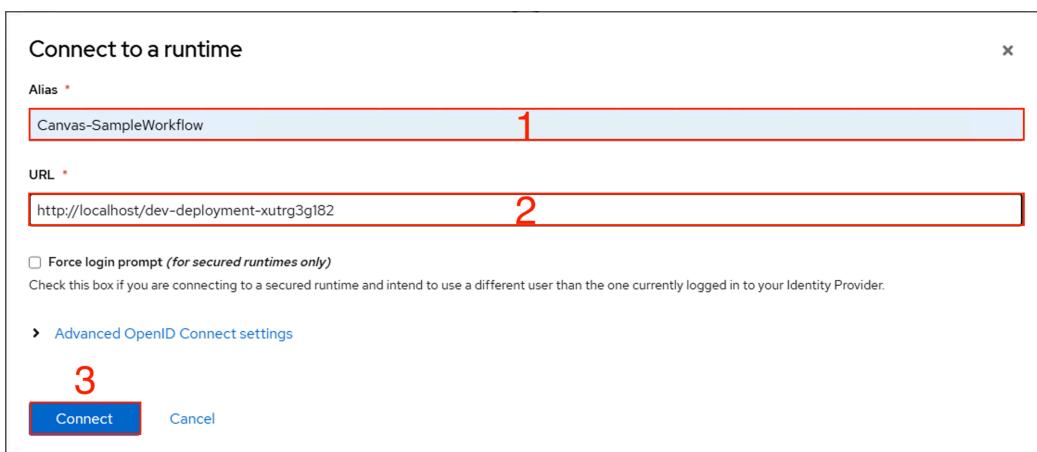
The BAMOE Management Console is a web application for viewing the status of all available business services and managing and interacting with process instances. We will now use it to manage and interact with process instances, complete user tasks.

Like Canvas, it is a container application and is already deployed in Podman.

- Go to <http://localhost:7070>

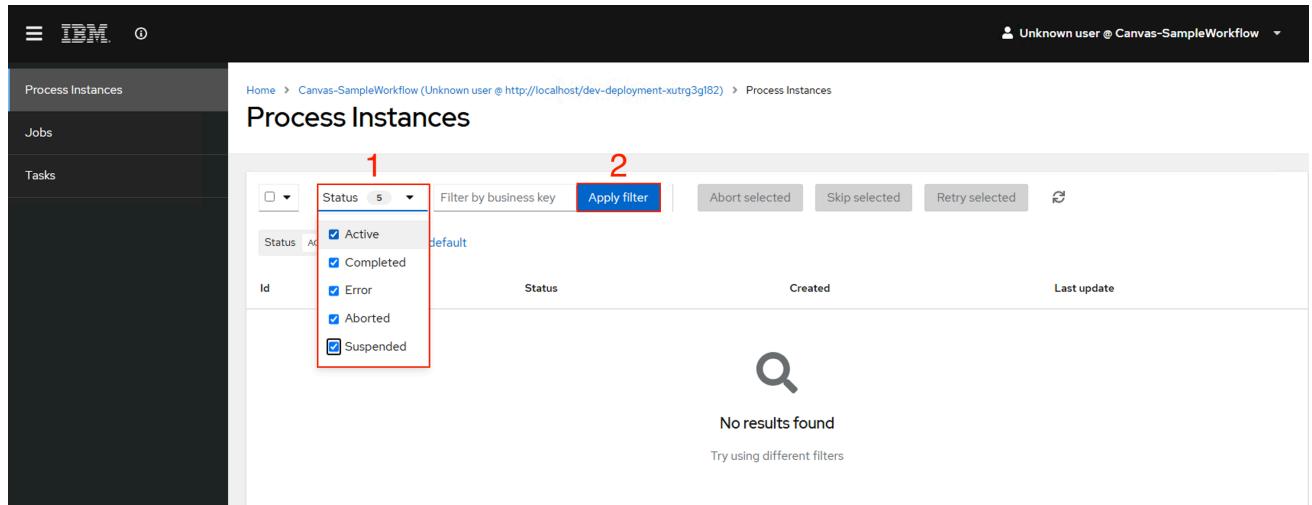


Item	Description
1	Click the button to connect to the runtime. To perform this exercise, you need to perform Exercise 3 , where we deployed a sample workflow.



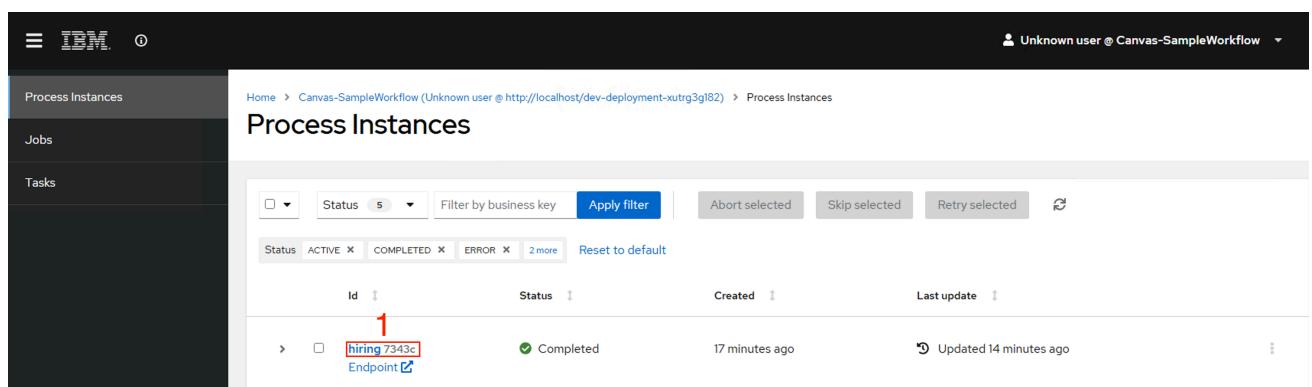
Item	Description
1	Enter an alias of your preference
2	To get the URL more easily, go back to the Swagger UI and get the root:  A red arrow points from the text "get the URL more easily" to the URL field in the Swagger UI screenshot.
3	Click " Connect "

Now that you are connected to the runtime, let's view the entire instance history. Update the filter to include all status options.



The screenshot shows the 'Process Instances' page in the IBM Cloudant interface. On the left, there's a sidebar with 'Process Instances' selected. The main area has a title 'Process Instances' and a navigation bar with 'Home > Canvas-SampleWorkflow (Unknown user @ http://localhost/dev-deployment-xutrg3gl82) > Process Instances'. Below the navigation is a search bar with 'Filter by business key' and an 'Apply filter' button. A dropdown menu labeled 'Status' is open, showing several status options: Active, Completed, Error, Aborted, and Suspended. The 'Active' option is checked. A red box highlights the 'Status' dropdown and the 'Apply filter' button. Another red box highlights the 'Suspended' option in the dropdown menu. The table below is empty, displaying the message 'No results found' and 'Try using different filters'.

Since you already made a request in [Exercise 3](#), then an instance should be found.



The screenshot shows the same 'Process Instances' page after applying the filter. The status dropdown now shows 'ACTIVE X', 'COMPLETED X', 'ERROR X', and '2 more'. A red box highlights the '2 more' link. The table below shows one row of data. The first column contains a checkbox and a link labeled 'hiring7343c'. The second column contains the status 'Completed' with a green checkmark. The third column shows '17 minutes ago'. The fourth column shows 'Updated 14 minutes ago'. A red box highlights the link 'hiring7343c' in the first column.

Item	Description
1	Click for more details of the instantiated process

Process Instances

Jobs

Tasks

hiring 7343c

Details

- Name: hiring
- State: Completed
- Id: 7343c8e4-2d76-476d-b858-189cfefcc711
- Endpoint: <http://localhost/dev-deployment-xutrg3g182>
- Start: 20 minutes ago
- Last Updated: 17 minutes ago
- End: 17 minutes ago

Variables

```
{
  "skills": "Java",
  "candidate": "Raul",
  "experience": 2,
  "category": "Software Engineer",
  "salary": 30000,
  "bonus": 150
}
```

Timeline

- Start 20 minutes ago
- New Hiring 20 minutes ago
- Create Offer 20 minutes ago
- Split 20 minutes ago
- HR Interview** 1 Active
- Join 17 minutes ago
- Send notification HR Interview avoided 17 minutes ago
- Join 17 minutes ago
- Application denied 17 minutes ago
- End 17 minutes ago
- BoundaryEvent 17 minutes ago

Item	Description
1	Note that this instance was not attended to by the human in time, in the " HR Interview " task.

Now that we have the BAMOE Management Console configured, let's return to the Swagger UI to make another new POST call, then return to the Console to perform the user action.

POST /dev-deployment-xutrg3g182/hiring hiring

Parameters

Name	Description
businessKey	businessKey

Request body

```
{
  "skills": "Java",
  "candidate": "Peter",
  "experience": 3
}
```

Execute

Item	Description
Request body	<pre>{ "skills": "Java", "candidate": "Peter", "experience": 3 }</pre>
1 and 2	Enter the new Json data, and click " Execute "

Returning to the BAMOE Management Console, we will see the new instance with the status "**Active**"

Id	Status	Created	Last update
hiring 2ae4c Endpoint	Active	a few seconds ago	Updated a few seconds ago
hiring eb0f8 Endpoint	Completed	13 minutes ago	Updated 10 minutes ago

Now we will assume the role of "Jdoe", an actor configured in the human activities of the Workflow, to respond to your tasks.

Name	Process	Priority	Status	Started	Last update
HR Interview 4fd13	hiring	N/A	Reserved	a minute ago	a minute ago

Item	Description
1	From the Hamburger Menu, go to the " Tasks " screen
2	Click on the " Impersonate "

Home > Canvas-SampleWorkflow (Unknown user @ http://localhost/dev-deployment-xutrg3gl82) > Tasks

Tasks

Impersonate

User: **1 jdoe**

Groups: None (currently empty)

2 Apply Reset

Status	Filter by Task name	Apply Filter	More
Status	Ready	Reserved	Completed
Name	Process	Priority	Status
Started			Last update

3 HR Interview 2468a

Item	Description
1	Enter the user " jdoe "
2	Click " Apply "
3	Click on the " HR Interview " task

Home > Canvas-SampleWorkflow (Unknown user @ http://localhost/dev-deployment-xutrg3gl82) > Tasks > 4fd139e2-f393-4aa3-ba7e-fd2fc7bf47ef

Impersonating 'jdoe'

Viewing and completing Tasks as 'jdoe'

HR Interview (Reserved)

1 Approve

Base salary
30000

Bonus
150

Candidate
Peter

Category
Software Engineer

2 Complete Release Skip

Item	Description
1	Now assuming the role of the HR user, click on " Approve "
2	According to the rule registered in the Workflow, the values and position were suggested according to the input data. However, at this stage, HR can change them before sending them to the IT department.
3	Click " Complete " to finish analyzing this task.

Since the same user "**jdoe**" was assigned to both human activities in the workflow, then we will repeat the steps for the IT department's action.

The screenshot shows the IBM Process Automation interface. The left sidebar has 'Process Instances', 'Jobs', and 'Tasks'. The 'Tasks' item is highlighted with a red box and labeled '1'. The top right shows 'Unknown user @ Canvas-SampleWorkflow'. Below it, the title 'Tasks' is followed by a red box labeled '2' containing 'Impersonating jdoe' and 'Viewing and completing Tasks as 'jdoe''. The main area shows a table of tasks with columns: Name, Process, Priority, Status, Started, and Last update. A red box labeled '3' highlights the first task, 'IT Interview 8f750', which is 'hiring', 'N/A', 'Reserved', 'a few seconds ago', and 'a few seconds ago' respectively.

Item	Description
1	Return to the " Tasks " screen
2	Check if the user " jdoe " was selected
3	Click on the " IT Interview " task

The screenshot shows the 'IT Interview' task details. The top right shows 'Unknown user @ Canvas-SampleWorkflow'. The task title is 'IT Interview' with status 'Reserved'. A red box labeled '1' highlights the 'Approve' checkbox under 'Base salary' (value: 30000). A red box labeled '2' highlights the 'Complete' button at the bottom of the form.

Item	Description
1	Let's approve this step as well so that we can have a happy path in this process.
2	Click " Complete "

Now that all the human activities of the process have been answered, let's return to "Process Instances" to analyze the results.

The screenshot shows the 'Process Instances' screen of the IBM BAMOE Management Console. The navigation bar at the top has tabs for 'Process Instances' (highlighted with a red box and labeled '1'), 'Jobs', and 'Tasks'. The main area is titled 'Process Instances' and shows a list of instances. One instance, 'hiring eb0f8' (highlighted with a red box and labeled '2'), is selected and shown in more detail below the list. The list includes columns for 'Id', 'Status', 'Created', and 'Last update'. The status for 'hiring eb0f8' is 'Completed'.

Item	Description
1	Return to the " Process Instances " screen
2	Click on the instance

The screenshot shows the 'Process Instance' details screen for the instance 'hiring 43651'. The left sidebar has tabs for 'Process Instances', 'Jobs', and 'Tasks'. The main area is titled 'Process Instance' and shows details for the instance 'hiring'. The 'Variables' section (highlighted with a red box) contains the following JSON object:

```

{
  "skills": "Java",
  "candidate": "Peter",
  "experience": 3,
  "category": "Software Engineer",
  "salary": 30000,
  "bonus": 150
}

```

Two red arrows point from the 'Variables' section to the 'Timeline' section, which lists the following events:

- Start 4 minutes ago
- New Hiring 4 minutes ago
- Split 4 minutes ago
- Create Offer 4 minutes ago
- HR Interview 2 minutes ago
- IT Interview 2 minutes ago
- Split 2 minutes ago
- Send Offer to Candidate 2 minutes ago
- End 2 minutes ago

Now all the steps of the "happy path" have been executed, observe the result in the central "Variables" frame and the Timeline that this instance traveled.

Congratulations! You have completed this Lab, where we explored the practical features and functionality of BAMOE Canvas, Management Console, and Dev Deployment in Minikube.

I hope you had a good learning experience. Thank you for participating!

Find more information about the BAMOE Management Console in the official [IBM documentation](#).

7 Consult Documentation and Communities

- [IBM BAMOE Official Documentation 9.2.x](#)
- [IBM Business Automation Community: Open Editions](#)
- [BAMOE University](#)