

Parallel Paths in a Flow

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1 Objective

Up to this point all the paths in your flows have gone down a defined straight path and stopped, either with an error or final message to the user. In designing an experience you may want to or need to effectively have two paths that execute in parallel and each come to its own conclusion.

An example of where parallel processing could be used is to send a message acknowledgement to the user via email or SMS at registration. You could also send notification to other users or systems, for example a Slack channel. The primary ingredient needed is either a connector that supports that integration or an API that can be used for the integration.

Tip

All the number instruction steps in each section must be followed to successfully complete this exercise. Any bullet points or images are for example only unless called out in a numbered step.

Tip

You will be using Glitch for editing the code and testing with the your flow changes. Before you start a lab or need to access Glitch, ensure that you are logged into your Glitch account and accessing the current project.

2 Do the following task items

In this exercise to demonstrate setting up parallel paths you will leverage the PingOne Notification service that is part of PingOne platform to send an email message to **you** when a user registers an account.

The main objective is to setup an example flow that has a parallel path. In a later exercise you will use this to send a notification email to the user at account creation.

2.1 Setup email notification for registration flow

This change will be made to your first registration flow, the name first flow. You will add a path at the end to send a message to your email when the user completes the process to create an account.

In an actual implementation this could be used to send to a marketing department to notify of new user registrations for later followup.

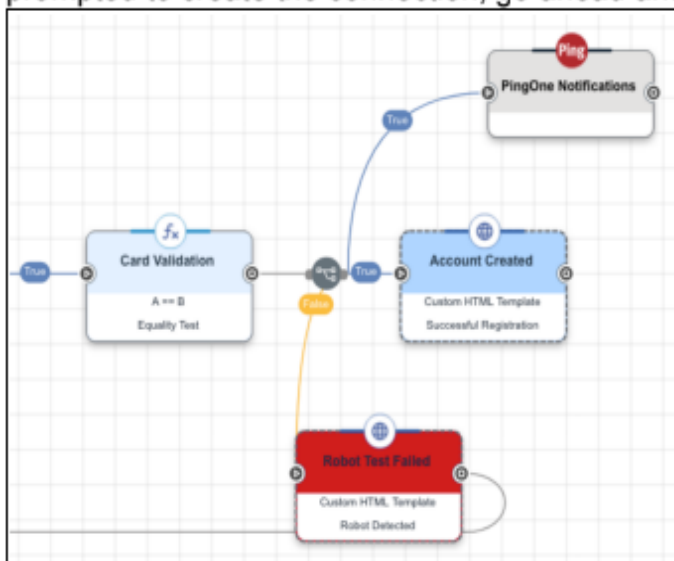
In this flow you are going to leverage the PingOne notification service to send the email.

- 1 In **DaVinci** open the **Progressive Registration** flow.
- 2 **Scroll** to the right of the canvas until you get to the last node **Account Created**.
- 3 From the **Action Decision** node to the left of **Account Created** node draw a new path line, draw it towards the top.
- 4 Search for **noti** to find the **PingOne Notifications** connector.



- You will be doing more with notifications in PingOne in later exercises in this training.

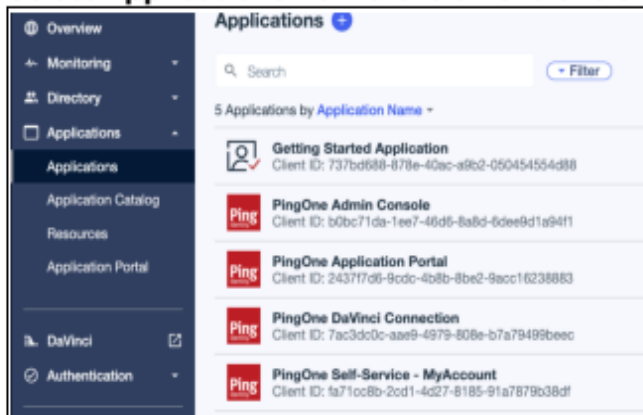
- 5 Select the **PingOne Notifications** and the path must be **All Triggers True**, you will probably be prompted to create the connection, go ahead and do so.



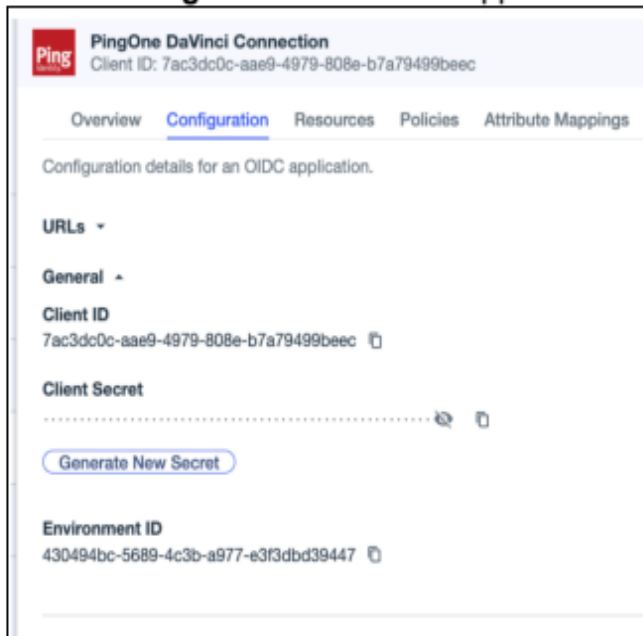
- Basically a parallel path is created by defining two or more paths out of a decision that have the same triggered condition.
- In this case the two paths are for your new node and the existing Account Created node

and these will be executed in parallel.

- 6 Click the **PingOne Notifications** node you just created to configure it.
 - This node will require some configuration of the connector leveraging a PingOne application and the notification service.
 - Therefore you will be going back and forth between PingOne in one browser tab and DaVinci in another one.
 - 7 Click the **gear** icon to configure the connector.
 - As the product evolves the integration between PingOne and DaVinci is being enhanced.
 - Therefore you may notice that some of the following information is already filled in for you, in that case just verify that it is correct.
- 7.1 In another browser tab with PingOne administrator console open the **Intro DaVinci Training environment**.
- 7.2 Select **Applications** from the left menu and then **Applications**



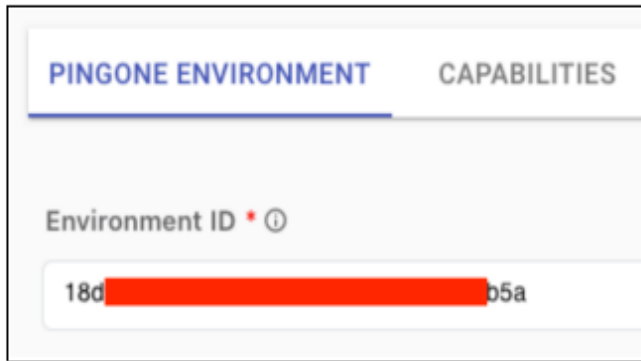
- 7.3 Click the **PingOne DaVinci Connection** application.
- 7.4 Select **Configuration** tab for the application and open the **General** section in dialog.



- You will need a few pieces of information from this section to configure the connector in DaVinci.

- 7.5 Click the  icon next to the **Environment ID** to add it to the copy buffer.

7.6 Paste this into the **Environnement ID** field in DaVinci



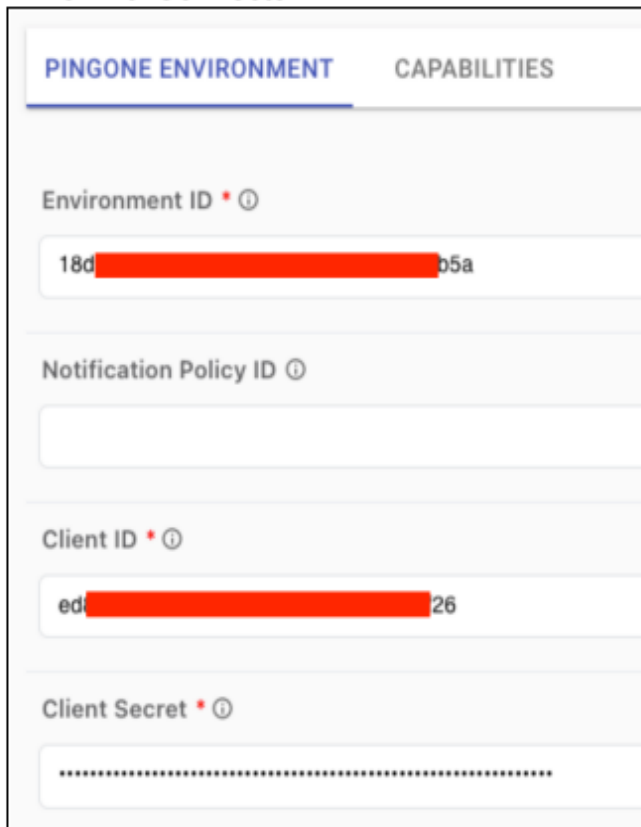
PINGONE ENVIRONMENT CAPABILITIES

Environment ID * ⓘ

18d[redacted]b5a

7.7 Copy the **Client ID** from the PingOne application and **Paste** into the **Client ID** field in DaVinci Connector.

7.8 Copy the **Client Secret** from the PingOne application and **Paste** into the **Client Secret** field in DaVinci Connector.



PINGONE ENVIRONMENT CAPABILITIES

Environment ID * ⓘ

18d[redacted]b5a

Notification Policy ID ⓘ

Client ID * ⓘ

ed[redacted]26

Client Secret * ⓘ

.....

7.9 Make sure your **Region** is correct for your PingOne tenant.

7.10 In PingOne select **User Experiences** from the left menu and then select **Notification Policies**



Overview

Monitoring

Directory

Applications

DaVinci

Authentication

Integrations

User Experience

Notification Templates

Notification Policies

Branding & Themes

Notification Policies ⓘ

Notification policies define the methods used to inform users when ever

Search for Policy

Default Notification Policy

Policy ID: eb559fbc-9039-4865-b3d3-54ea1f5f444e

Default

- 7.11 **Copy** the **Policy ID** from the PingOne notification policy and **Paste** into the **Notification Policy ID** field in DaVinci Connector.

The screenshot shows a configuration window for a PingOne environment. The 'PINGONE ENVIRONMENT' tab is active. The fields are as follows:

- Environment ID**: 18d...b5a
- Notification Policy ID**: bd5...48
- Client ID**: ed8...26
- Client Secret**: [Redacted]
- Region**: North America - US

- 7.12 Click **Apply** button and then **Close** button to complete the configuration of the connector.
- 8 Select **Send Email** capability.
 - 9 Apply and close the dialog for the node.
 - You will need to do some additional setup in PingOne for the next step, this will be covered in the next section.
 - 10 Continue with the next section.

2.1.1 Create an admin account in PingOne

In order to send a message via the notification service in PingOne you need to have a User ID in the environment. Typically this service is to send a message to the current user and the expectation is that the information needed is part of the user account. For this exercise you are going to create an "admin" account that will be sent the message rather than the user creating the account. What is needed is the user ID, the email address will be hard coded in the DaVinci configuration.

You will create this user in this section of the exercise to get the user ID you need for the DaVinci configuration.

- 1 In **PingOne** administrator console select **Directory** then select **Users** to create a user.
- 2 Click **+** next to **Users** to add a new user.
- 3 Type **AdminTest** as the **Username** field and same for **givenName**.
- 4 Click **Save** button to create the user.
- 5 Click on the **Admin Test** user to open it.

6 In the user dialog to the right select **API** tab.

Admin Test
AdminTest

Profile Groups Roles Services **API**

ID
61c0...a6feb

7 **Copy** the ID value from the user.

8 Back in **DaVinci** console select the **PingOne Notifications** node.

8.1 In the **User ID** field **paste** the ID from the earlier step.

8.2 In the **Email** field enter your email address, you will verify in your inbox that the email was sent.

Send Email

GENERAL SETTINGS

User ID *

75...
...

Email *

...

Notification Name

Default

9 Select **Settings** tab.

9.1 In the **Node Title** enter

▪ **Notify Admin**

Send Email

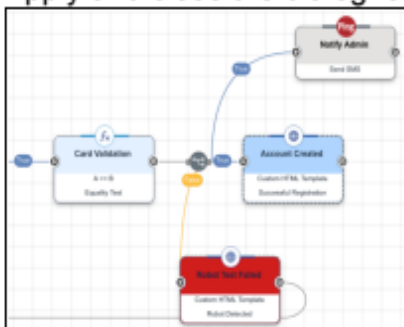
GENERAL **SETTINGS**

Node Title

Notify Admin

Node Description

10 Apply and close the dialog for the node.



11 **Deploy** your flow.

12 Continue with the next section.

2.2 Test changes with web application

Now it is time to test your changes to the registration flow. You are going to change the application to use the original flow policy that invokes the original flow that you just changed.

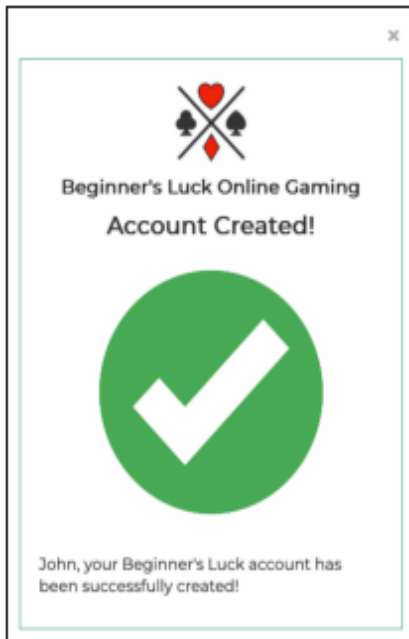
- 1 In a browser tab open your **Glitch** application.
- 2 In the **index.html** file you are going to change the `loadRegistrationFlow` function.
- 3 Comment out the second policy line and uncomment the first policy line.

```

17 // Load DaVinci Registration Flow
18 ~
19 function loadRegistrationFlow() {
20   const policyId = "28[REDACTED]33"
21   // const policyId = "d[REDACTED]09"
22   const divComponent = "flow-widget"
23   let flowInputData = {"countryCode": COUNTRY_CODE}
24
25   loadwidget(policyId, divComponent, flowInputData)
26 }

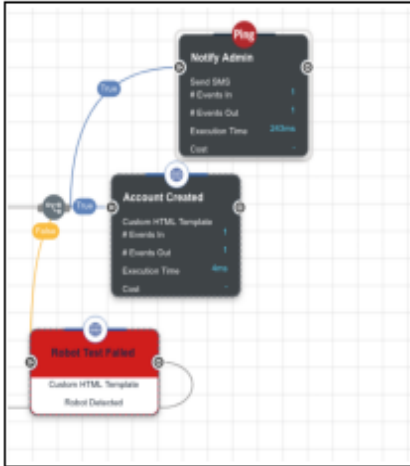
```

- 4 Click **Preview** button and then select **Preview in a new window** to test the application.
- 5 Click **Register** button.
 - You will be prompted to enter first and last name.
- 6 Enter all the information in the application until you get to the account created page:



- 7 You should receive an email message in your inbox with a default message of *Enter your custom message here*
 - You did not configure the policy in PingOne, just took the default setup.

- 8 Back in DaVinci if you select **Analytics** and look at the most recent event. You should see that the two nodes were both fired.



- 9 You have completed this exercise.