# How to: Integrate a B2C policy with Azure Application Insights

This article describes how to integrate a B2C policy with Azure Application Insights in order to log the user journey events that occur during execution of this policy and view these events in either the Azure Portal or the User Journey Player application.

## Create an Azure Application Insights resource

1. Go to [portal.azure.com](https://portal.azure.com/) and then create an Application Insights resource. Select **General** for the **Application Type** for the Application Insights resource.
2. Open the **Properties** blade for the Application Insights resource and copy the **Instrumentation Key** value. This value is required for the relying party policy.
3. Open the **API Access** blade for the Application Insights resource and copy the **Application ID** value. Then select **Create API key**, enter an API key description, select the **Read telemetry** API key permission, and then select **Generate key**. Copy the **API Key** value. Both the Application ID and API Key values are required for [the user journey player application](https://wingtipb2cplayer.azurewebsites.net/).

## Configure a relying party policy for integration with Azure Application Insights

1. Open the relying party policy file.
2. Add the **DeploymentMode** and **UserJourneyRecorderEndpoint** attributes to the **TrustFrameworkPolicy** element as follows:

<TrustFrameworkPolicy  
 PolicySchemaVersion="0.3.0.0"  
 TenantId="b2ctechready.onmicrosoft.com"  
 PolicyId="B2C\_1A\_sign\_up\_sign\_in\_games"  
 PublicPolicyUri="http://b2ctechready.onmicrosoft.com"  
 **DeploymentMode="Development"  
 UserJourneyRecorderEndpoint="urn:journeyrecorder:applicationinsights"** xmlns="http://schemas.microsoft.com/online/cpim/schemas/2013/06"  
 xmlns:xsd="http://www.w3.org/2001/XMLSchema"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">  
 …  
</TrustFrameworkPolicy>

1. Add the **JourneyInsights** element to the **UserJourneyBehaviors** element as follows:

<UserJourneyBehaviors>  
 <SingleSignOn Scope="Tenant" />  
 <SessionExpiryType>Rolling</SessionExpiryType>  
 <SessionExpiryInSeconds>86400</SessionExpiryInSeconds>  
 **<JourneyInsights InstrumentationKey="*<instrumentation-key>*" DeveloperMode="true" ClientEnabled="false" ServerEnabled="true" TelemetryEngine="ApplicationInsights" TelemetryVersion="1.0.0" />** </UserJourneyBehaviors>

*<instrumentation-key>* must be set to the **Instrumentation Key** value that was copied from the **Properties** blade for the Application Insights resource.

1. Upload the relying party policy file to the B2C tenant.
2. Execute the relying party policy. The user journey events are logged to the Application Insights resource.

## View the user journey events using the Azure Portal

1. Go to [portal.azure.com](https://portal.azure.com/) and then open the Application Insights resource.
2. Open the **Properties** blade for the Application Insights resource and select **Search**. The user journey events (by default for the last 24 hours) are listed in the **Search** blade for the Application Insights resource.
3. Select a user journey event to display the trace properties, the custom data (such as the policy name), and any related items for this user journey event.

## View the user journey events using the User Journey Player Application

1. Clone the **AzureB2CSamples** repository from <https://github.com/chrispadgettlivecom/AzureADB2CSamples>.

**Note:** This is the private repository that was used to create the original samples.

1. Open Visual Studio 2017 and open the **AzureADB2CSamples** solution.
2. Open the **appsettings.json** file in the **WingTipUserJourneyPlayerWebApplication** project and edit the **AzureApplicationInsightsAuthentication** settings as follows:

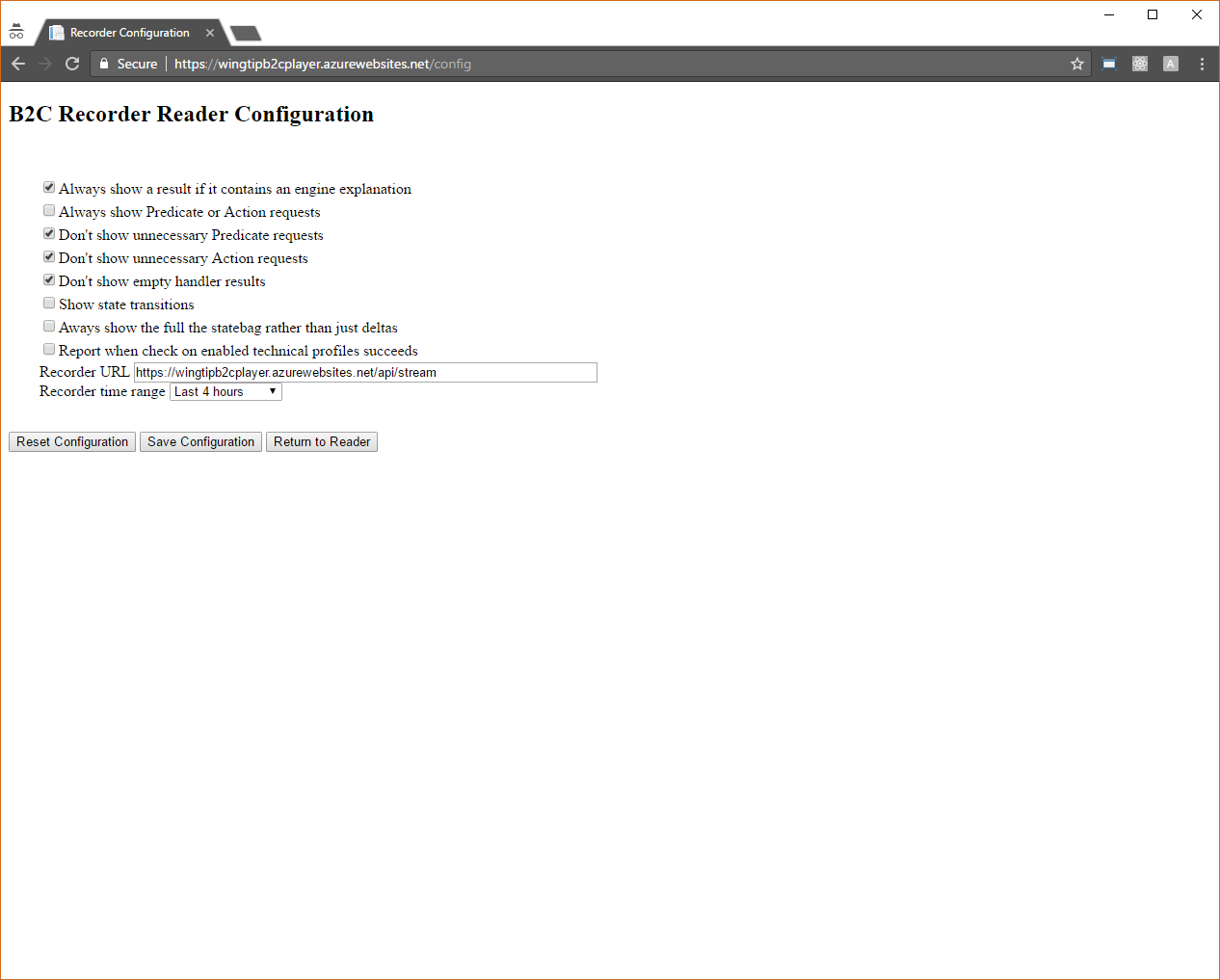
{  
 "AzureApplicationInsightsAuthentication": {  
 **"ApplicationId": "*<application-id>*",  
 "ApiKey": "*<api-key>*"** },  
 ...  
}

*<application-id>* and *<api-key>* must be set to the **Application ID** and **API Key** values that were copied from the **API Access** blade for the Application Insights resource.

1. Debug or deploy the **WingTipUserJourneyPlayerWebApplication** application.

**Note:** You must log in to this application using a **b2ctechready.onmicrosoft.com** user.

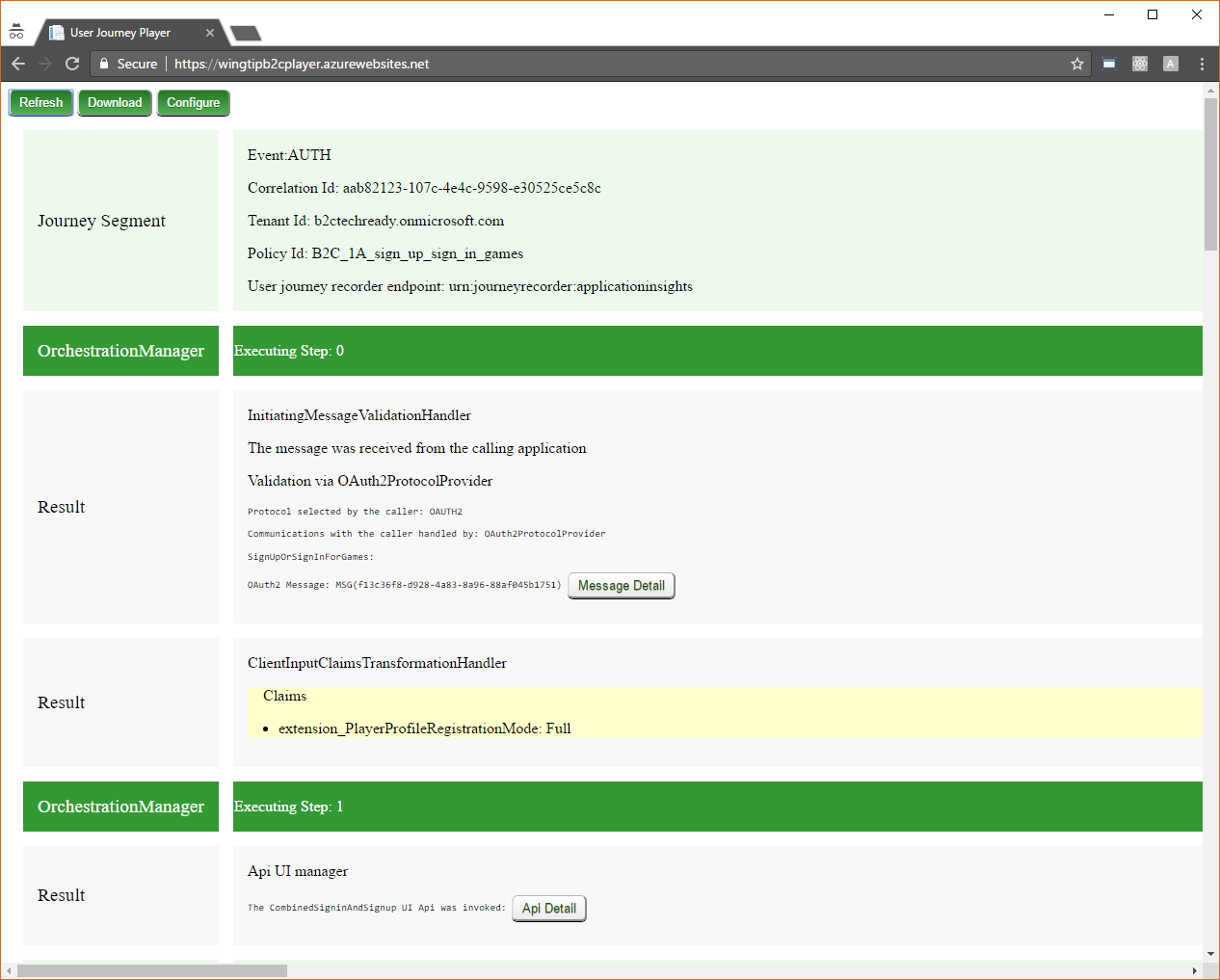
1. Select **Configure**, ensure the **Recorder URL** and **Recorder time range** settings are valid, select **Save Configuration**, and then select **Return to Reader**.



1. Select **Refresh**. The client-side code sends an AJAX request to the server-side code to retrieve the user journey events using [the Get Events operation](https://dev.applicationinsights.io/reference/get-events) of [the Azure Application Insights REST API](https://dev.applicationinsights.io/documentation/Overview). These user journey events are (a) filtered on those that were logged in the time range as specified by the **Recorder time range** setting and (b) sorted on the event time.

GET /beta/apps/*<application-id>*/events/traces?$filter=timestamp%20gt%20now()%20sub%20duration'*<time-range>*'%20and%20customDimensions%2FEventName%20eq%20'Journey%20Recorder%20Event%20v1.0.0'&$orderby=timestamp HTTP/1.1  
Host: api.applicationinsights.io  
x-api-key: *<api-key>*

The user journey events are then shown as follows:



**Note:** A user journey event represents a user journey segment. For a complex user journey, the trace data for a user journey segment can exceed the maximum size (32 KB) that is supported by Application Insights. If this is exceeded, then the user journey segment is shown as follows:

