# Power Virtual Agent

## Add your Question Answering project to Power Virtual Agents

### Steps

1. Create and publish a Question Answering project
2. Create the system fallback topic
3. Use the authoring canvas to add an action
4. Create a solution and add the flow
5. Add your solution's flow to Power Virtual Agents
6. Test the bot
7. Publish your bot

### Prerequisites

If you don't have an Azure subscription, create a free account (https://azure.microsoft.com/free/cognitive-services/) before you begin.

A language resource (https://aka.ms/create-language-resource) with the custom question answering feature enabled. Remember your Azure Active Directory ID, Subscription, language resource name you selected when you created the resource.

### Create and publish a Question Answering project

Create your first question answering project

Test your project

Deploy your project

Clean up resources

Explore the REST API

## Configure user authentication in Power Virtual Agents using Azure Active Directory

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[Configure user authentication - Power Virtual Agents | Microsoft Learn](https://learn.microsoft.com/en-gb/power-virtual-agents/configuration-end-user-authentication)

Adding authentication allows users to sign in, giving your bot access to a restricted resource or information.

This article covers how to configure Azure Active Directory (Azure AD) as your service provider.

### Steps

1. Create an app registration
2. Add the redirect URL
3. Generate a client secret
4. Configure manual authentication

### Prerequisites

* Learn more about what you can do with Power Virtual Agents.
* Learn how to use user authentication in a topic.

### Create an app registration

1. Sign in to the Azure portal, using an admin account on the same tenant as your bot.
2. Go to App registrations, either by selecting the icon or searching in the top search bar.
3. Select New registration and enter a name for the registration.
4. Select Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox).
5. Leave the Redirect URI section blank for now. You'll enter that information in the next steps.

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1. Select Register.
2. Once the registration is complete, go to Overview.
3. Copy the Application (client) ID and store it in a temporary place. You'll need this in later steps.

Graphical user interface, text, application, email

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### Add the redirect URL

1. In the Azure portal, go to Authentication and then select Add a platform.  
   Graphical user interface, text, application

   Description automatically generated
2. Under Platform configurations select Add a platform, then select Web.  
   Graphical user interface, text, application, email

   Description automatically generated
3. Under Redirect URIs, enter https://token.botframework.com/.auth/web/redirect and https://europe.token.botframework.com/.auth/web/redirect.
4. Under the Implicit grant and hybrid flows section, turn on both ID tokens (used for implicit and hybrid flows) and Access tokens (used for implicit flows).
5. Select Configure to confirm your changes.

### Generate a client secret

1. In the Azure portal, go to Certificates & Secrets.  
   Graphical user interface, text, application, email

   Description automatically generated
2. Under the Client secrets section, select New client secret.
3. (Optional) Enter a description. One will be provided if you leave it blank.
4. Select the expiry period. Select the shortest period that's relevant for the life of your bot.
5. Select Add to create the secret.
6. Store the secret's Value in a temporary place. You'll need it when you configure your bot's authentication.

Description ursrueggchatbot

Value g-x8Q~ydaMIiu85T0XPwUmYMVp5OmceQyhDWwcZS

Secret ID b2a5a194-c4ea-4ce3-a729-0fd82b5ff51a

### Configure manual authentication

1. In Power Virtual Agents, in the navigation menu under Settings, select Security. Then select the Authentication card.

Graphical user interface, application, website

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Screenshot of selecting the Authentication card.

1. Select Manual (for any channel including Teams) then turn on Require users to sign in.  
   Graphical user interface, application

   Description automatically generated

Screenshot of selecting the manual authentication option.

1. Enter the values for the following properties:
   * Service provider: Select Azure Active Directory V2.
   * Client ID: Enter the application (client) ID that you copied earlier from the Azure portal.
   * Client secret: Enter the client secret you generated earlier from the Azure portal.
   * Scopes: Enter profile openid.
2. Select Save to finish the configuration.