

## Configuring XPression Maps to Use Azure Maps Services




XPression Maps can be configured to use **Microsoft Azure Maps** as its external map service provider. Once connected to a valid Azure Maps account, XPression Maps integrates with Azure Maps services to perform various tasks such as geolocation searches and retrieving map imagery tiles of various styles, including satellite views.

- ★ XPression Maps supports integration with several third-party map service providers, which require customer-managed, pay-as-you-go subscription accounts. Ross Video does not offer billing integration with these vendors; all transactions are handled via the API Key provided by the customer.

Customers are fully responsible for setting up and managing subscriptions, payments, and account details directly with each third-party provider. Ross Video does not participate in any billing or commercial arrangements with these services.

### Overview of the Configuration Process

#### To configure XPression Maps to use Microsoft Azure Maps services:

1. Open and sign in to the [Microsoft Azure Portal](#) using your **Microsoft account** credentials.
2. Select your **Azure Maps** account.  
If you don't already have one, create an **Azure Maps** account.  
See [Creating an Azure Maps Account](#) .
3. Acquire a copy of the primary authentication key for the Azure Maps account.  
See [Acquiring the Primary Authentication Key](#) .
4. Launch the **XPression Maps** application.
5. In the **Preferences > Connections** window, enter and validate the primary authentication key, then set both the **Search** and **Base Maps** fields to **Azure Maps**.  
See [Configuring the External Provider Settings in XPression Maps](#) .
6. Save the changes and close the **Preferences** window.
7. Restart **XPression Maps**.  
Azure Maps is now the assigned external mapping service provider.

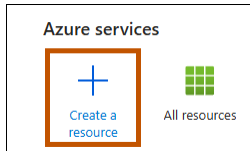
## Creating an Azure Maps Account

Azure Maps is a suite of cloud-based map and location services provided by Microsoft as part of the Azure platform. If you don't already have an **Azure Maps account**, perform the following procedure to create a new account.

- ★ A valid **Microsoft Azure account** is required to create a new Azure Maps account. If you don't already have an **Azure account**, [sign up](#) for an account and subscription before you continue.

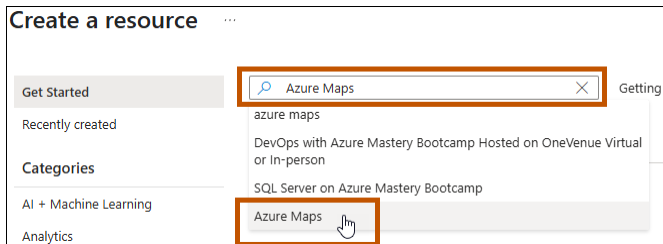
**To create a new Azure Maps account:**

1. Open and sign in to the [Azure Portal](#).
2. From the **Azure services** section, select **Create a resource**.



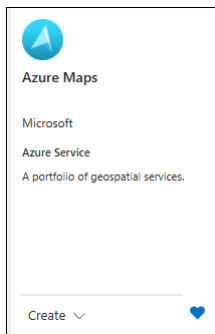
*Azure Portal - Create a resource*

3. In the search bar, type **Azure Maps**, then select **Azure Maps** from the results.



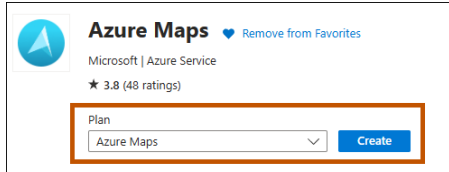
*Create a resource - Search for Azure Maps*

4. In the **Marketplace**, select the **Azure Maps** tile.



*Marketplace - Azure Maps Tile*

- In the **Plan** drop-down, ensure that **Azure Maps** is displayed, then select **Create**.



*Azure Maps - Create*

- On the **Create Azure Maps Account** page, select the **Basics** tab and enter the information for your new account.
  - In the **Project Details** section, select your Azure **Subscription** and **Resource** group.
  - In the **Instance details** section, enter a **Name** and **Region** for the account and set the **Pricing tier**.
  - In the **Terms** section, select the checkbox to confirm and agree with the license and privacy statement.
  - Select **Review + create**.

*Create an Azure Maps Account Resource*

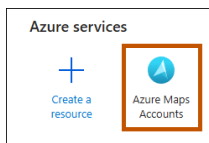
- Verify all account details and select **Create**.
- Once complete, select **Go to Resource** under **Next steps** to go to your Azure Maps account dashboard.

## Acquiring the Primary Authentication Key

When you create an Azure Maps account, a set of shared authentication keys is automatically generated. These keys enable Azure Maps to verify and authorize requests from external applications, like XPression Maps.

**To acquire a copy of the primary authentication key from your Azure Maps account:**

1. Open and sign in to the [Azure Portal](#).
2. In the **Azure services** section, select **Azure Maps Accounts**.



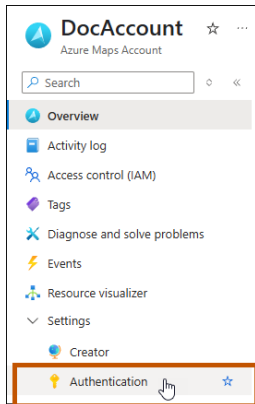
*Azure Services - Azure Maps Accounts*

3. In the **Resources** section, select your **Azure Maps** resource.



*Resources - Azure Maps Resource*

4. In the left-hand navigation pane, in the **Settings** section, select **Authentication**.



*Settings - Authentication*

5. In the **Shared Key Authentication** section, select the **Copy to clipboard** icon in the **Primary Key** field.



*Authentication - Shared Key Authentication - Primary Key*

6. Save the primary key in a text file. You'll need it to configure XPression Maps.

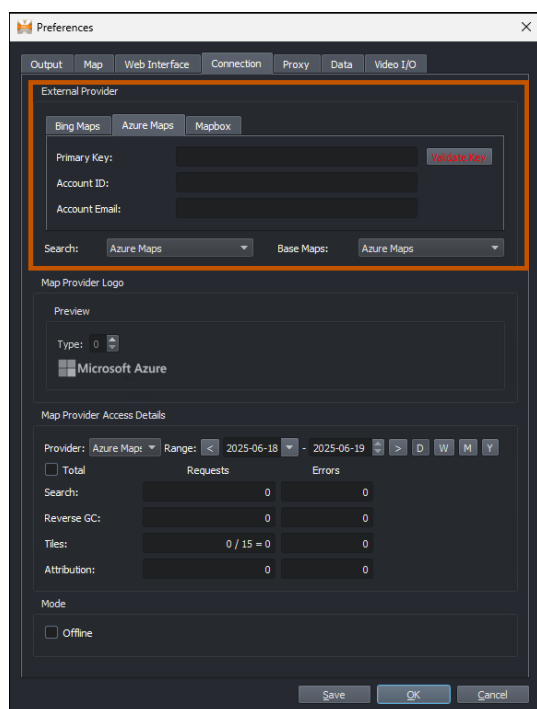
## Configuring the External Provider Settings in XPression Maps

To integrate XPression Maps with Azure Maps services, you need to connect it to your Azure Maps account and specify **Azure Maps** as the provider for location searches and base maps.

- ★ You must have the primary authentication key for your Azure Maps account. See [Acquiring the Primary Authentication Key for the Azure Maps Account](#) for instructions.

**To configure the XPression Maps External Provider settings:**

1. Open XPression Maps and select **File > Preferences**.
2. Select the **Connection** tab.
3. In the **External Provider** section, select the **Azure Maps** tab.



*Preferences - Connection - Azure Maps*

4. In the **Primary Key** field, paste the primary key you copied from your Azure Maps account.

The **Account ID** and **Account Email** fields are optional and are provided for the user to keep track of the account and email address under which the application key is running.

5. Then select **Validate Key** to check if the key is working.

If the key is valid, the button turns green and displays **Key is valid**.



6. In the **Search** field, select **Azure Maps** as the location service provider used by the **Search Editor** tool in XPression Maps.
7. In the **Base Maps** field, select **Azure Maps** as a maps tiles provider for certain map styles integrated in XPression Maps.
8. Select **Save**, then **OK**.
9. Restart XPression Maps to apply the changes.