

AI Visual Keywording with Microsoft Azure Computer Vision API

Introduction

Infradox has implemented an AI Visual Keywording interface in Infradox XS websites. This allows you to make use of 3rd party AI API's to generate keywords for your images.

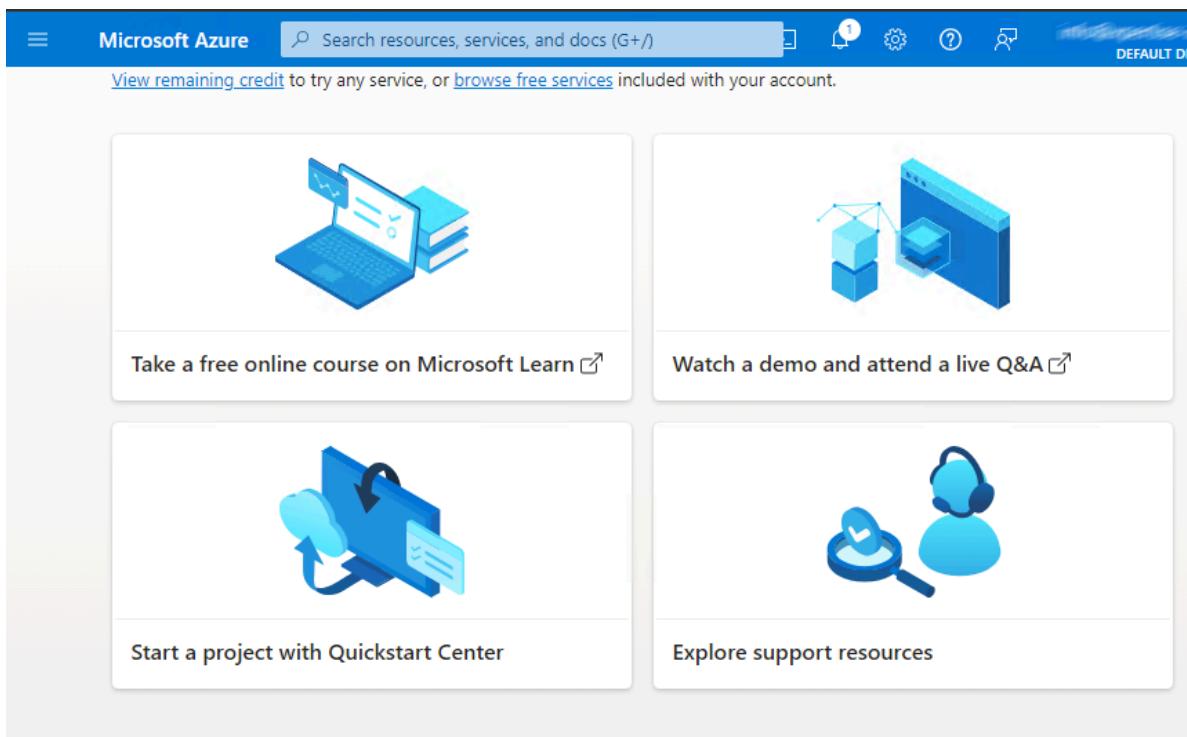
This document describes what you need to do to allow the use of the Microsoft Azure Computer Vision API in your Infradox website.

Prerequisites

First you need to set up a Microsoft Azure account if you don't already have that. Please visit <https://azure.microsoft.com> to create an account.

Enable Computer Vision

In MS Azure Portal home, click the *Create a resource* icon:



Enter "computer vision" in the filter box and click on the *Create* → *Computer Vision* link at the bottom of the Computer Vision tile:

The screenshot shows the Microsoft Azure Marketplace interface. At the top, there is a search bar with the text "Search resources, services, and docs (G+/)". Below the search bar, the breadcrumb "Home > Create a resource >" is visible. The main heading is "Marketplace". On the left side, there is a navigation menu with sections: "Get Started" (containing "Service Providers"), "Management" (containing "Private Marketplace" and "Private Offer Management"), "My Marketplace" (containing "Favorites", "My solutions", "Recently created", and "Private plans"), and "Categories" (containing "AI + Machine Learning (80)" and "Analytics (39)").

The main content area shows search results for "computer vision". There are filter buttons for "Pricing: All", "Publisher Type: All", and "Publisher name: All". A checkbox for "Azure services only" is present. Below the filters, it says "Showing 1 to 20 of 112 results for 'computer vision'. [Clear search](#)".

Two service tiles are visible:

- Computer Vision** (Microsoft): An AI service that analyzes content in images. It has a "Create" button and a heart icon.
- Product Recognition U: Computer Vision** (Verofax Limited): SaaS, Real-time marketing and operational insights by turning products interactive. It starts at €37,040.467/1 year and has a "Subscribe" button.

A tooltip for "Computer Vision" is visible over the "Create" button of the first tile.

Fill out the Create Computer Vision page that follows:

- Select your Azure subscription
- Select an existing resource, or create a new resource group
- Select *West Europe* as Region, as your web server is hosted there.
- Type a subdomain name that will be used as the starting bit of your endpoint URL. This must be a unique name that's not already in use by someone else. The best would be your naked domain name without the .com extension (e.g. xpertise-ict if your domain name is xpertise-ict.com)
- Choose the Free (F0) Pricing Tier

Create Computer Vision ...

[Basics](#) [Network](#) [Identity](#) [Tags](#) [Review + create](#)

Boost content discoverability, accelerate text extraction, and create products that more people can use by embedding vision capabilities in your apps. Use visual data processing to label content (from objects to concepts), extract printed and handwritten text, recognize familiar subjects like brands and landmarks, and moderate content. No machine learning expertise is required.

[Learn more](#)

Project Details

Subscription * ⓘ	<input type="text" value="Azure subscription 1"/>
Resource group * ⓘ	<input type="text" value="VisionAPI"/> Create new

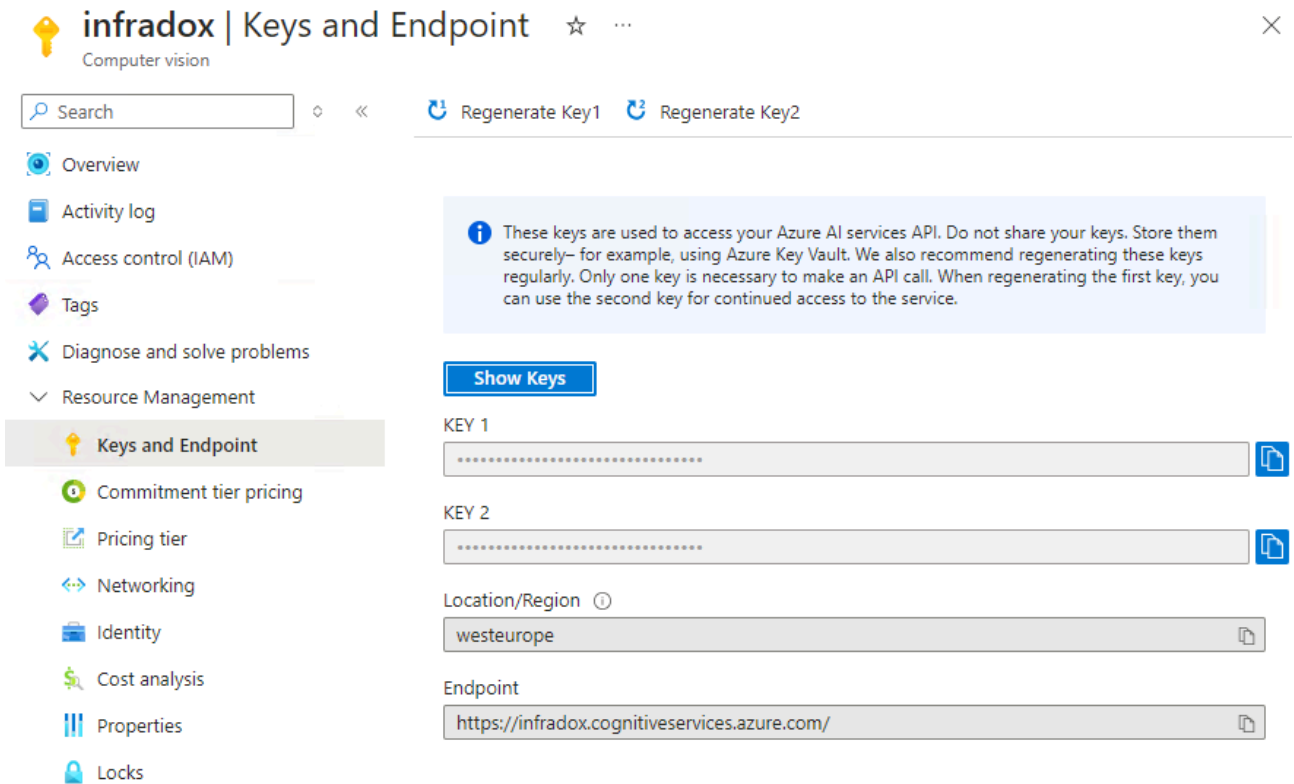
Instance Details

Region ⓘ	<input type="text" value="West Europe"/>
Name * ⓘ	<input type="text" value="infradox"/>
Pricing tier * ⓘ	<input type="text" value="Free (F0)"/>

After successful creation of the resource you'll see a page like this:

The screenshot shows the Azure portal interface for a deployment. At the top, the deployment name is "Microsoft.CognitiveServicesComputerVision-...". Below the name, there are navigation icons: Search, Delete, Cancel, Redeploy, Download, and Refresh. On the left, there is a sidebar with "Overview" selected, and other options like "Inputs", "Outputs", and "Template". The main content area displays a green checkmark and the message "Your deployment is complete". Below this, the deployment details are listed: "Deployment name : Microsoft.CognitiveServicesComputerVision-...", "Subscription : Azure subscription 1", "Resource group : VisionAPI", "Start time : 5/7/2024, 3:55:35 PM", and "Correlation ID : ...". At the bottom, there are expandable sections for "Deployment details" and "Next steps", and a blue button labeled "Go to resource".

Click the *Go to resource* button to access the API key:



The screenshot shows the Azure portal interface for the 'infradox | Computer vision' resource. The left-hand navigation pane is expanded to 'Keys and Endpoint'. The main content area features a 'Show Keys' button, a warning message, and several input fields. The warning message states: 'These keys are used to access your Azure AI services API. Do not share your keys. Store them securely— for example, using Azure Key Vault. We also recommend regenerating these keys regularly. Only one key is necessary to make an API call. When regenerating the first key, you can use the second key for continued access to the service.' Below this, there are two key fields labeled 'KEY 1' and 'KEY 2', both containing masked text and a copy icon. The 'Location/Region' field is set to 'westeurope' and also has a copy icon. The 'Endpoint' field is set to 'https://infradox.cognitiveservices.azure.com/' and has a copy icon. At the top of the main content area, there are two 'Regenerate Key' buttons.

You'll need to supply us with the following information in order to enable the use of this API in your Infradox website:

- KEY 1
- Location/Region
- Endpoint