

# Setting up a Microsoft Azure ICR Account

For use with Remark® Office OMR

Remark Office OMR includes an ICR feature that utilizes Microsoft's Computer Vision ICR engine. In order to use ICR in Remark, you will need a Microsoft Azure account. The following document outlines how to set up the Azure account as well as how to port the information to Remark Office OMR.

# Step 1: Create an Azure Account

Go to https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/.

Enter basic information to get started. You will also need a Microsoft account if you do not have one.

Hicrosoft Azure		
1.000	Your profile	^
1.000	Country/Region 🚯	
	United States	~
	Choose the location that matches your billing address. You cannot change this selection lat your country is not listed, the offer is not available in your region. Learn More	er. lf
	First name	-
	This field is required	
	Last name	
Statement of the local division of the local		
	This field is required	
	Email address 🚯	
	This field is required	
	Phone	
	Example: (425) 555-0100	
	By proceeding you acknowledge that if you use your organization's email, your organization r have rights to access and manage your data and account. <u>Learn more</u>	may
	Next	
	Identity verification by phone	~

# Step 2: Verification

Verify your identity with a text or phone call.

Your profile	$\sim$
Identity verification by phone	^
A text or phone call helps us make sure this is you.	
Country code	
United States (+1)	~
Phone number	
(555) 555-5555	
Text me Call me	
Verify code I did not receive a code	
Identity verification by card	$\sim$
Agreement	$\checkmark$

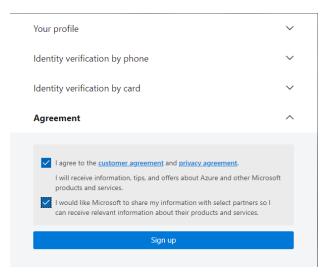
# **Step 3: Payment Information**

Enter credit card information (it's free to start and they will contact you after the trial to ensure you want to continue in a pay as you go fashion).

We'll make a temporar be charged unless you	y authorization on this card, but <u>y</u> <b>u upgrade</b> .	you woi
, ,		
We accept the following ca	ards:	
Cardholder Name	JCC VER	
Lardholder Name		
Card number		
Expires		
MM 🗸 🛛 YY 🗸		
CVV		
	What is a CVV?	
Address line 1		
Address line 2 (Optional)		
City		
State		
Select	$\sim$	
ZIP code		

#### **Step 4: Agreements**

Agree to the customer agreement and privacy agreement. You may optionally choose to share information with Microsoft. Your account is then created.



# Step 5: Establish Computer Vision

Once the account is set up, go to the Search bar and type Computer Vision. Select **Computer Vision** from the list.

o computer vision	×
Services	Marketplace See a
🚳 Cognitive Services	Computer Vision
🛞 Device Provisioning Services	Mint Vision Platform SaaS
Resources	🖄 Weface
No results were found.	🎒 Video De-Identifier by Whiteboard Coordinator
	Documentation See a
	Computer Vision documentation - Quickstarts, Tutorials
	What is Computer Vision? - Azure Cognitive Services
	What's new in Computer Vision? - Azure Cognitive Services
	Analyze videos in near real time - Computer Vision - Azure
	Resource Groups
	No results were found.

Searching all subscriptions. Change

# Step 6: Set up your Computer Vision

You can personalize the computer vision to your own liking. You will need to enter a **Resource Group Name**, your **Region** and a **Name**. The Name will become part of your end point URL (used in Remark), so it's best to keep it simple. Then choose your pricing tier. You will probably want to start with the free tier to see how it all works.

# Create Computer Vision

Basics Virtual network Tags Review + create

Boost content discoverability, accelerate text extraction, and create proucts 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

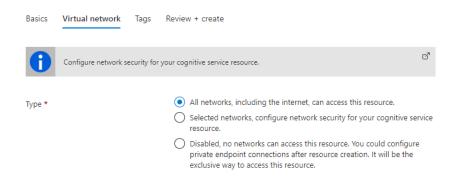
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * 🕡	Azure subscription 1	$\sim$
Resource group * (i)	(New) ICR	$\sim$
	Create new	
Instance details		
Region * 🕡	East US	$\sim$
-		
Name * 🛈	gravicicr	~
Pricing tier * 🛈	Free F0 (20 Calls per minute, 5K Calls per month)	$\sim$
View full pricing details		

Click the Next: Virtual Network button.

#### **Step 7: Virtual Network**

Choose the default to allow all networks, including the internet to access this resource.



Click the Next: Tags button.

### Step 8: Enter Tags (Optional)

If desired, enter tags to help you categorize resources. This is a personal preference and not required to use ICR with Remark Office OMR.

# Create Computer Vision

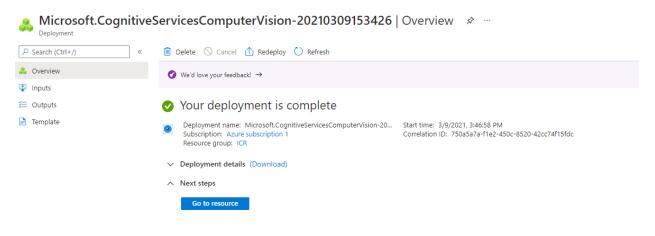
Basics	Virtual network	Tags	Review + create		
_			ou to categorize resourc groups. Learn more abo	es and view consolidated billing out tags	by applying the same
Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.					
Name 🛈	D		Value 🛈	Resource	

#### Click the Next: Review and Create button.

#### Step 9: Create the Computer Vision

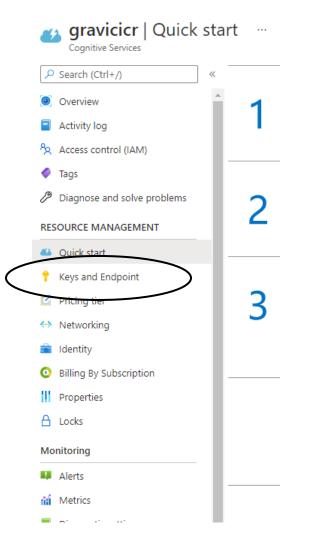
If everything looks good, click the **Create** button. Your deployment will take a minute or so to complete and then you will see the following confirmation:

Cognitive Services



# Step 10: Get the API Key and Endpoint

Look on the left side of the screen and click **Keys and Endpoint**.



# You should see a screen similar to the following:

🐉 Regenerate Key1 🕇	Regenerate Key2	
example, using Azur	to access your Cognitive Service API. Do not share your keys. Store them securely- for e Key Vault. We also recommend regenerating these keys regularly. Only one key is necessary When regenerating the first key, you can use the second key for continued access to the	
Show Keys		
KEY 1		
		Ð
KEY 2		
		Ð
Endpoint		
https://yoursite.cogr	nitiveservices.azure.com	
Location ()		
eastus	ι. Γ	2

# Step 11: Enter Information in Remark Office OMR

In the Remark Office OMR Data Center, click **Tools | Preferences | Cloud Add-ons**.

Application Preferences	
General	Cloud Based Text Recognition Providers
Folders	Remark Office OMR integrates directly with several cloud based engines to provide recognition of both typewritten (OCR) and handwritten (ICR) text. Note: ICR tends to be less accurate than OCR.
Display	Microsoft Cloud Vision (separate subscription required)
Email	Microsoft's Al based recognition has little to configure, but does well with both type written text and unconstrained handwriting like essays and short answers. It also performs reasonably well with constrained ICR regions.
Speech	Endpoint URL: https://gravicicr.cognitiveservices.azure.com/
Data	Subscription Key:
Updates	
Images	
Cloud Add-ons	
	☐ Sa <u>v</u> e a trace log
	Defaults QK Cancel Apply

Enter your **Endpoint URL** and **Subscription Key 1** from the screen above. (Note that you can either copy the key and paste it in Remark of click the Show Keys button and type it.)

# Click Apply and then OK.

You have enabled ICR within Remark Office OMR. You can now add ICR regions to your templates, as well as utilize Microsoft's Computer Vision OCR engine. Please see the Remark Office OMR User's Guide for detailed information about creating and using ICR regions.