Import data ···

Create and load a search index using data from an external data source. Azure Cognitive Search crawls the data structure you provide, extracts searchable content, optionally enriches it with cognitive skills, and loads it into an index. Learn more

Data Source	Azure Blob Storage
Data source name *	signs
Data to extract ⓘ	Content and metadata
Parsing mode	Default
Connection string *	DefaultEndpointsProtocol=https;AccountName= ... ✓ Choose an existing connection
	☐ Authenticate using managed identity ⓘ
Container name * ⓘ	signs
Blob folder ⓘ	your/folder/here
Description	(optional)

Next: Add cognitive skills (Optional)

Reference:

https://docs.microsoft.com/en-us/azure/search/search-create-service-portal https://docs.microsoft.com/en-us/azure/search/cognitive-search-quickstart-ocr

SIMULATION -

You need to create a Form Recognizer resource named fr12345678.

Use the Form Recognizer sample labeling tool at https://fott-2-1.azurewebsites.net/ to analyze the invoice located in the C:\Resources\Invoices folder.

Save the results as C:\Resources\Invoices\Results.json.

To complete this task, sign in to the Azure portal and open the Form Recognizer sample labeling tool.

Correct Answer: *See explanation below.*

Step 1: Sign in to the Azure Portal.

Step 2: Navigate to the Form Recognizer Sample Tool (at https://fott-2-1.azurewebsites.net)

Step 3: On the sample tool home page select Use prebuilt model to get data.
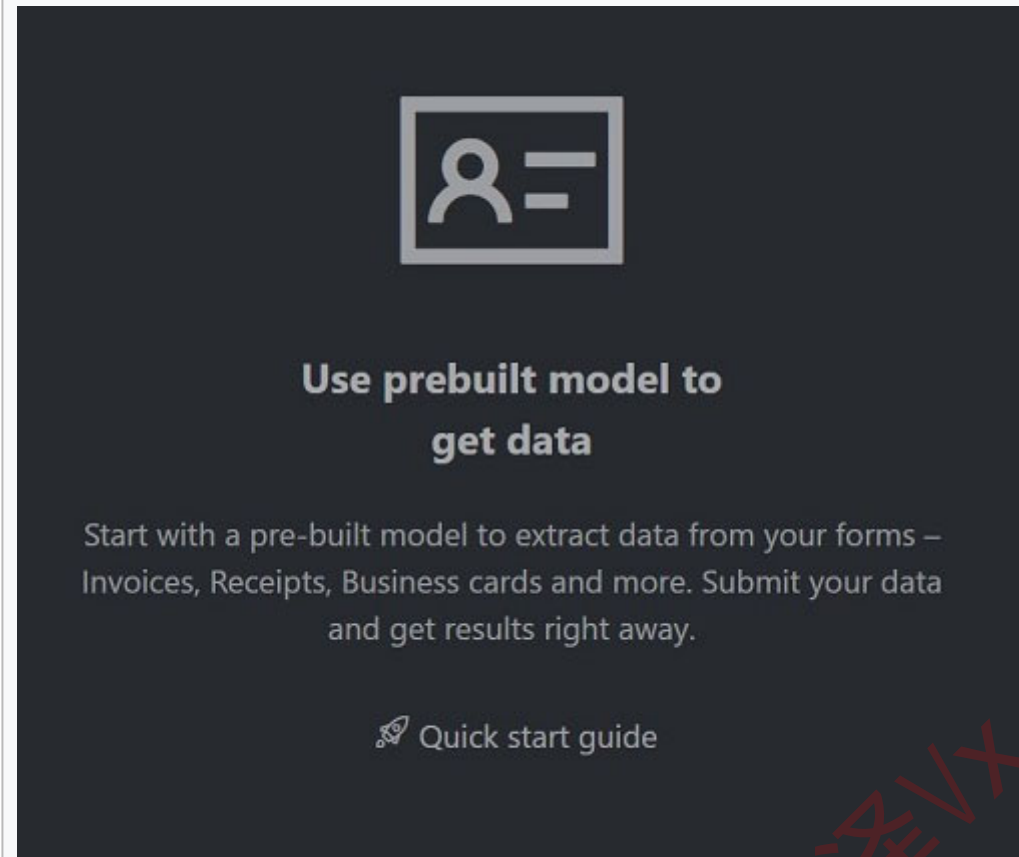
Step 4: Select the Form Type you would like to analyze from the dropdown window.

Step 5: In the Source: URL field, paste the selected URL and select the Fetch button.

Step 6: In the Choose file for analysis use the file in the C:\Resources\Invoices folder and select the Fetch button.
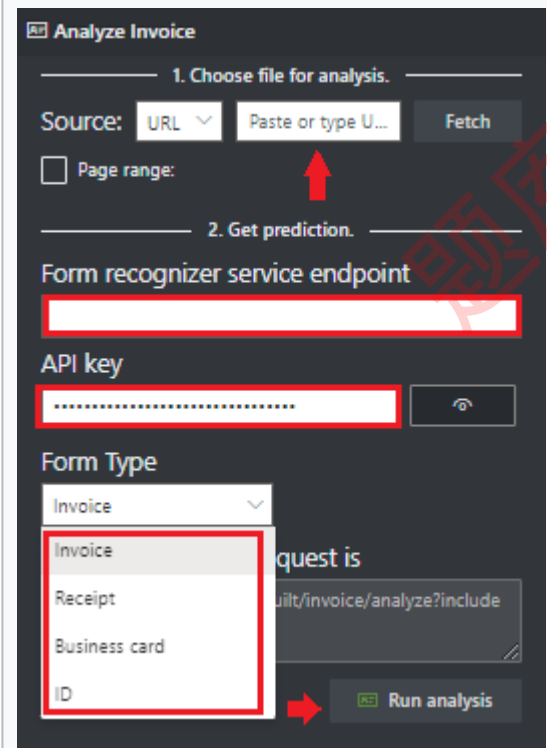
Step 7: Select Run analysis. The Form Recognizer Sample Labeling tool will call the Analyze Prebuilt API and analyze the document.

Step 8: View the results - see the key-value pairs extracted, line items, highlighted text extracted and tables detected.

Step 9: Save the results as C:\Resources\Invoices\Results.json.

Question #37

Topic 1

You have a factory that produces food products.

You need to build a monitoring solution for staff compliance with personal protective equipment (PPE) requirements. The solution must meet the following requirements:

* Identify staff who have removed masks or safety glasses.
* Perform a compliance check every 15 minutes.
* Minimize development effort.
* Minimize costs.

Which service should you use?

A. Face **Most Voted**

B. Computer Vision

C. Azure Video Analyzer for Media (formerly Video Indexer)

Correct Answer: A

Community vote distribution

C (39%)	A (39%)	B (21%)

You have an Azure Cognitive Search solution and a collection of blog posts that include a category field.

You need to index the posts. The solution must meet the following requirements:

* Include the category field in the search results.

* Ensure that users can search for words in the category field.

* Ensure that users can perform drill down filtering based on category.

Which index attributes should you configure for the category field?

A. searchable, sortable, and retrievable

B. searchable, facetable, and retrievable **Most Voted**

C. retrievable, filterable, and sortable

D. retrievable, facetable, and key

Correct Answer: *B*

Community vote distribution

B (95%) | 5%

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You plan to build an API that will identify whether an image includes a Microsoft Surface Pro or Surface Studio.

You need to deploy a service in Azure Cognitive Services for the API. The service must be named AAA12345678 and must be in the East US Azure region. The solution must use the Free pricing tier.

To complete this task, sign in to the Azure portal.

Correct Answer: *See explanation below.*

Step 1: In the Azure dashboard, click Create a resource.

Step 2: In the search bar, type "Cognitive Services."

You'll get information about the cognitive services resource and a legal notice. Click Create.

Step 3: You'll need to specify the following details about the cognitive service (refer to the image below for a completed example of this page):
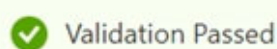
Subscription: choose your paid or trial subscription, depending on how you created your Azure account.

Resource group: click create new to create a new resource group or choose an existing one.

Region: choose the Azure region for your cognitive service. Choose: East US Azure region.

Name: choose a name for your cognitive service. Enter: AAA12345678

Pricing Tier: Select: Free pricing tier

✅ **Validation Passed**

listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

Basics

Subscription	Visual Studio Enterprise Subscription
Resource group	ocr-rg
Region	West Europe
Name	ocr-cognitive-service
Pricing tier	Standard S0

Identity

Identity type	None

[Create] [< Previous] [Next]   Download a template for automation

Step 4: Review and create the resource, and wait for deployment to complete. Then go to the deployed resource.

Note: The Computer Vision Image Analysis service can extract a wide variety of visual features from your images. For example, it can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Tag visual features -

Identify and tag visual features in an image, from a set of thousands of recognizable objects, living things, scenery, and actions. When the tags are ambiguous or not common knowledge, the API response provides hints to clarify the context of the tag. Tagging isn't limited to the main subject, such as a person in the foreground, but also includes the setting (indoor or outdoor), furniture, tools, plants, animals, accessories, gadgets, and so on.

Try out the image tagging features quickly and easily in your browser using Vision Studio.

Reference:

https://docs.microsoft.com/en-us/learn/modules/analyze-images-computer-vision/3-analyze-images https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-image-analysis

SIMULATION -

Use the following login credentials as needed:

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To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You need to build an API that uses the service in Azure Cognitive Services named AAA12345678 to identify whether an image includes a Microsoft Surface Pro or

Surface Studio.

To achieve this goal, you must use the sample images in the C:\Resources\Images folder.

To complete this task, sign in to the Azure portal.

Correct Answer: *See explanation below.*

Step 1: In the Azure dashboard, click Create a resource.

Step 2: In the search bar, type "Cognitive Services."

You'll get information about the cognitive services resource and a legal notice. Click Create.

Step 3: You'll need to specify the following details about the cognitive service (refer to the image below for a completed example of this page):

Subscription: choose your paid or trial subscription, depending on how you created your Azure account.

Resource group: click create new to create a new resource group or choose an existing one.

Region: choose the Azure region for your cognitive service. Choose: East US Azure region.

Name: choose a name for your cognitive service. Enter: AAA12345678

Pricing Tier: Select: Free pricing tier

Step 4: Review and create the resource, and wait for deployment to complete. Then go to the deployed resource.

Note: The Computer Vision Image Analysis service can extract a wide variety of visual features from your images. For example, it can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Tag visual features -

Identify and tag visual features in an image, from a set of thousands of recognizable objects, living things, scenery, and actions. When the tags are ambiguous or not common knowledge, the API response provides hints to clarify the context of the tag. Tagging isn't limited to the main subject, such as a person in the foreground, but also includes the setting (indoor or outdoor), furniture, tools, plants, animals, accessories, gadgets, and so on.

Try out the image tagging features quickly and easily in your browser using Vision Studio.

Reference:

https://docs.microsoft.com/en-us/learn/modules/analyze-images-computer-vision/3-analyze-images https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-image-analysis

SIMULATION -

Use the following login credentials as needed:

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To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You need to get insights from a video file located in the C:\Resources\Video\Media.mp4 folder.

Save the insights to the C:\Resources\Video\Insights.json folder.

To complete this task, sign in to the Azure Video Analyzer for Media at https://www.videoindexer.ai/ by using admin@abc.com

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Correct Answer: *See explanation below.*

Step 1: Login -

Browse to the Azure Video Indexer website and sign in.

URL: https://www.videoindexer.ai/

Login admin@abc.com -

Step 2: Create a project from your video

You can create a new project directly from a video in your account.

1. Go to the Library tab of the Azure Video Indexer website.

2. Open the video that you want to use to create your project. On the insights and timeline page, select the Video editor button.

Folder: C:\Resources\Video\Media.mp4

This takes you to the same page that you used to create a new project. Unlike the new project, you see the timestamped insights segments of the video, that you had started editing previously.

Step 3: Save the insights to the C:\Resources\Video\Insights.json folder.

Reference:

https://docs.microsoft.com/en-us/azure/azure-video-indexer/use-editor-create-project

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You plan to analyze stock photography and automatically generate captions for the images.

You need to create a service in Azure to analyze the images. The service must be named caption12345678 and must be in the East US Azure region. The solution must use the Free pricing tier.

In the C:\Resources\Caption\Params.json folder, enter the value for Key 1 and the endpoint for the new service.

To complete this task, sign in to the Azure portal.

Correct Answer: ⅟₄‹See explanation below.

Step 1: Provision a Cognitive Services resource

If you don't already have one in your subscription, you'll need to provision a Cognitive Services resource.

1. Open the Azure portal at https://portal.azure.com, and sign in using the Microsoft account associated with your Azure subscription.

2. Select the Create a resource button, search for cognitive services, and create a Cognitive Services resource with the following settings:

Subscription: Your Azure subscription

Resource group: Choose or create a resource group (if you are using a restricted subscription, you may not have permission to create a new resource group - use the one provided)

Region: East US Azure region -

Name: caption12345678 -

Pricing tier: Free F0 -

3. Select the required checkboxes and create the resource.

Wait for deployment to complete, and then view the deployment details.

4. When the resource has been deployed, go to it and view its Keys and Endpoint page. You will need the endpoint and one of the keys from this page in the next procedure.

Step 2: Save Key and Endpoint values in Params.json

Open the configuration file, C:\Resources\Caption\Params.json. and update the configuration values it contains to reflect the endpoint and an authentication key for your cognitive services resource. Save your changes.

Reference:

https://microsoftlearning.github.io/AI-102-AIEngineer/Instructions/15-computer-vision.html

SIMULATION -
Use the following login credentials as needed:
To enter your username, place your cursor in the Sign in box and click on the username below.
To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -
The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -
You plan to build an application that will use caption12345678. The application will be deployed to a virtual network named VNet1.
You need to ensure that only virtual machines on VNet1 can access caption12345678.
To complete this task, sign in to the Azure portal.

Correct Answer: *See explanation below.*

Step 1: Create private endpoint for your web app

1. In the left-hand menu, select All Resources > caption12345678 - the name of your web app.

2. In the web app overview, select Settings > Networking.

3. In Networking, select Private endpoints.

4. Select + Add in the Private Endpoint connections page.

5. Enter or select the following information in the Add Private Endpoint page:

Name: Enter caption12345678.

Subscription Select your Azure subscription.

Virtual network Select VNet1.

Subnet: -

Integrate with private DNS zone: Select Yes.

6. Select OK.

Add Private Endpoint ✕

Name *

`mywebappendpoint` ✓

Subscription *

`contoso subscription` ⌄

Virtual network *

`myVNet` ⌄

Subnet *

`mySubnet` ⌄

ⓘ If you have a network security group (NSG) enabled for the subnet above, it will be disabled for private endpoints on this subnet only. Other resources on the subnet will still have NSG enforcement.

Integrate with private DNS zone ⓘ
◯ No ⦿ Yes

ⓘ Your private endpoint will be integrated with the private DNS zone 'privatelink.azurewebsites.net' in the resource group of the selected subnet. If the private DNS zone does not exist, it will be created automatically. Learn more

Reference:

https://docs.microsoft.com/en-us/azure/private-link/tutorial-private-endpoint-webapp-portal