< Previous Unit 6 of 9 ∨



Next >

## Exercise - Deploying a cognitive service to IoT Edge as a container

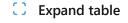
15 minutes

Before deploying the Language Detection module to your edge device, you need to configure the Azure AI services API key and endpoint into the container.

## Create an Azure Al Language service resource

Create an Azure Al Language service resource that matches the container.

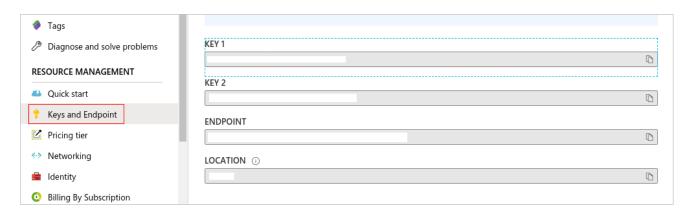
- 1. Sign in to the Azure portal ☑.
- 2. Select Create a resource, and then go to AI + Machine Learning > Language service.
- 3. Enter all the required settings:



Setting	Value
Name	Enter a name (2-64 characters).
Subscription	Select the appropriate subscription.
Location	Select a nearby location.
Pricing tier	Enter <b>S</b> , the standard pricing tier.
Resource group	Select an available resource group.

4. Select **Create**, and wait for the resource to be created. Your browser automatically redirects to the newly created resource page.

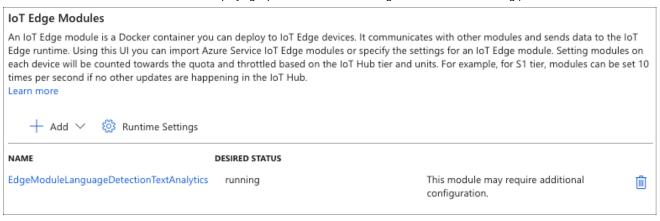
- 5. Go to the resource.
- 6. In the Keys and Endpoint page under Resource Management, copy KEY 1 and Endpoint.



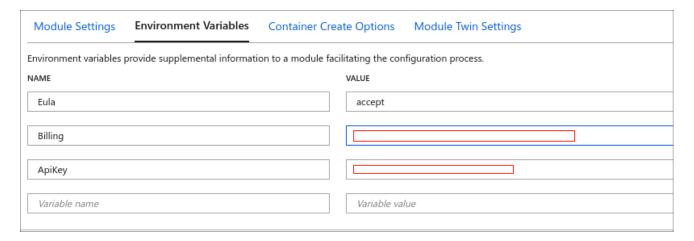
## Deploy the Language Detection module to the edge

To deploy the Language Detection container image as Azure IoT Edge modules from Azure Marketplace, follow these steps:

- 1. In the Azure portal, enter **Edge Module Language Detection (Text Analytics)** into the search and open the Azure Marketplace result.
- 2. Select **Create** to create the image.
- 3. It takes you to the Azure portal's **Target Devices for IoT Edge Module** page. Provide the following required information.
  - a. Select your subscription.
  - b. Select the IoT hub created in an earlier step.
  - c. Select Find device and find your IoT Edge device created in an earlier step.
- 4. Select the **Create** button. It takes you to the **Set modules** page. Keep the page open, because you'll configure Azure Al services in the next step.
- 5. Select on the **EdgeModuleLanguageDetectionTextAnalytics** IoT Edge module.



- 6. Navigate to **Environment Variables** and provide the following information.
  - a. Keep the value accept for Eula.
  - b. Fill out **Billing** with your Azure Al services endpoint.
  - c. Fill out ApiKey with your Azure Al services API key.



7. Navigate to Container Create Options, and verify the options to be:

```
}
```

This configuration adds port 5000 to the exposed ports so that the container can be connected to.

- 8. Select **Update**.
- 9. Select **Next: Routes** to define your route. You define all messages from all modules to go to Azure IoT Hub.
- 10. Select **Next**: **Review** + **create**. You can preview the JSON file that defines all the modules that get deployed to your IoT Edge device.
- 11. Select Create to start the module deployment.
- 12. After you complete the module deployment, you'll go back to the **IoT Edge** page of your IoT hub. Select your device from the list of IoT Edge devices to see its details.
- 13. Scroll down and see the modules listed. Check that the runtime status is running for modules.

## Next unit: Exercise - Test Azure AI services on the IoT Edge device

