



CDW Documentation

AI Chatbot with Sentiment and In Kind Responses

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Requirements

1. Azure Resources Checklist

Resource Type	Name (per your setup)	Notes
Function App	dehamerfuncapp	Your C# Azure Function app
Storage Account	Linked to Function App	Required for deployment—should auto-create if <code>-functions-version</code> specified
Azure Cognitive Services (Text Analytics)	dehamersentimentai	For sentiment classification
Azure OpenAI	don-openai-useast	For GPT-4.1-based reply generation

Prerequisites

Install These

```
brew install dotnet-sdk #This will be version 9 which will not work but gives you the rest of the stuff needed.
brew install azure-cli
```

Assuming you already have created a Resource Group named `don-test-rg`, an OpenAI deployment named and deployed a gpt model named `gpt-4.1`.

Install this from the webpage and follow directions. [dotnet 8.x](#)

Then these

```
dotnet add package Microsoft.Azure.Functions.Worker.Extensions.OpenApi --version 1.4.0
dotnet --list-sdks
dotnet add package Azure.AI.TextAnalytics --version 5.3.0
dotnet add package Azure.AI.OpenAI --version 2.0.0
```

Create Storage Account

```
az storage account create \
  --name dehamerfuncstorage \
  --location eastus \
  --resource-group don-test-rg \
  --sku Standard_LRS
```

Create Function Plan for Windows

```
az functionapp plan create \  
  --resource-group don-test-rg \  
  --name donfuncplan \  
  --location eastus \  
  --sku B1 \  
  --is-linux false
```

Create Function App

```
az functionapp create \  
  --resource-group don-test-rg \  
  --name dehamerfuncapp \  
  --plan donfuncplan \  
  --storage-account dehamerfuncstorage \  
  --runtime dotnet-isolated \  
  --functions-version 4 \  
  --os-type Windows
```

Create TextAnalytics

```
az cognitiveservices account create \  
  --name dehamersentimentai \  
  --resource-group don-test-rg \  
  --location eastus \  
  --kind TextAnalytics \  
  --sku S \  
  --custom-domain dehamersentimentai  
  
az cognitiveservices account update \  
  --name donsentimentai \  
  --resource-group don-test-rg \  
  --set properties.publicNetworkAccess=Enabled
```

Get keys and endpoint for export and app settings

```
export TEXT_ANALYTICS_ENDPOINT=`az cognitiveservices account show \  
  --name dehamersentimentai \  
  --resource-group don-test-rg \  
  --query "properties.endpoint"|sed -e s:\":::g`  
  
export TEXT_ANALYTICS_KEY=`az cognitiveservices account keys list \  
  --name dehamersentimentai \  
  --resource-group don-test-rg \  
  --query "key1" -o tsv`  
  
az functionapp config appsettings set \  
  --name dehamerfuncapp \  
  --resource-group don-test-rg \  
  --settings \  
  TEXT_ANALYTICS_ENDPOINT=$TEXT_ANALYTICS_ENDPOINT \  
  TEXT_ANALYTICS_KEY=$TEXT_ANALYTICS_KEY
```

```
TEXT_ANALYTICS_KEY=$TEXT_ANALYTICS_KEY
export OPENAI_KEY=`az cognitiveservices account keys list \
  --name don-openai-useast \
  --resource-group don-test-rg \
  --query "key1" -o tsv`

export OPENAI_ENDPOINT=https://don-openai-useast.openai.azure.com/

az functionapp config appsettings set \
  --name donfuncapp \
  --resource-group don-test-rg \
  --settings \
  OPENAI_KEY=$OPENAI_KEY \
  OPENAI_ENDPOINT=$OPENAI_ENDPOINT
#Confirm they were set
az functionapp config appsettings list \
  --name dehamerfuncapp \
  --resource-group don-test-rg \
  --query "[?starts_with(name, 'TEXT_') || starts_with(name, 'OPENAI_')]" -o
table
```