

# Deploying the Neighborly App with Azure Functions

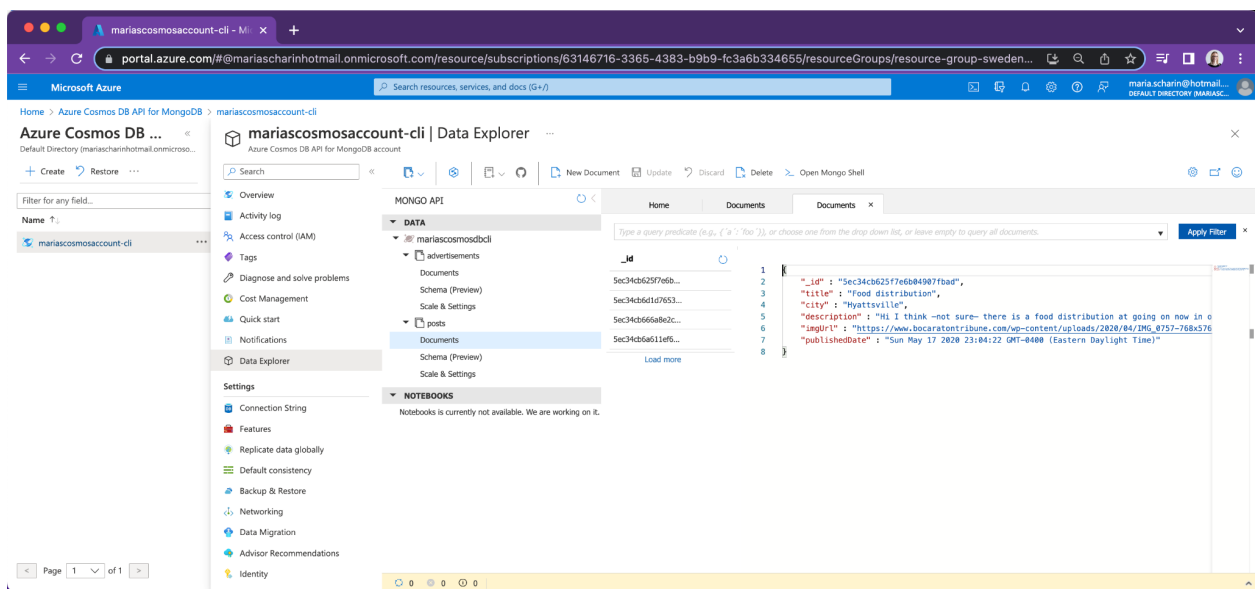
## Part 5: Screenshots & Deliverables

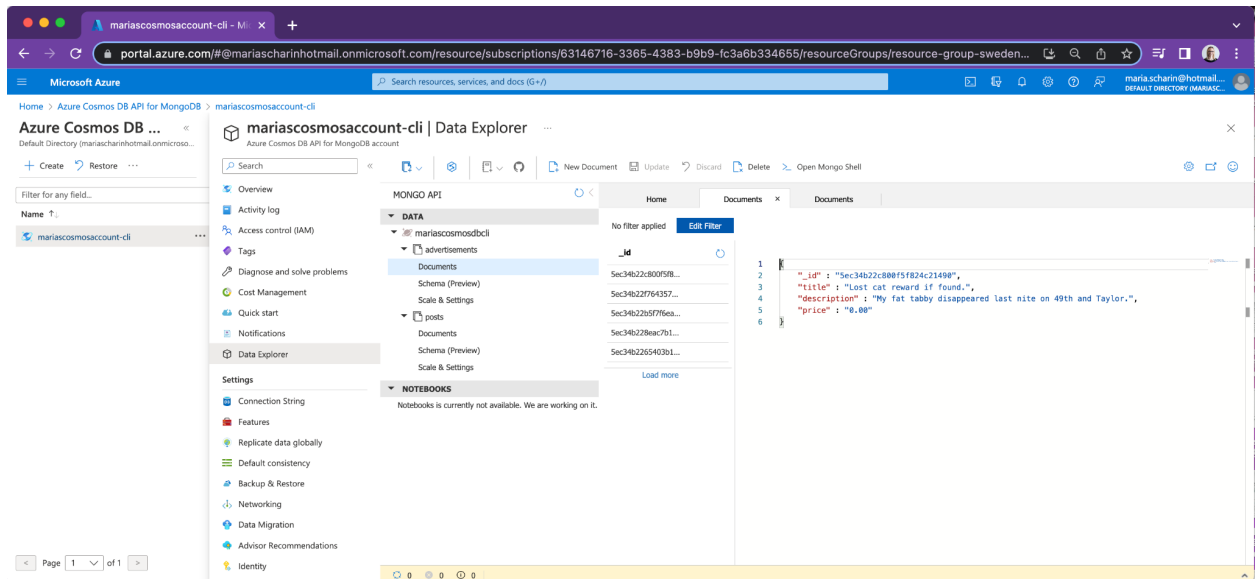
Along with your updated code, make sure to provide screenshots for the following:

### 1. Serverless Functions

#### 1. Database

1. A **screenshot** from the Azure portal showing the database & collections





2. A **screenshot** from the terminal giving confirmation that the two pieces of sample data for advertisements (5 documents) and posts (4 documents) were imported correctly, or include this data in the **live website**.

```

maria@Marias-MacBook-Pro: ~/Udacity/Azure/AzureMicroservices/finalProject/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter
+ nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter git:(master) x source variables.sh
=====Local Environment Variables=====
functionApp = mariasfunctionapp
resourceGroup = resource-group-swedencentral
storageAccount = mariaslabaccount
region = swedencentral
cosmosDBAccountName = mariascosmosaccount-cli
serverVersion = 4.0
databaseName = mariascosmosdbcli
connectionString = mongodb://mariascosmosaccount-cli:KliYHMMQXaSy2srxR0KcXko2VLE5cwyR029j40c9xJuz2YQpW5HSo8LME0k85724z0U0f8ihMT7wdgTrQgSQ==@mariascosmosaccount-cli.mongo.cosmos.azure.com:10255/?ssl=true&replicaSet=globaldb&retrywrites=false&maxIdleTimeMS=120000&appName=@mariascosmosaccount-cli#
webApp = mariasDeployApp
containerRegistry = mariascontainerregistry
AKSCluster = mariaskubernetescluster
imageName = mariasimage
imageTag = v1
=====End of Result=====
+ nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter git:(master) x mongoimport --uri $connectionString --db $databaseName --collection 'advertisements' --file=/Users/maria/Udacity/Azure/AzureMicroservices/finalProject/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter/sample_data/sampleAds.json --jsonArray --writeConcern={w:0}
2022-09-16T10:40:52.691+0200 connected to: mongodb://[**REDACTED**]@mariascosmosaccount-cli.mongo.cosmos.azure.com:10255/?ssl=true&replicaSet=globaldb&retrywrites=false&maxIdleTimeMS=120000&appName=@mariascosmosaccount-cli#
2022-09-16T10:40:52.780+0200 done
+ nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter git:(master) x mongoimport --uri $connectionString --db $databaseName --collection 'posts' --file=/Users/maria/Udacity/Azure/AzureMicroservices/finalProject/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter/sample_data/samplePosts.json --jsonArray --writeConcern={w:0}
2022-09-16T10:42:14.720+0200 connected to: mongodb://[**REDACTED**]@mariascosmosaccount-cli.mongo.cosmos.azure.com:10255/?ssl=true&replicaSet=globaldb&retrywrites=false&maxIdleTimeMS=120000&appName=@mariascosmosaccount-cli#
2022-09-16T10:42:14.766+0200 done
+ nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter git:(master) x

```

2. *Triggers in Azure* - A **screenshot**, including URL, from the Azure portal where it is shown what endpoints are live.

```
Remote build succeeded!
Syncing triggers...
Functions in mariasfunctionapp:
  createAdvertisement - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/createadvertisement

  deleteAdvertisement - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/deleteadvertisement

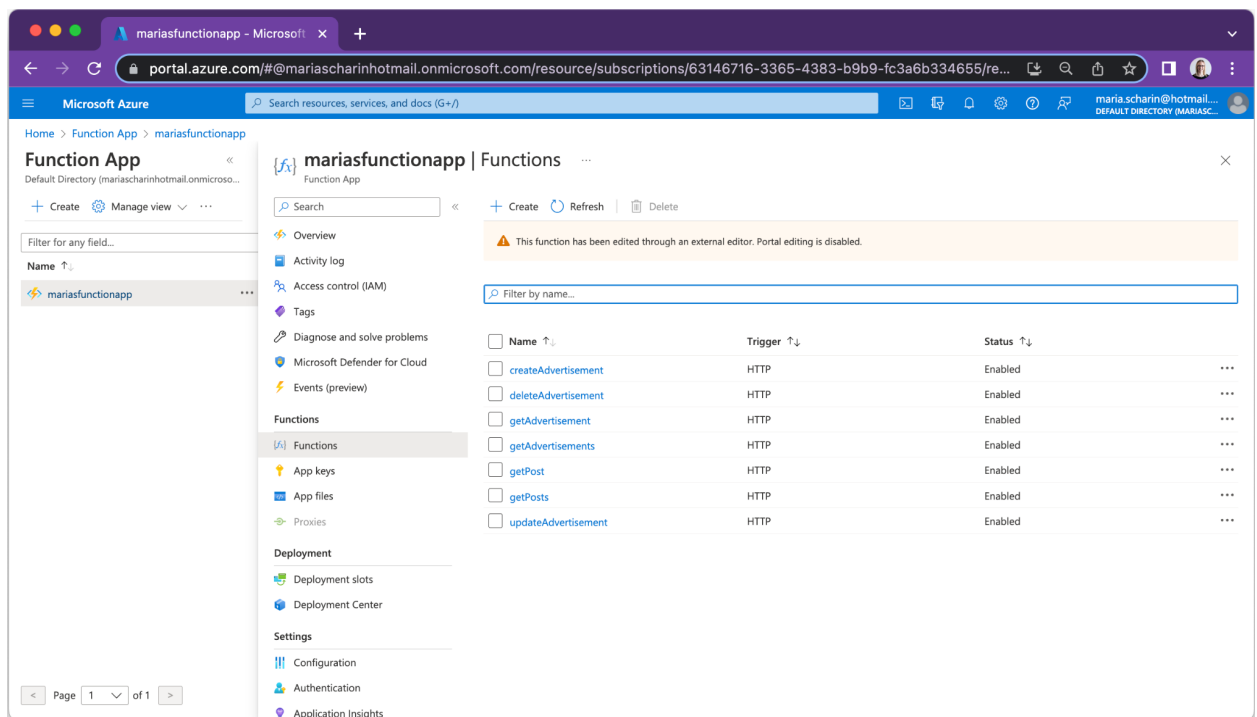
  getAdvertisement - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/getadvertisement

  getAdvertisements - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/getadvertisements

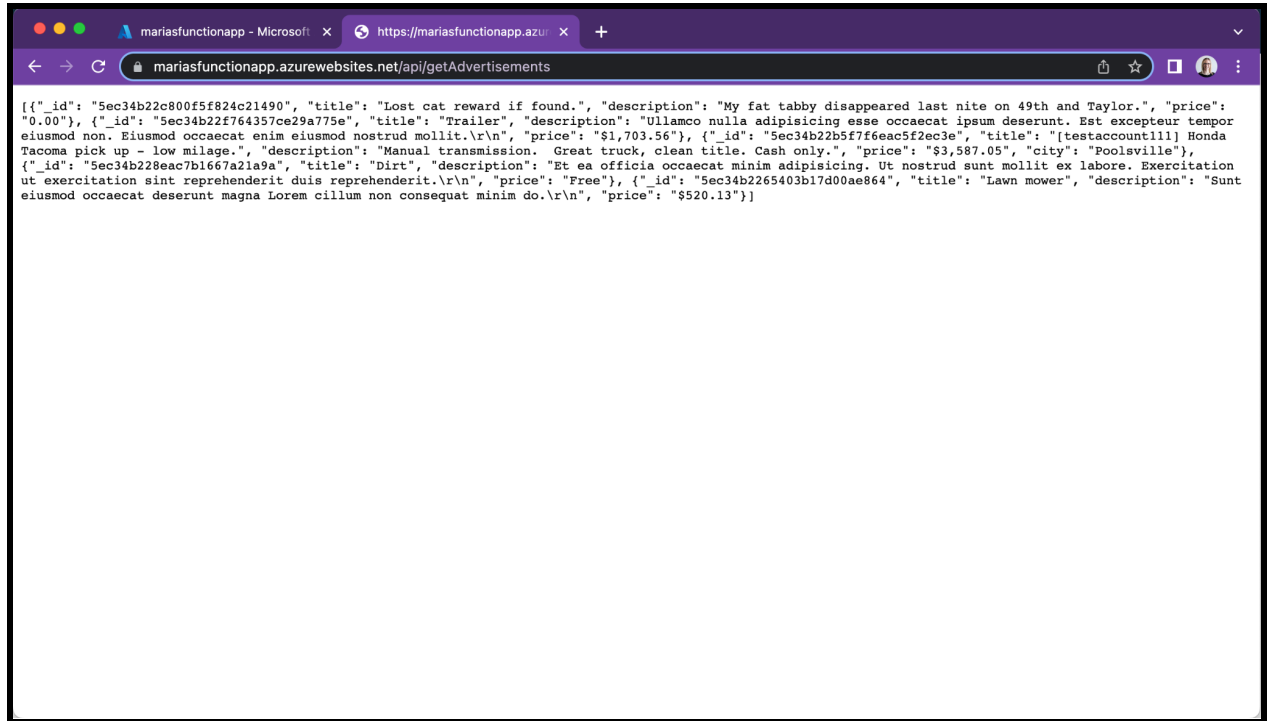
  getPost - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/getpost

  getPosts - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/getposts

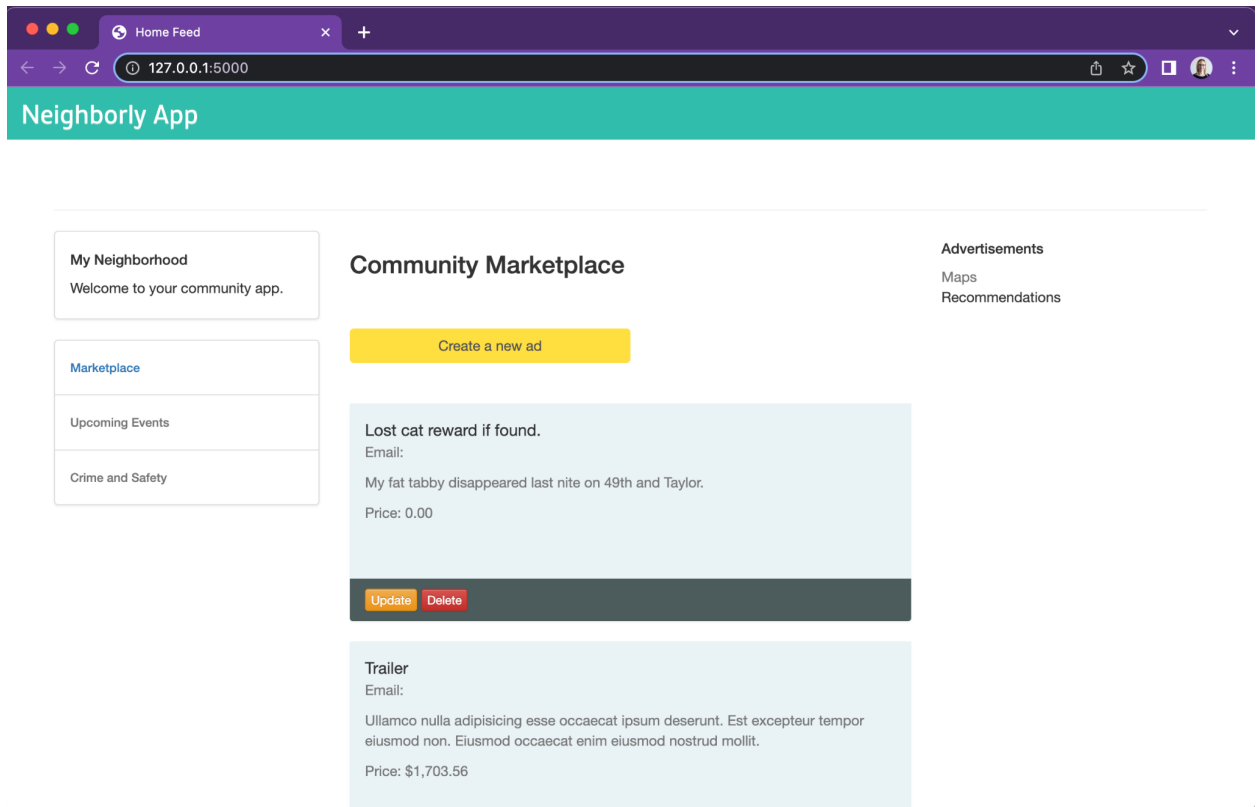
  updateAdvertisement - [httpTrigger]
    Invoke url: https://mariasfunctionapp.azurewebsites.net/api/updateadvertisement
```



3. *Triggers Connect to Database* - A **screenshot**, including URL, of at least the data returned from querying the `getAdvertisements` endpoint; other endpoints will be checked for reasonableness within the related code files.

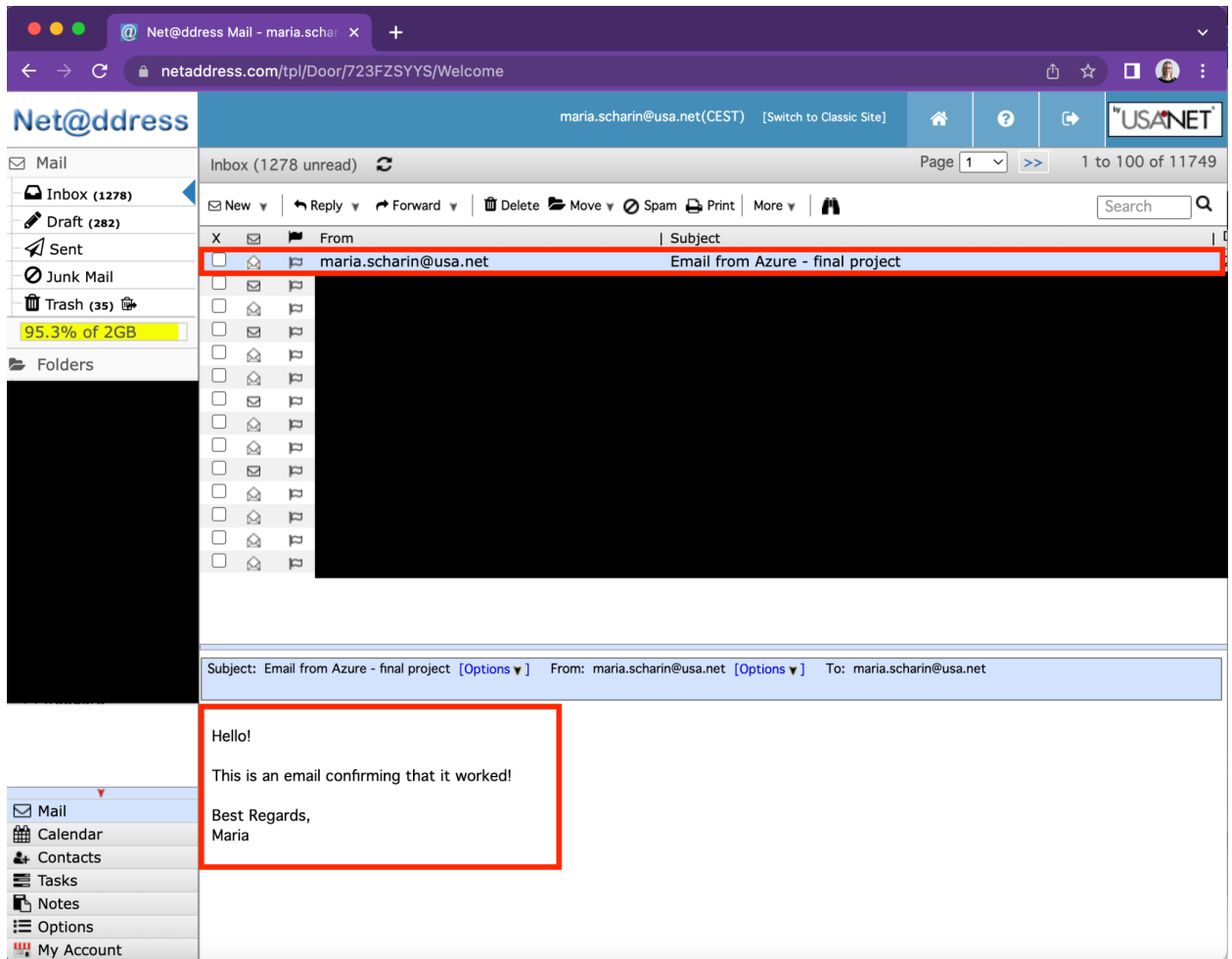


4. *Flask Front End: Localhost* - A **screenshot** of the front-end appropriately pulling up posts when you visit localhost. Note that if you have provided a screenshot or URL to a **live site** with the front-end later on in the assignment, that can also be used as proof here.

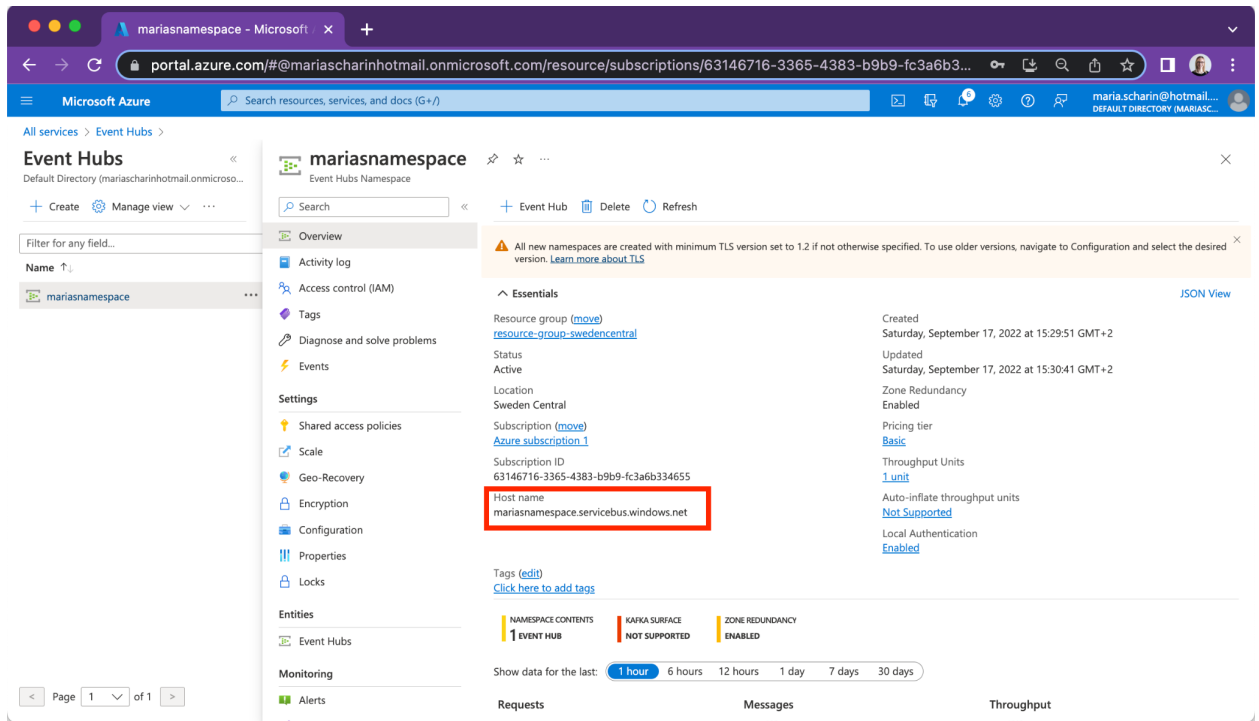


## 2. Logic Apps & Event Hubs

1. *Logic App* - A **screenshot** from your inbox notification.



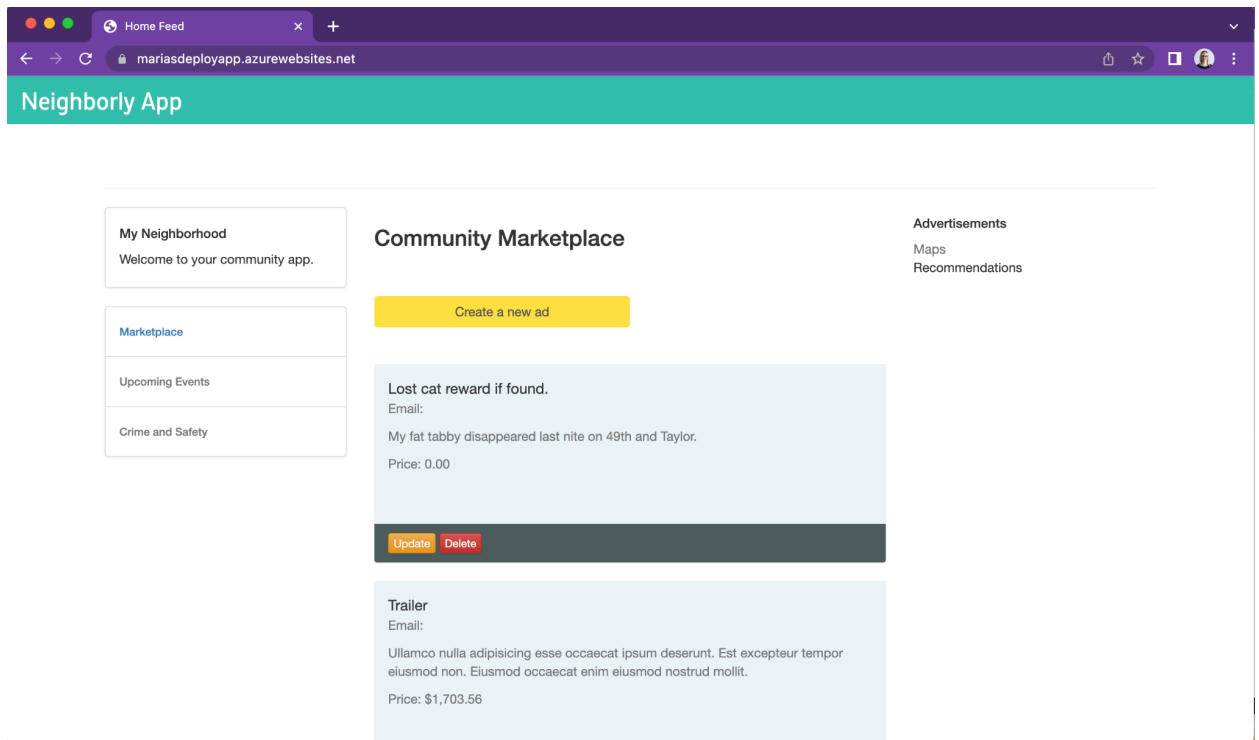
2. *Event Hub* - A **screenshot** with the namespace URL.



### 3. Deploying Your Application

1. *App Service Deployment* - The **live url** from Azure App Service (which should be accessible to all users on the World Wide Web), or a **screenshot** should be provided, including the URL, of the previously live site.

<https://mariasdeployapp.azurewebsites.net/>



2. *Dockerfile* - A **screenshot** of the Dockerfile from Azure Container Registry as evidence.

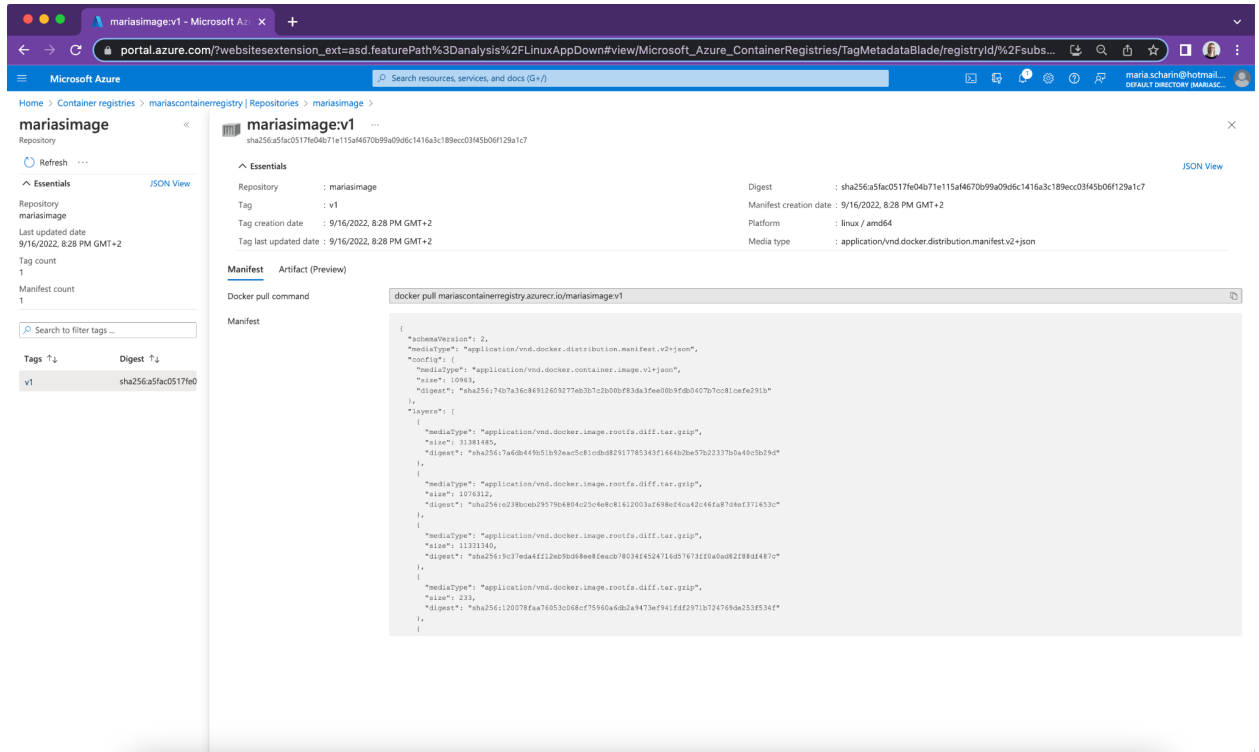
```
(nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter) → NeighborlyAPI git:(master) x cat Dockerfile
# To enable ssh & remote debugging on app service change the base image to the one below
# FROM mcr.microsoft.com/azure-functions/python:4-python3.8-appservice
FROM mcr.microsoft.com/azure-functions/python:4-python3.8

ENV AzureWebJobsScriptRoot=/home/site/wwwroot \
    AzureFunctionsJobHost__Logging__Console__IsEnabled=true

COPY requirements.txt /
RUN pip install -r /requirements.txt

COPY . /home/site/wwwroot
(nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter) → NeighborlyAPI git:(master) x
```





### 3. *Kubernetes* - A screenshot of confirmation from the terminal, or from within Azure, as evidence.

```
+ NeighborlyAPI git:(master) x func kubernetes deploy --name mariasfunctionapp --registry mariascontainerregistry.azurecr.io
Running 'docker build -t mariascontainerregistry.azurecr.io/mariasfunctionapp:latest /Users/maria/Udacity/Azure/AzureMicroservices/FinalProject/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project-starter/NeighborlyAPI'...done
secret/mariasfunctionapp unchanged
secret/func-keys-kube-secret-mariasfunctionapp configured
serviceaccount/mariasfunctionapp-function-keys-identity-svc-act unchanged
role.rbac.authorization.k8s.io/functions-keys-manager-role unchanged
rolebinding.rbac.authorization.k8s.io/mariasfunctionapp-function-keys-identity-svc-act-functions-keys-manager-rolebinding unchanged
service/mariasfunctionapp-http unchanged
deployment.apps/mariasfunctionapp-http unchanged
deployment "mariasfunctionapp-http" successfully rolled out
createAdvertisement - [httpTrigger]
Invoke url: http://20.240.157.225/api/createadvertisement

deleteAdvertisement - [httpTrigger]
Invoke url: http://20.240.157.225/api/deleteadvertisement

getAdvertisement - [httpTrigger]
Invoke url: http://20.240.157.225/api/getadvertisement

getAdvertisements - [httpTrigger]
Invoke url: http://20.240.157.225/api/getadvertisements

getPost - [httpTrigger]
Invoke url: http://20.240.157.225/api/getpost

getPosts - [httpTrigger]
Invoke url: http://20.240.157.225/api/getposts

updateAdvertisement - [httpTrigger]
Invoke url: http://20.240.157.225/api/updateadvertisement

Master key: rXNY6C7jISLWZBLdVtjWVeShdF0_hJ0XbGfJqsQl1AzFuguqf_A==
+ NeighborlyAPI git:(master) x
```



```
[{"_id": "5ec34b22c800f5f824c21490", "title": "Lost cat reward if found.", "description": "My fat tabby disappeared last nite on 49th and Taylor.", "price": "0.00"}, {"_id": "5ec34b22f764357ce29a775e", "title": "Trailer", "description": "Ullamco nulla adipisicing esse occaecat ipsum deserunt. Est excepteur tempor eiusmod non. Eiusmod occaecat enim eiusmod nostrud mollit.\r\n", "price": "$1,703.56"}, {"_id": "5ec34b22b5f7f6eac5f2ec3e", "title": "[testaccount111] Honda Tacoma pick up - low milage.", "description": "Manual transmission. Great truck, clean title. Cash only.", "price": "$3,587.05", "city": "Pooleville"}, {"_id": "5ec34b228eac7b1667a21a9a", "title": "Dirt", "description": "Et ea officia occaecat minim adipisicing. Ut nostrud sunt mollit ex labore. Exercitation ut exercitation sint reprehenderit dui reprehenderit.\r\n", "price": "Free"}, {"_id": "5ec34b2265403b17d00ae864", "title": "Lawn mower", "description": "Sunt eiusmod occaecat deserunt magna Lorem cillum non consequat minim do.\r\n", "price": "$520.13"}]
```