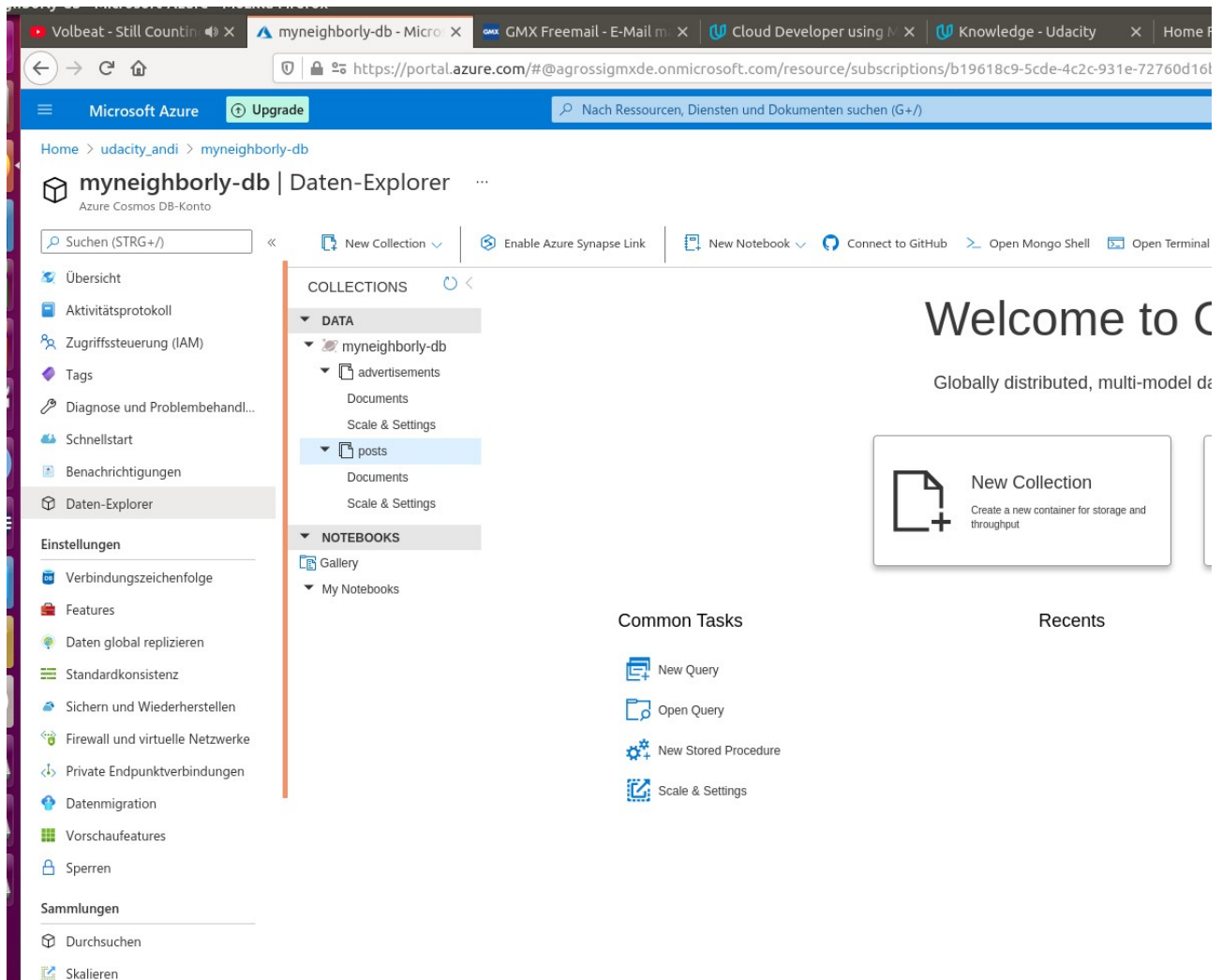


1. Serverless Functions

1. Database

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



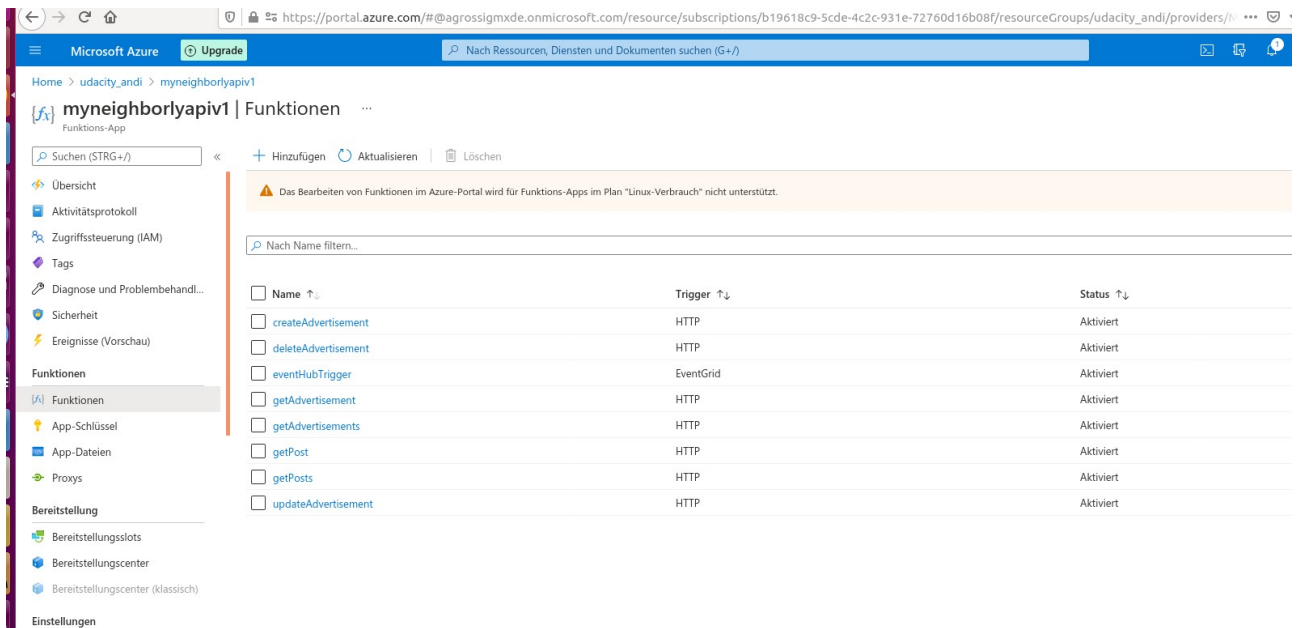
2. A **screenshot** from the terminal giving confirmation that the two pieces of sample data for advertisements (5 documents) and posts (4 documents) were imported correctly, or include this data in the **live website**.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: bash
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$ # Copy/past the primary password here
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$ PRIMARY_PW="bn0IRqxiU54HKbLYZvsXjOnMkc1pa0zWAHeRKbagx4EPAD8Be5lhAYjtx04yN8EA9LuFDsZ4jIsPkzAXKfqtg=="
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$ mongoimport -h $MONGO08_HOST:$MONGO08_PORT -d $DATABASE_NAME -c $SAMPLE_COLLECTION1 -u $USERNAME -p $PRIMARY_PW --ssl --jsonArray --file ./sample_data/sampleAds.json
2021-03-29T10:34:21.143+0200 connected to: myneighborly-db.mongo.cosmos.azure.com:10255
2021-03-29T10:34:21.447+0200 imported 4 documents
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$ mongoimport -h $MONGO08_HOST:$MONGO08_PORT -d $DATABASE_NAME -c $SAMPLE_COLLECTION2 -u $USERNAME -p $PRIMARY_PW --ssl --jsonArray --file ./sample_data/samplePosts.json
2021-03-29T10:34:21.683+0200 connected to: myneighborly-db.mongo.cosmos.azure.com:10255
2021-03-29T10:34:22.085+0200 imported 5 documents
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$ cd NeighborlyAPI
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
```

2. Triggers in Azure

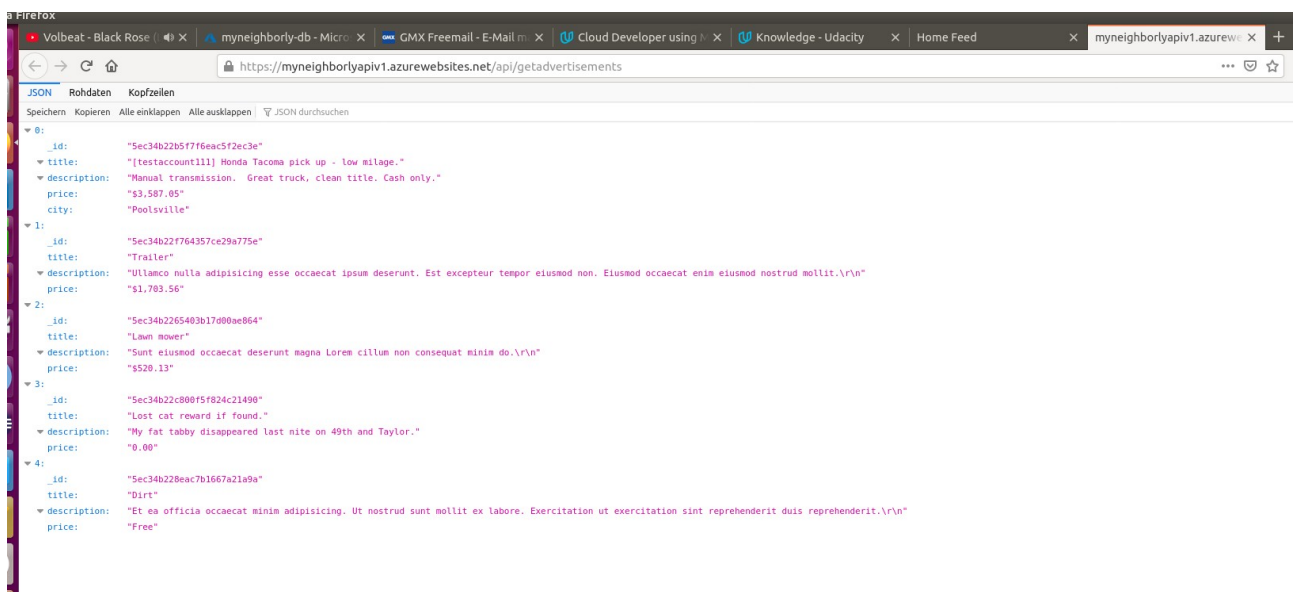
A **screenshot**, including URL, from the Azure portal where it is shown what endpoints are live.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
root (0)
Uploading built content /home/site/artifacts/functionappartifact.squashfs for linux consumption function app...
Resetting all workers for myneighborlyapiv1.azurewebsites.net
Deployment successful.
Remote build succeeded!
Syncing triggers...
Functions in myneighborlyapiv1:
  createAdvertisement - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/createadvertisement
  deleteAdvertisement - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/deleteadvertisement
  eventHubTrigger - [eventGridTrigger]
  getAdvertisement - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/getadvertisement
  getAdvertisements - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/getadvertisements
  getPost - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/getpost
  getPosts - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/getposts
  updateAdvertisement - [httpTrigger]
    Invoke url: https://myneighborlyapiv1.azurewebsites.net/api/updateadvertisement
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project$
```

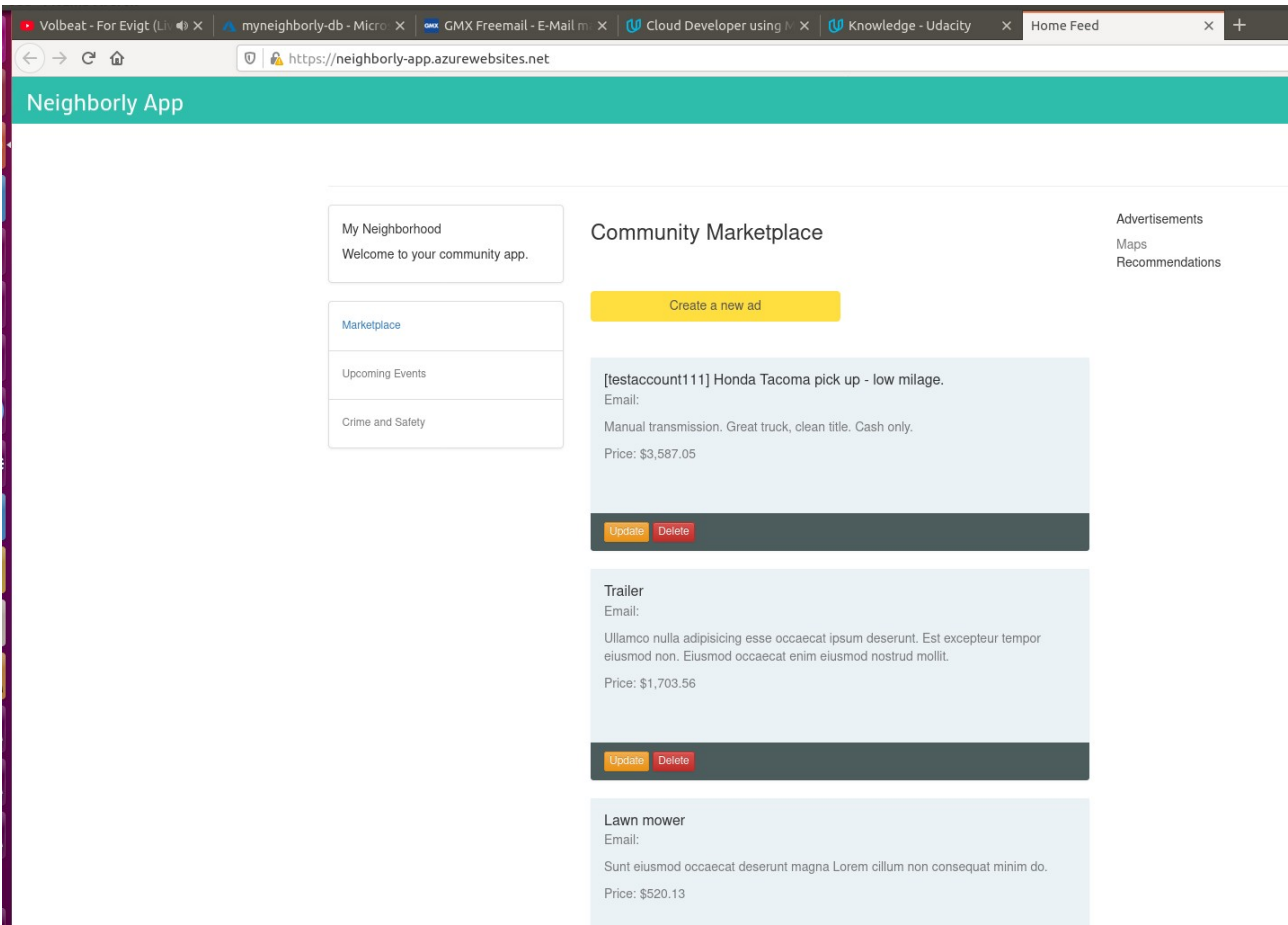


3. Triggers Connect to Database

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.

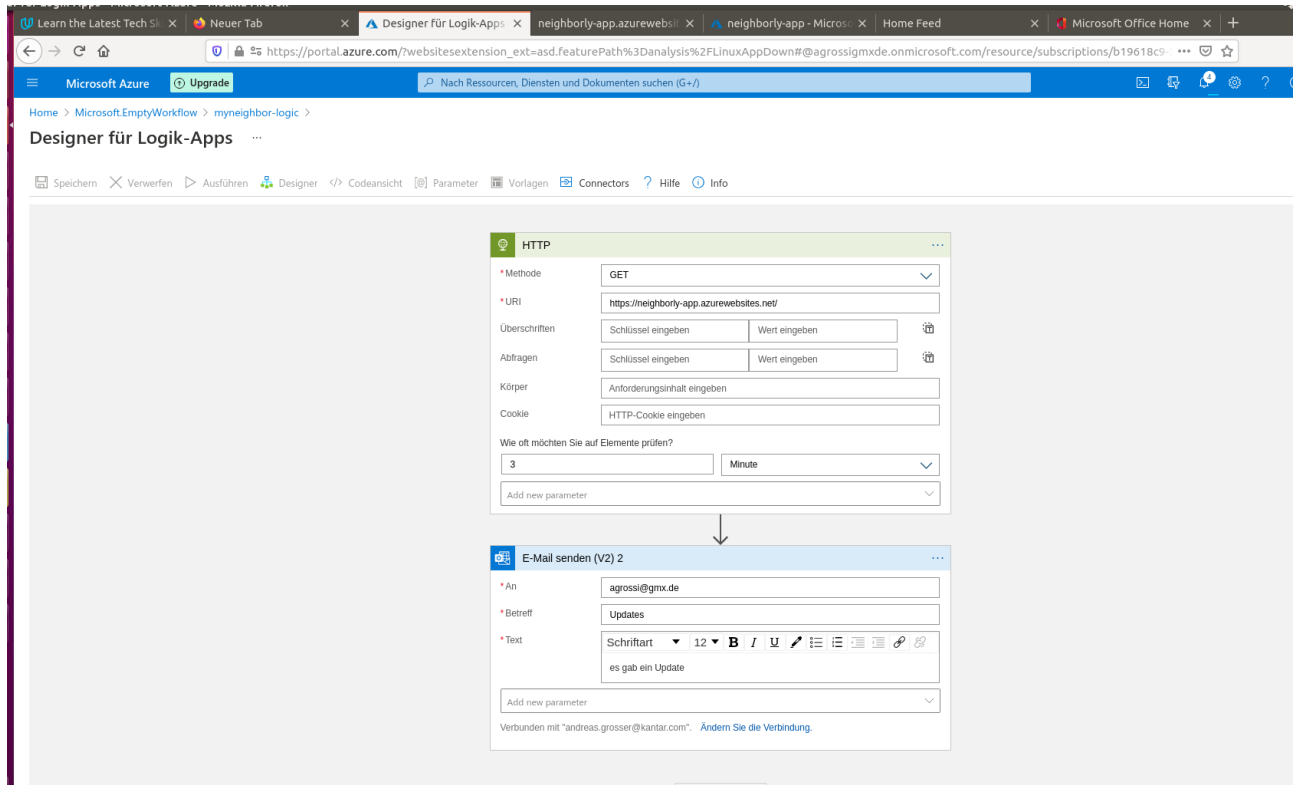


4. Flask Front End

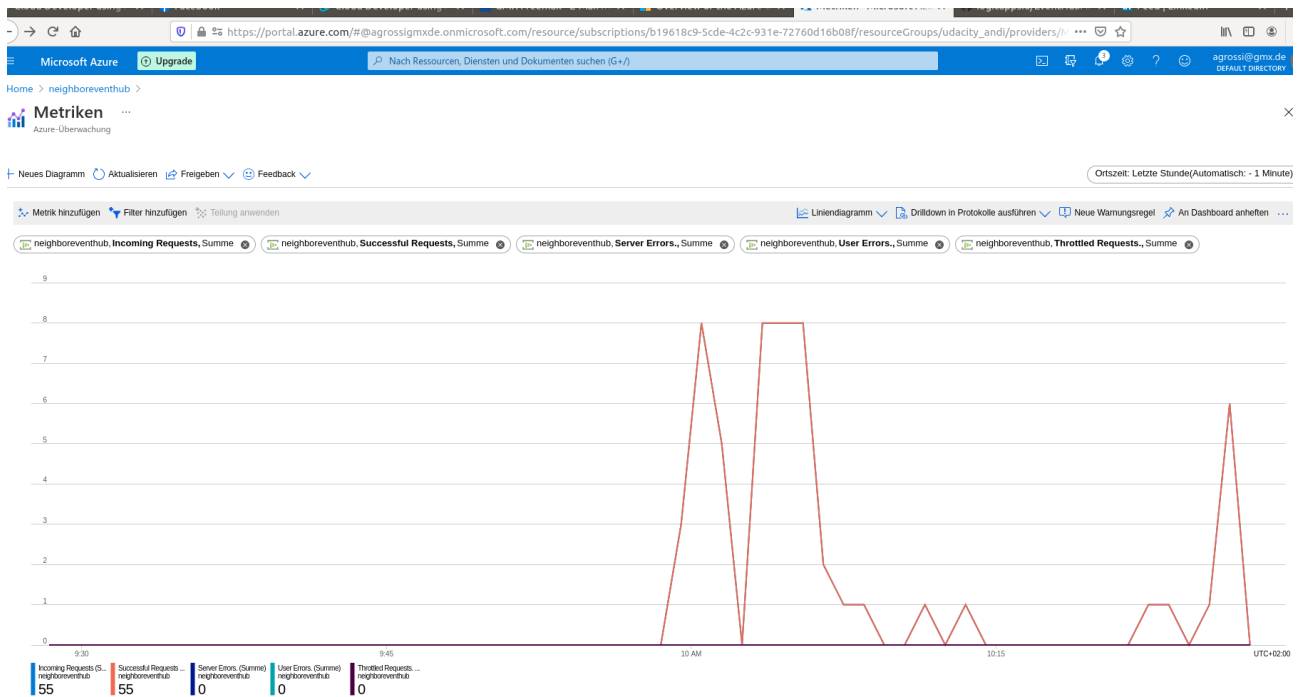


2. Logic Apps & Event Hubs

1.Logic App: here is the screenshot from my logic app

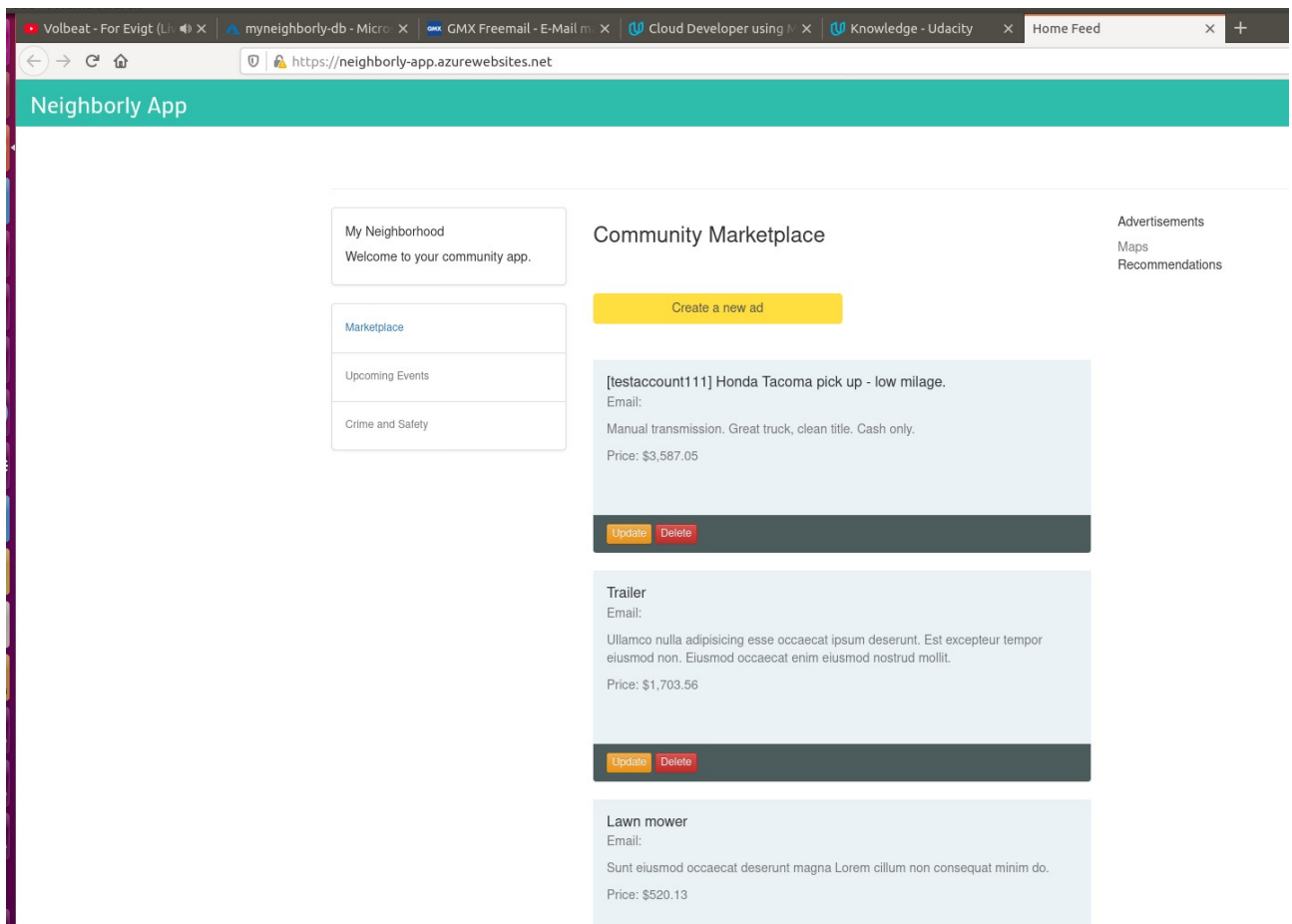


2.Event Hub

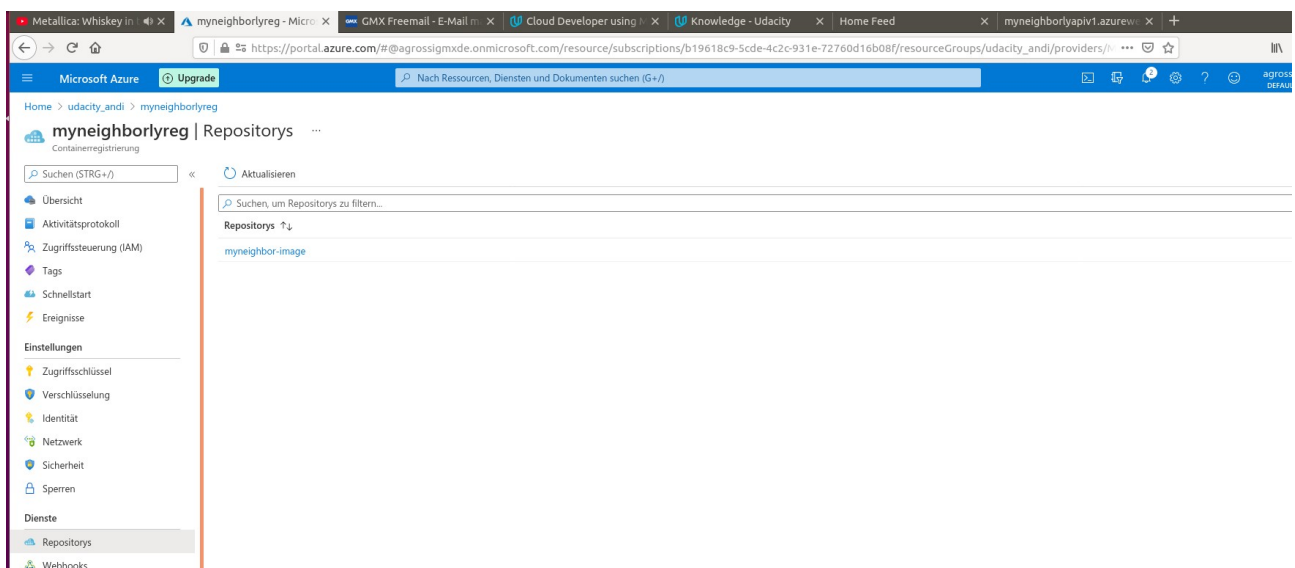


3. Deploying Your Application

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.



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



```

9eb82f04c782: Pushed
latest: digest: sha256:0d4c1aed10c99fd4410f64bbb3c327ca11763df8f2e6f41d865098cc656f184f size: 2846
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microservi
-starter/NeighborlyAPI$
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microservi
-starter/NeighborlyAPI$ az acr repository list --name myneighborlyreg.azurecr.io --output table
The login server endpoint suffix '.azurecr.io' is automatically omitted.
Result
-----
myneighbor-image
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microservi
-starter/NeighborlyAPI$ az aks get-credentials --resource-group $RESOURCE_GROUP --name neighborcluster
A different object named neighborcluster already exists in your kubeconfig file.
Overwrite? (y/n): y

```

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

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
secret/func-keys-kube-secret-neighborcluster created
serviceaccount/neighborcluster-function-keys-identity-svc-act created
role.rbac.authorization.k8s.io/functions-keys-manager-role created
rolebinding.rbac.authorization.k8s.io/neighborcluster-function-keys-identity-svc-act-functions-keys-man
service/neighborcluster-http created
deployment.apps/neighborcluster-http created
Waiting for deployment "neighborcluster-http" rollout to finish: 0 of 1 updated replicas are available.
deployment "neighborcluster-http" successfully rolled out
  createAdvertisement - [httpTrigger]
  Invoke url: http://20.61.137.91/api/createadvertisement

  deleteAdvertisement - [httpTrigger]
  Invoke url: http://20.61.137.91/api/deleteadvertisement

  getAdvertisement - [httpTrigger]
  Invoke url: http://20.61.137.91/api/getadvertisement

  getAdvertisements - [httpTrigger]
  Invoke url: http://20.61.137.91/api/getadvertisements

  getPost - [httpTrigger]
  Invoke url: http://20.61.137.91/api/getpost

  getPosts - [httpTrigger]
  Invoke url: http://20.61.137.91/api/getposts

  updateAdvertisement - [httpTrigger]
  Invoke url: http://20.61.137.91/api/updateadvertisement

Master key: u7rp4B0nMaEdjRBotCC4qv8DLxX0QKhGFgjqdLEK6n/l6durra3rWA==
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microse

```

```

  Invoke url: http://20.61.137.91/api/updateadvertisement

Master key: u7rp4B0nMaEdjRBotCC4qv8DLxX0QKhGFgjqdLEK6n/l6durra3rWA==
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microservi
-starter/NeighborlyAPI$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
aks-agentpool-20185154-vmss000000 Ready agent 8m33s v1.18.14
aks-agentpool-20185154-vmss000001 Ready agent 8m34s v1.18.14
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microservi
-starter/NeighborlyAPI$ kubectl config get-contexts
CURRENT NAME CLUSTER AUTHINFO NAMESPACE
* andicluster1 andicluster1 clusterUser_udacity_andi_andicluster1
myneighborlyreg myneighborlyreg clusterUser_udacity_andi_mynighborlyreg
neighborcluster neighborcluster clusterUser_udacity_andi_neighborcluster
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure Microservi
-starter/NeighborlyAPI$

```


In general all created elements in Azure:

The screenshot shows the Microsoft Azure portal interface for the resource group 'udacity_andi'. The left sidebar contains navigation links for Overview, Activity Log, Access Control (IAM), Tags, Events, Settings, and Monitoring. The main content area shows the 'Zusammenfassung' (Summary) section with subscription details and a list of resources. The resources are filtered by 'Typ == alle' and 'Standort == alle'. The table below lists the resources and their types.

Name	Typ	Standort
eventhubs	API-Verbindung	Europa, Westen
gmail	API-Verbindung	Europa, Westen
myneighborly-db	Azure Cosmos DB-Konto	Europa, Westen
myneighborlyapistorage	Speicherkonto	Europa, Westen
myneighborlyapiv1	Funktions-App	Europa, Westen
myneighborlyapiv1	Application Insights	Europa, Westen
myneighborlyreg	Containerregistrierung	Europa, Westen
neighborcluster	Kubernetes-Dienst	Europa, Westen
neighborly-logic-app	Logik-App	Europa, Westen
neighborlogicapp	Logik-App	Europa, Westen
office365	API-Verbindung	Europa, Westen
udacityneighbor	Event Hubs-Namespace	Europa, Westen
WestEuropeLinuxDynamicPlan	App Service-Plan	Europa, Westen