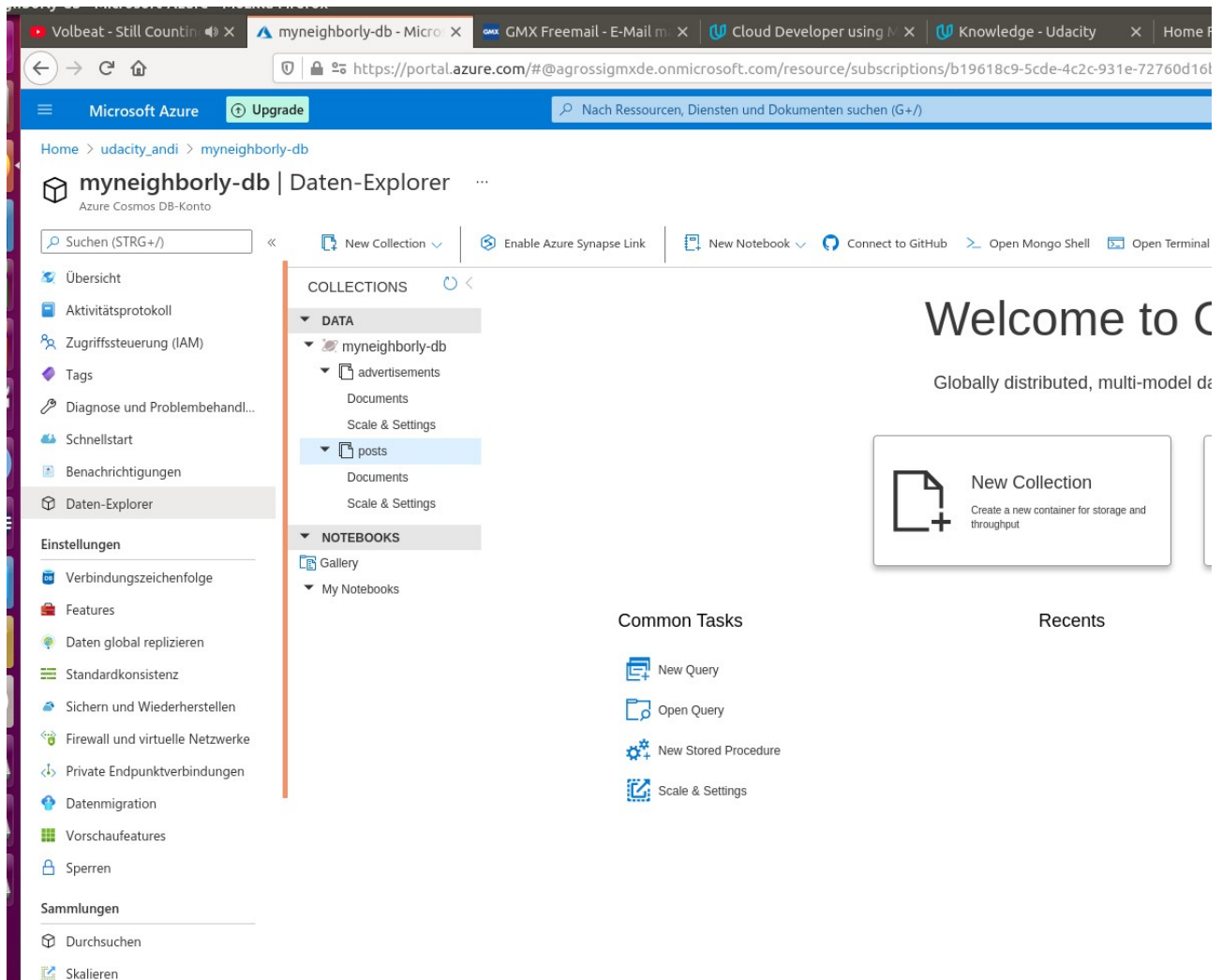


1. Serverless Functions

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="bn0IRqxiU54HKbLYZvsXj0nMkc1pa0zWAHeRKbagx4EPAD8Be5lhAYjtx04yN8EA9LuFDsZ4jIsPkzAXKfqtg=="
(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 $PRIMARY_PW --ssl --jsonArray --file ./sample_data/samplePosts.json
2021-03-29T10:34:21.143+0200 connected to: myneighborly-db.mongo.cosmos.azure.com:10255
2021-03-29T10:34:21.447+0200 imported 4 documents
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$ mongoimport -h $MONGO08 HOST:$MONGO08 PORT:-d $DATABASE_NAME -c $SAMPLE_COLLECTION2 -u $USERNAME -p $PRIMARY_PW --ssl --jsonArray --file ./sample_data/sampleAds.json
2021-03-29T10:34:22.083+0200 connected to: myneighborly-db.mongo.cosmos.azure.com:10255
2021-03-29T10:34:22.085+0200 imported 5 documents
(azure) andi@andi-To-be-filled-by-0-E-M:~/Dokumente/GitHub/Coursera_Azure_Cloud_Developer/Azure_Microservices/nd081-c2-Building-and-deploying-cloud-native-applications-from-scratch-project
-starters$
(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$
```

Microsoft Azure Upgrade Nach Ressourcen, Diensten und Dokumenten suchen (G+)

Home > udacity_andi > myneighborlyapiv1

myneighborlyapiv1 | Funktionen

Funktions-App

Suchen (STRG+J) « + Hinzufügen Aktualisieren Löschen

Das Bearbeiten von Funktionen im Azure-Portal wird für Funktions-Apps im Plan "Linux-Verbrauch" nicht unterstützt.

Nach Name filtern...

<input type="checkbox"/> Name ↑↓	Trigger ↑↓	Status ↑↓
<input type="checkbox"/> createAdvertisement	HTTP	Aktiviert
<input type="checkbox"/> deleteAdvertisement	HTTP	Aktiviert
<input type="checkbox"/> eventHubTrigger	EventGrid	Aktiviert
<input type="checkbox"/> getAdvertisement	HTTP	Aktiviert
<input type="checkbox"/> getAdvertisements	HTTP	Aktiviert
<input type="checkbox"/> getPost	HTTP	Aktiviert
<input type="checkbox"/> getPosts	HTTP	Aktiviert
<input type="checkbox"/> updateAdvertisement	HTTP	Aktiviert

Übersicht
Aktivitätsprotokoll
Zugriffssteuerung (IAM)
Tags
Diagnose und Problembehandl...
Sicherheit
Ereignisse (Vorschau)
Funktionen
Funktionen
App-Schlüssel
App-Dateien
Proxys
Bereitstellung
Bereitstellungslots
Bereitstellungszentrum
Bereitstellungszentrum (klassisch)
Einstellungen

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.

Firefox

Volbeat - Black Rose | myneighborly-db - Micro... GMX Freemail - E-Mail Knowledge - Udacity Home Feed myneighborlyapiv1.azurewebsites.net

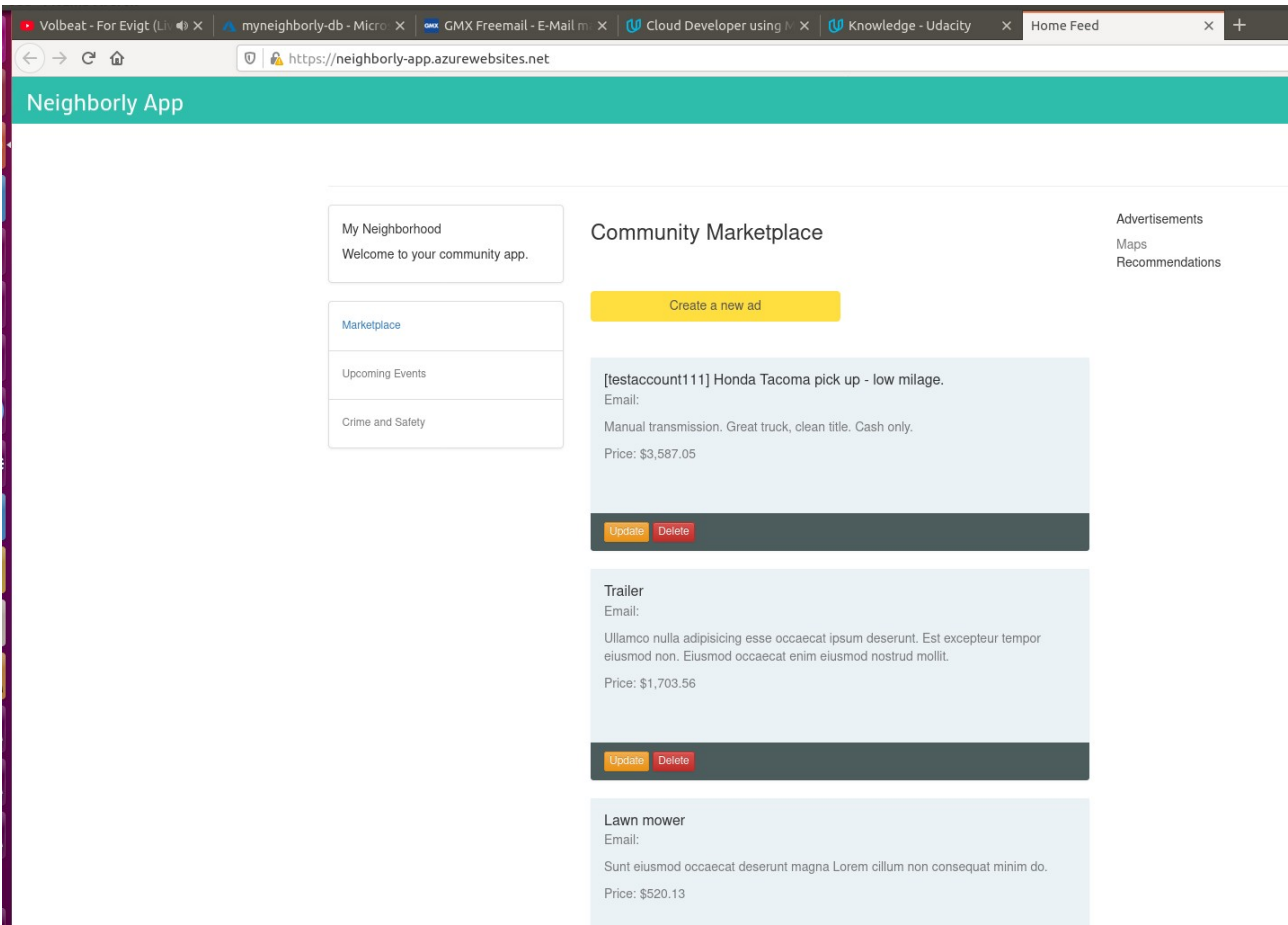
https://myneighborlyapiv1.azurewebsites.net/api/getadvertisements

JSON Rohdaten Kopfzeilen

Speichern Kopieren Alle einklappen Alle ausklappen JSON durchsuchen

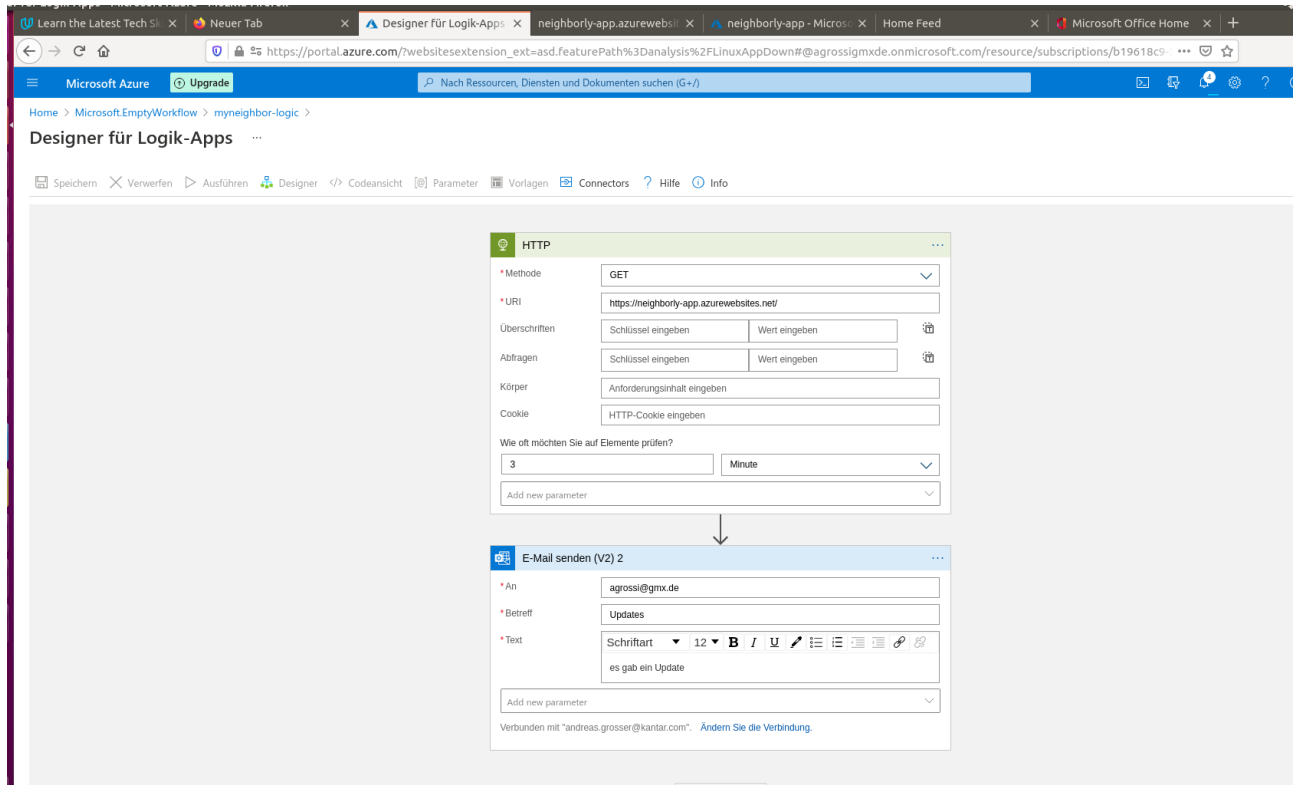
```
{
  "0": {
    "_id": "5ec34b22b5f7f6eac5f2ec3e",
    "title": "[testaccount111] Honda Tacoma pick up - low milage.",
    "description": "Manual transmission. Great truck, clean title. Cash only.",
    "price": "$3,587.05",
    "city": "Poolsville"
  },
  "1": {
    "_id": "5ec34b22f764357ce29a775e",
    "title": "Trailer",
    "description": "Ullamco nulla adipisicing esse occaecat ipsum deserunt. Est excepteur tempor eiusmod non. Eiusmod occaecat enim eiusmod nostrud mollit.\r\n",
    "price": "$1,783.56"
  },
  "2": {
    "_id": "5ec34b2265403b17d00ae864",
    "title": "Lawn mower",
    "description": "Sunt eiusmod occaecat deserunt magna Lorem cillum non consequat minim do.\r\n",
    "price": "$520.13"
  },
  "3": {
    "_id": "5ec34b22c800f5f824c21490",
    "title": "Lost cat reward if found.",
    "description": "My fat tabby disappeared last nite on 49th and Taylor.",
    "price": "0.00"
  },
  "4": {
    "_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"
  }
}
```

4. Flask Front End

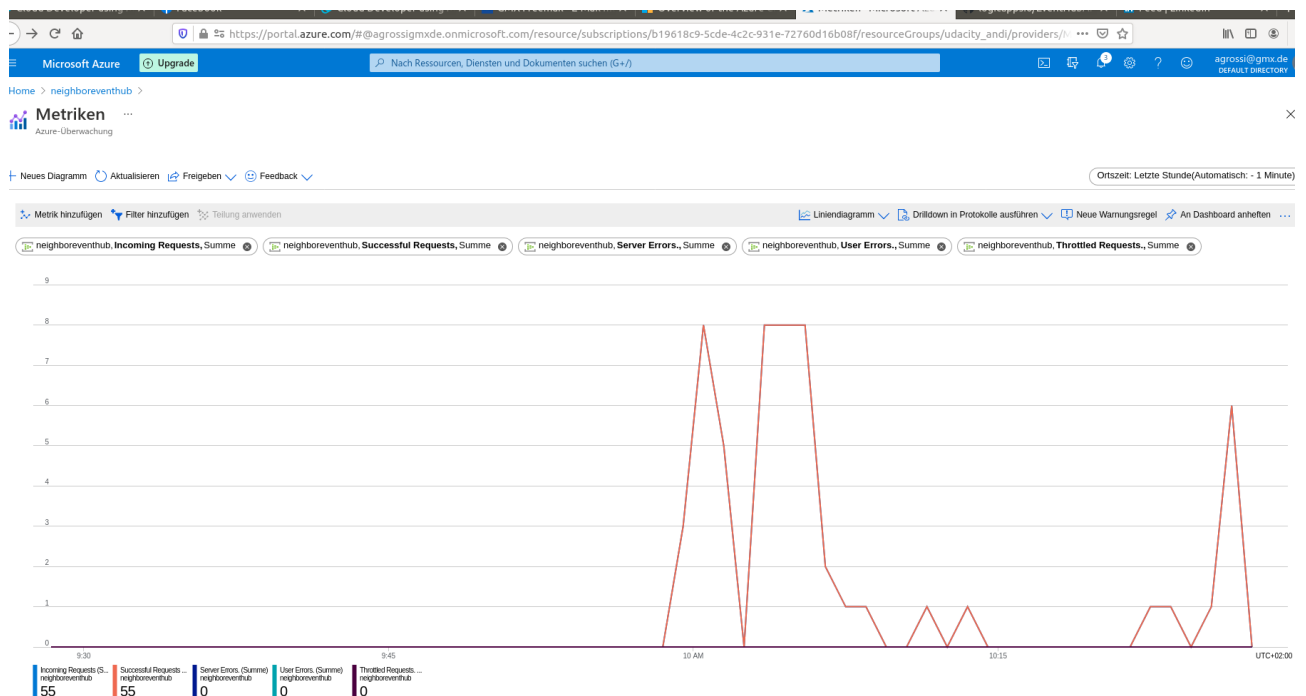


2. Logic Apps & Event Hubs

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

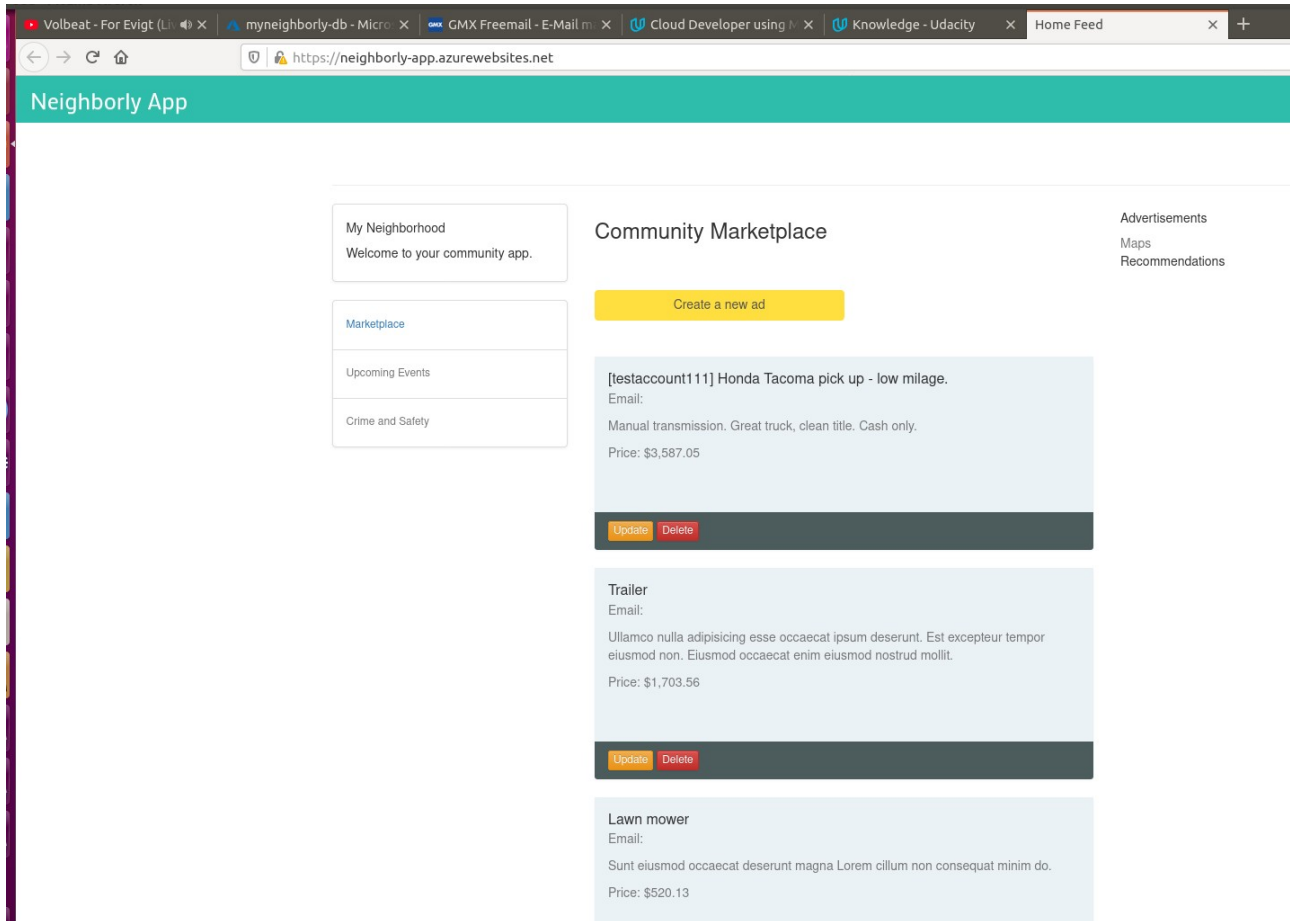


2. Event Hub

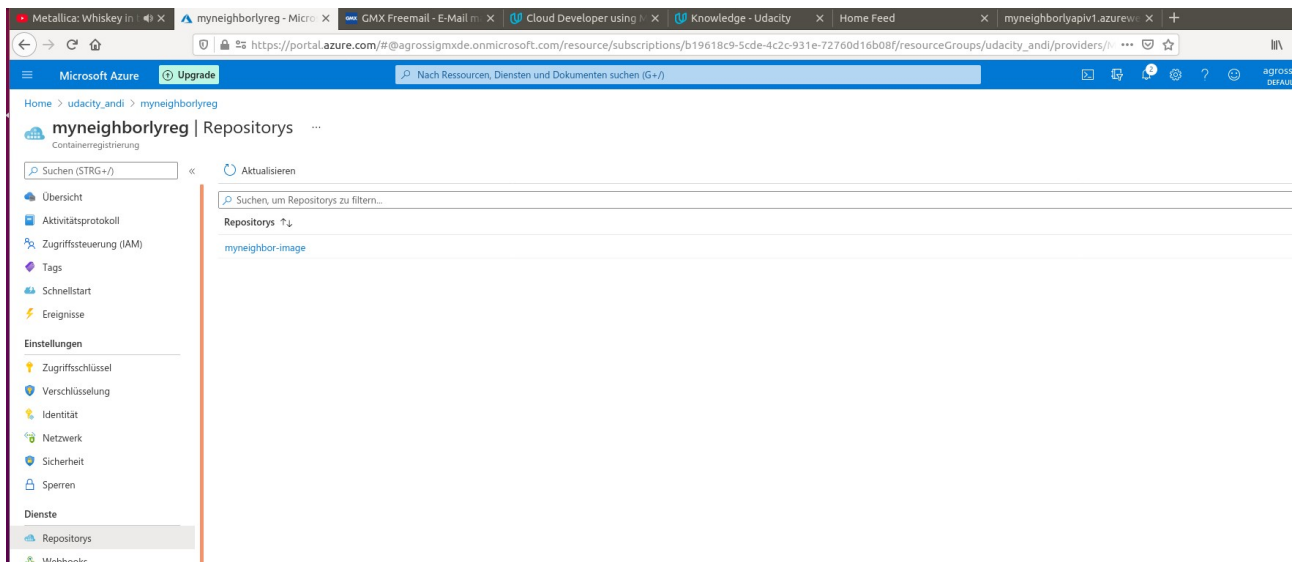


3. Deploying Your Application

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: sha256:0d4claed10c99fd4410f64bbb3c327ca11763df8f2e6f41d865098cc656f184f size: 2846
(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
(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.

```
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
*        andiclustert1       andiclustert1          clusterUser_udacity_andi_andiclustert1
myneighborlyreg  myneighborlyreg     clusterUser_udacity_andi_mynneighborlyreg
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 top navigation bar includes the Microsoft Azure logo and a search bar. The left-hand navigation menu is expanded, showing various categories like 'Übersicht', 'Einstellungen', 'Kostenverwaltung', and 'Überwachung'. The main content area displays the 'Zusammenfassung' (Summary) of the resource group, including subscription details and a list of resources. The resources are listed in a table with columns for Name, Typ, and Standort.

Subscription Details:

- Abonnement (Andern): Free Trial
- Abonnement-ID: b19618c9-5cde-4c2c-931e-72760d16b08f
- Tags (Andern): Klicken Sie hier, um Tags hinzuzufügen.
- Bereitstellungen: 1 Fehler, 43 Erfolgreich
- Standort: Europa, Westen

Resources List:

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