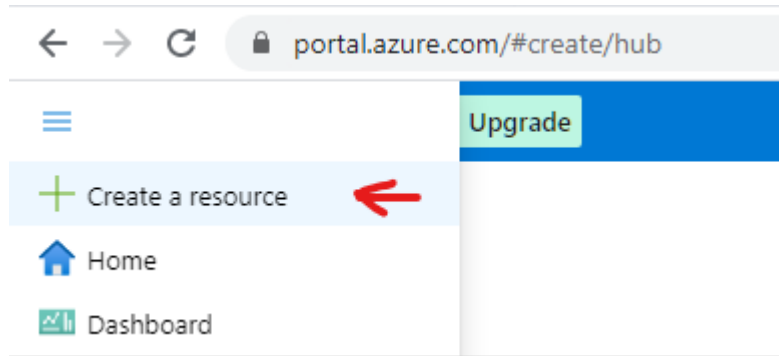


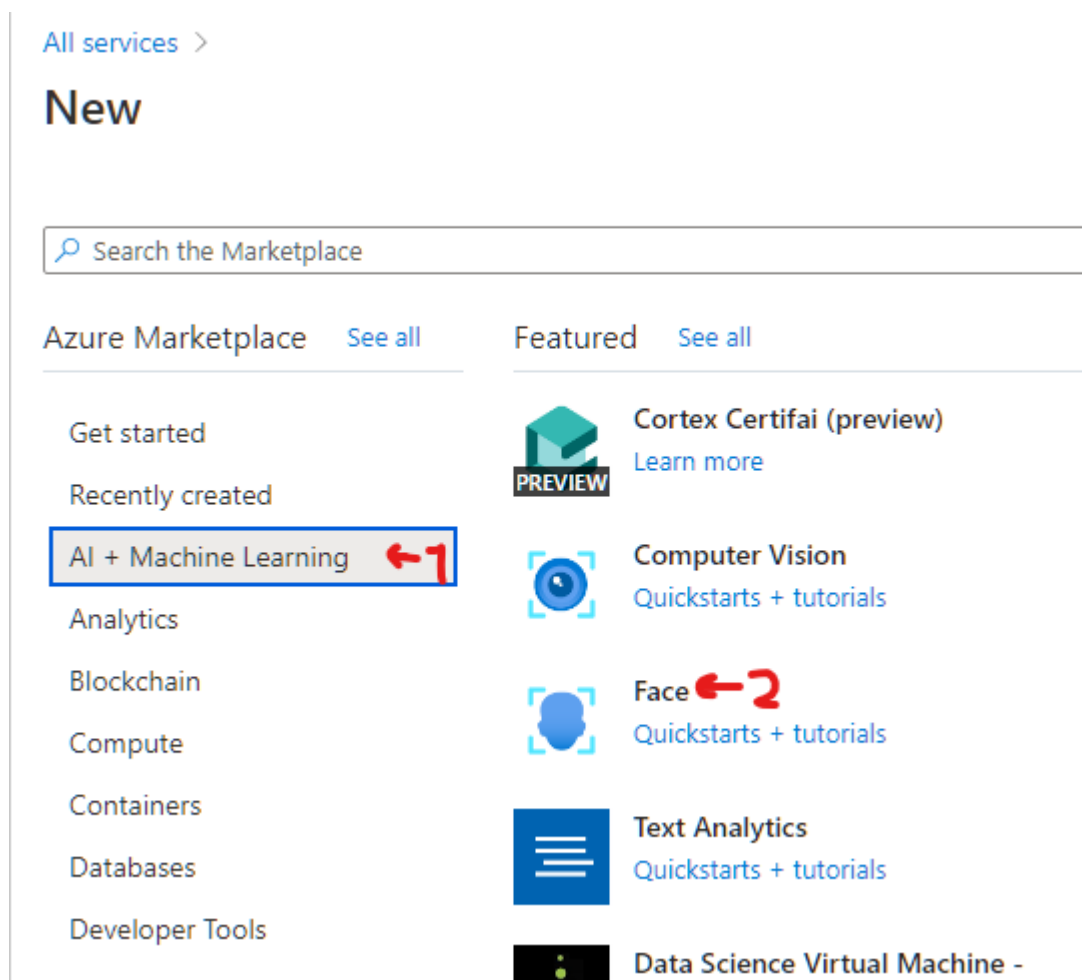
## Opsætning af Azure facial service

1. opret azure bruger
2. opret en "Face" ressource



Figur 1- opretning af ressource

3. opret face service



Figur 2 - opretning af facial service

## Create Face

Basics   Tags   Review + create

Embed facial recognition into your apps for a seamless and highly secured user experience. No machine learning expertise is required. Features include: face detection that perceives faces and attributes in an image; person identification that matches an individual in your private repository of up to 1 million people; emotion recognition that perceives a range of reactions like happiness, contempt, neutrality, and fear; and recognition and grouping of similar faces in images. [Learn more](#)

### Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ

Resource group \* ⓘ **1 →**   
[Create new](#)

### Instance details

Region \* ⓘ **2 →**

Name \* ⓘ **3 →**  ✓

**i** The free tier (F0) for this resource type is already being used by your subscription, therefore it will not appear in the dropdown below.

Pricing tier \* ⓘ **4 →**

[View full pricing details](#)

**5 ↓**

---

[Review + create](#)   [< Previous](#)   [Next : Tags >](#)

Figur 3 - create facial service

Når dette er gjort, er det oprettet en facial service på azure cloud.

Efter dette navigerer over til home og vælg den nylig oprettet service.

## Tilføjelse af reference billede

1. åben en fane med "Keys and Endpoint" og en anden fane med "API Console".

Home > [iot-facial-compare-test](#)

### iot-facial-compare-test | Quick start


Cognitive Services

Search (Ctrl+ /) «

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

#### RESOURCE MANAGEMENT

- Quick start**
- Keys and Endpoint** ←
- Pricing tier
- Networking
- Identity



Explore the Quickstart guidance to get up and running with Face.

# 1

Get the API Key and endpoint to authenticate your applications and All Face calls and docker container activations require a key. The key can be fo

# 2

Try the service in the API console - requires API Key and selecting y  
Use the API Console to quickly try the API without writing code. Be sure to sele  
[API Console](#) ←

Figur 4 - facial service main page

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

#### RESOURCE MANAGEMENT

- Quick start
- Keys and Endpoint** →
- Pricing tier
- Networking
- Identity
- Billing By Subscription
- Properties
- Locks


**These keys are used to access your Cognitive Service API. Do not share your keys. Store them securely– for example, using Azure Key Vault. We also recommend regenerating these keys regularly. Only one key is necessary to make an API call. When regenerating the first key, you can use the second key for continued access to the service.**

**Show Keys**

KEY 1  
.....

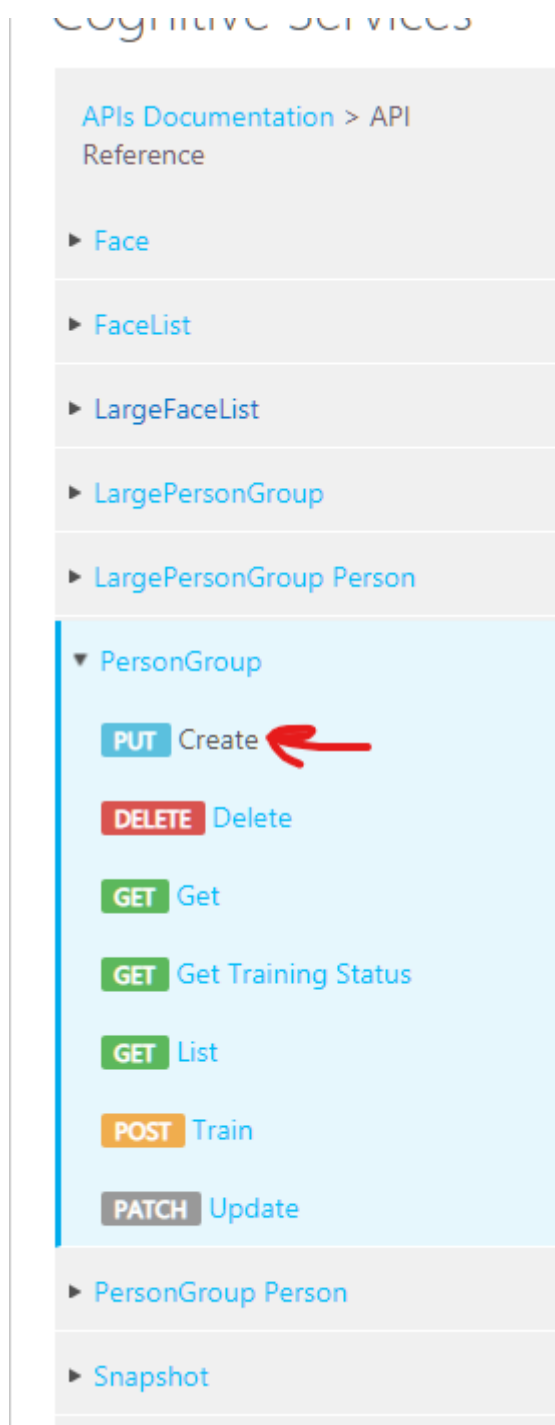
KEY 2  
.....

Endpoint  
→ <https://iot-facial-compare-test.cognitiveservices.azure.com/>

Location   
northeurope

Figur 5 - keys and endpoints

Inde under API, vælg PersonGroup og derefter Create. Vælg den location service er oprettet under, kan ses på Figur 5.



Figur 6- create PersonGroup

1. indsæt ressource navn
2. indsæt personGroupId
3. indsæt nøgle, kan findes under "Keys and Endpoints"
4. tryk send.
5. se Respons status er 200 og gem personGroupId

## Host

Name

[resource name].cognitiveser ▼

Resource Name

iot-facial-compare-test

## Query parameters

personGroupId

1

+ Add parameter

## Headers

Content-Type

application/json

✕ Remove header

Ocp-Apim-Subscription-Key

..... 👁

+ Add header

Figur 7 - opsætning af create personGroup

Send ← 1

Response status

200 OK ←

Response latency

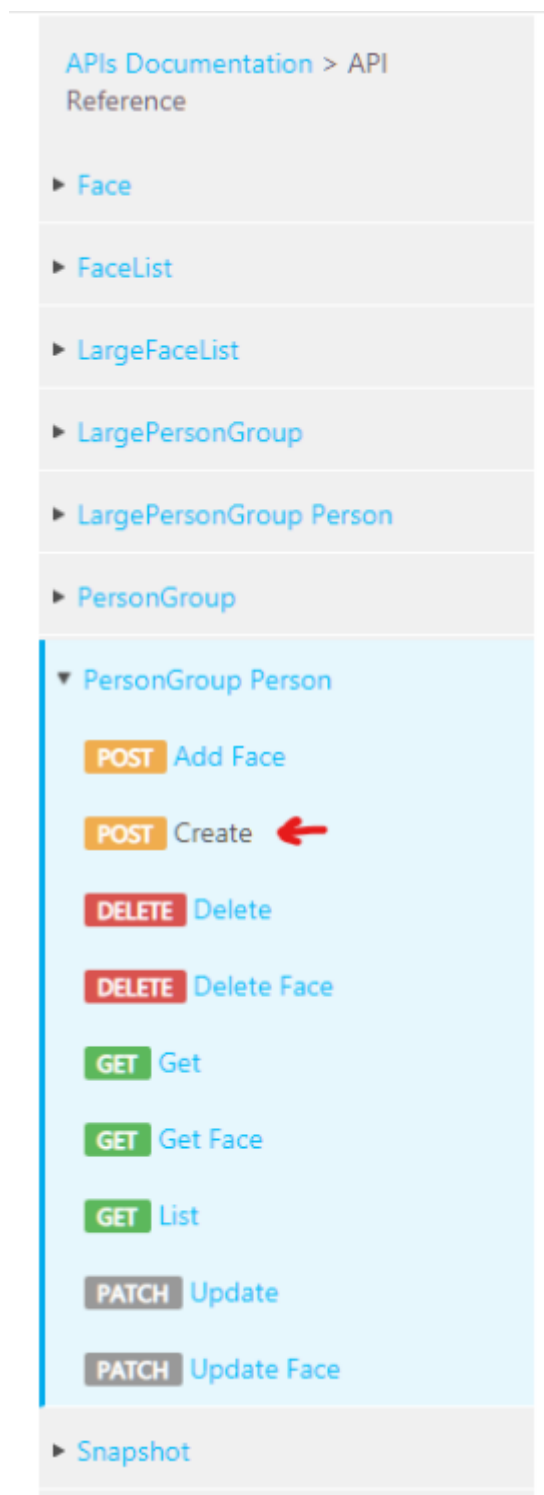
317 ms

Response content

```
x-envoy-upstream-service-time: 215
apim-request-id: ca028a47-1193-4459-baf2-d341d32a3e6b
Strict-Transport-Security: max-age=31536000; includeSubDomains; preload
x-content-type-options: nosniff
CSP-Billing-Usage: CognitiveServices.Face.Transaction=1
Date: Wed, 09 Dec 2020 09:49:39 GMT
Content-Length: 0
```

Figur 8 - personGroup respons

Efter der er lavet en PersonGroup kan der tilføjes en person til gruppen.



Figur 9 - Create personGroup Person

1. indsæt ressource navn
2. indsæt ønsket personGroup
3. indsæt key
4. send.
5. se respons og gem personId. Se Figur 11.

Http Method  
POST

Host

Name

Resource Name

Query parameters

personGroupId

[+ Add parameter](#)

Headers

Content-Type  [X Remove header](#)

Ocp-Apim-Subscription-Key  [+ Add header](#)

Request body

JSON fields in request body:

Fields	Type	Description
name	String	Display name of the target person. The maximum length is 128.
userData (optional)	String	Optional fields for user-provided data attached to a person. Size limit is 16KB.

```

1 {
2   "name": "someName",
3   "userData": "User-provided data attached to the person."
4 }

```

Figur 10 - PersonGroup person parametre

**Send** ← 1

Response status  
200 OK ← 2

Response latency  
260 ms

Response content

```

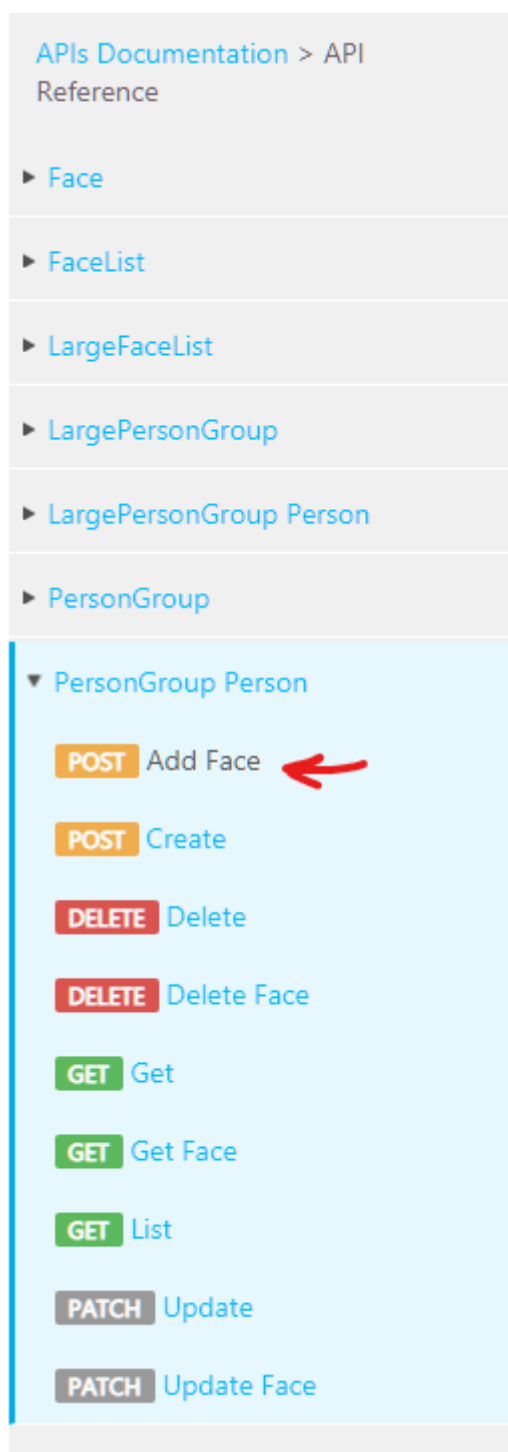
x-envoy-upstream-service-time: 236
apim-request-id: 078d34b0-b19a-4eb7-8ff5-9aeac0965923
Strict-Transport-Security: max-age=31536000; includeSubDomains; preload
x-content-type-options: nosniff
CSP-Billing-Usage: CognitiveServices.Face.Transaction=1
Date: Wed, 09 Dec 2020 09:52:01 GMT
Content-Length: 51
Content-Type: application/json; charset=utf-8

{
  "personId": "92dfbd4e-175b-47a3-89f9-98743deb06c9" ← 3
}

```

Figur 11 - persongroup person respons

Når dette er gjort, kan der tilføjes et ansigt til personen.



figur 12 - Add face to person



1. indsæt ressource navn
2. indsæt personGroupId
3. indsæt Id på personen
4. indsæt nøgle
5. indsæt link til, det ønskede billede af ansigt.
6. tryk send.
7. se respons status er 200.

Name

Resource Name

### Query parameters

personGroupId

personId

detectionModel

[✕ Remove parameter](#)

[+ Add parameter](#)

### Headers

Content-Type

[✕ Remove header](#)

Ocp-Apim-Subscription-Key

[+ Add header](#)

### Request body

JSON fields in request body:

Fields	Type	Description
url	String	Face image URL. Valid image size is from 1KB to 6MB. Only one face is allowed per image.

```

1 {
2   "url": "http://example.com/1.jpg"
3 }

```

Figur 13 - Add face to person parametre



Nu er der tilføjet et ansigt til en person, dette ansigt kan nu sammenlignes med.

For at sammenligne skal der bruges, GroupPersonId og PersonId