

Documentation Facebook and Alexa Integration for EVA

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Facebook Integration

Prerequisites Overview

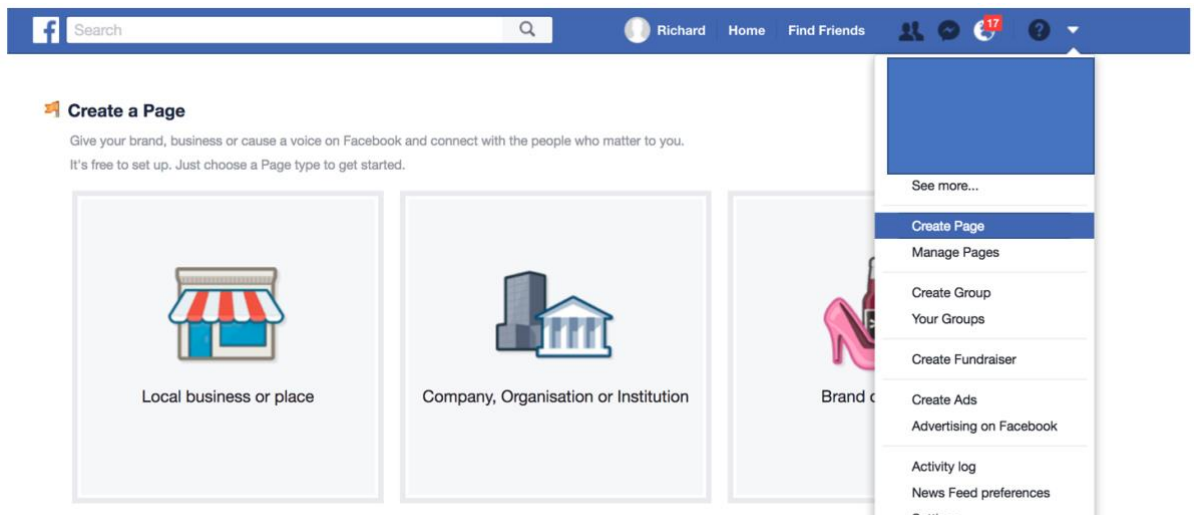
- Facebook (Developer) Account
- Facebook App
- Facebook Feature in EVA
 - Config in DB
 - Add valid client “facebook” in DB
 - Session collection
 - Libraries
 - <https://github.com/remixz/messenger-bot/> (MIT License)
- Facebook Test Page

Reference Architecture

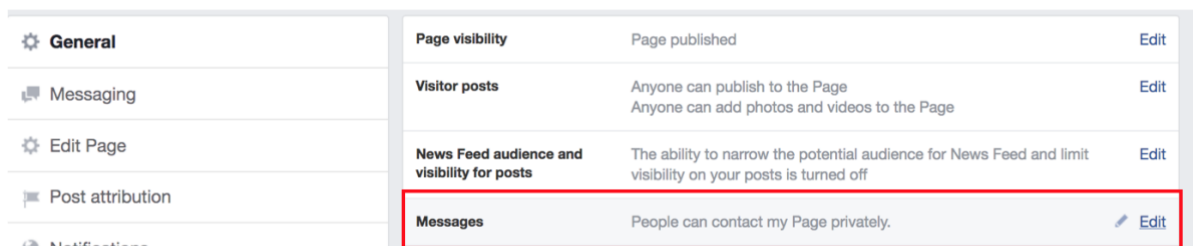
TODO

Configuration on Facebook

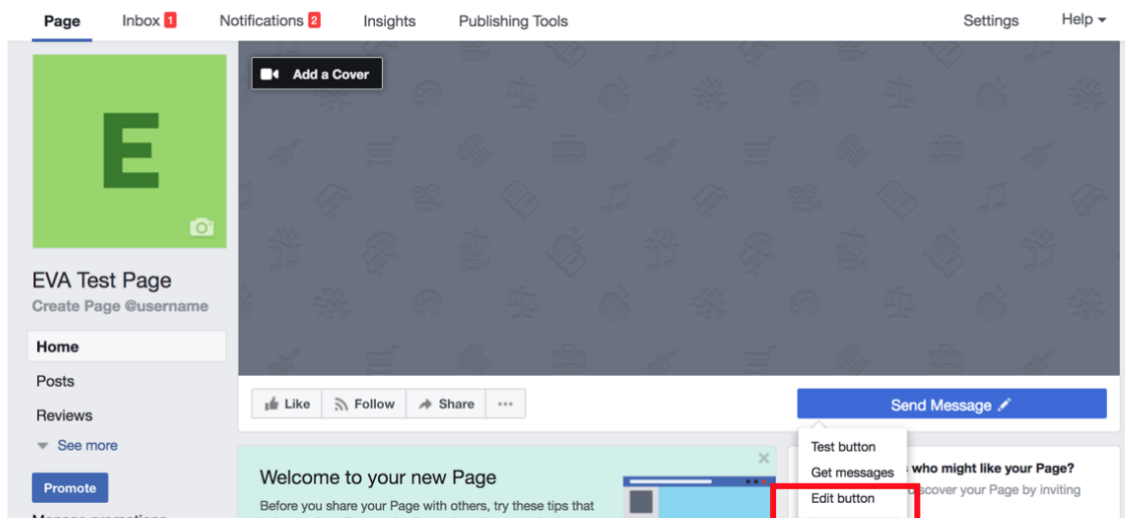
1. Create Facebook Account on <https://www.facebook.com/>
2. Register as Facebook Developer on <https://developers.facebook.com/>
3. Create Facebook Test page



4. Ensure that users can send messages to your page privately

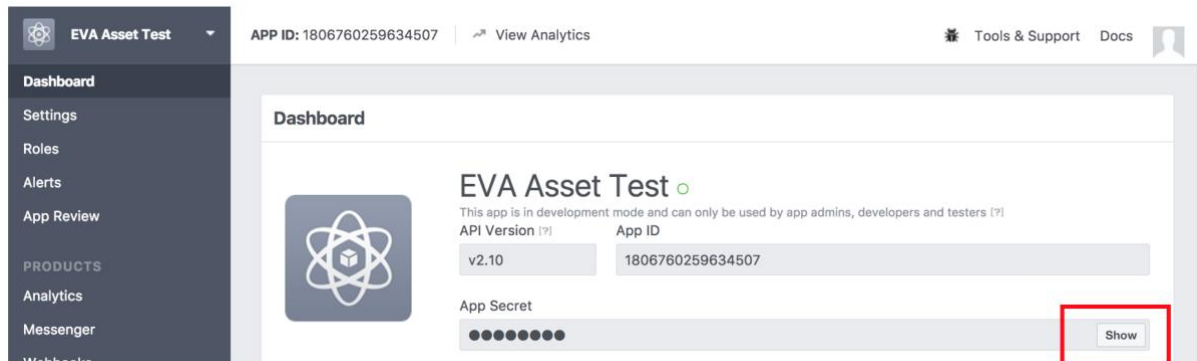


5. Add a “send message” button to your test page

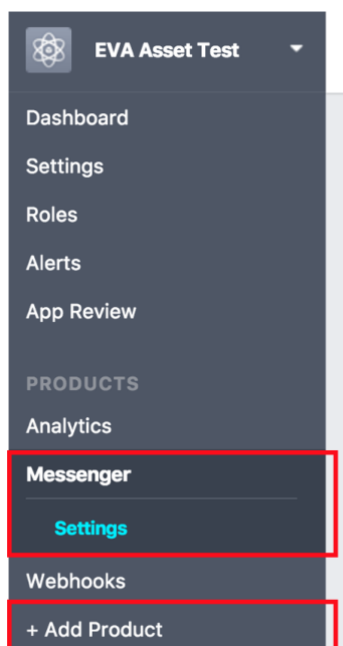


Configuration on Facebook Developer Platform

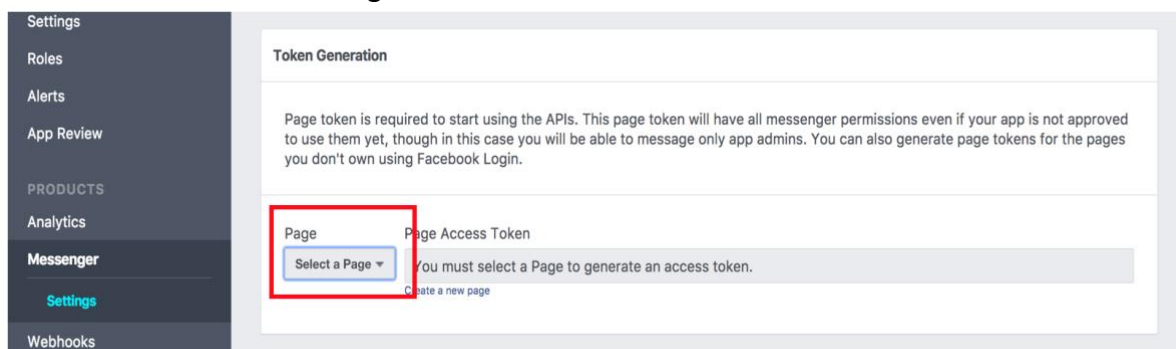
1. Create facebook app on <https://developers.facebook.com/>
2. Remember the app secret as it is matched to the config field “appSecret” in EVA later



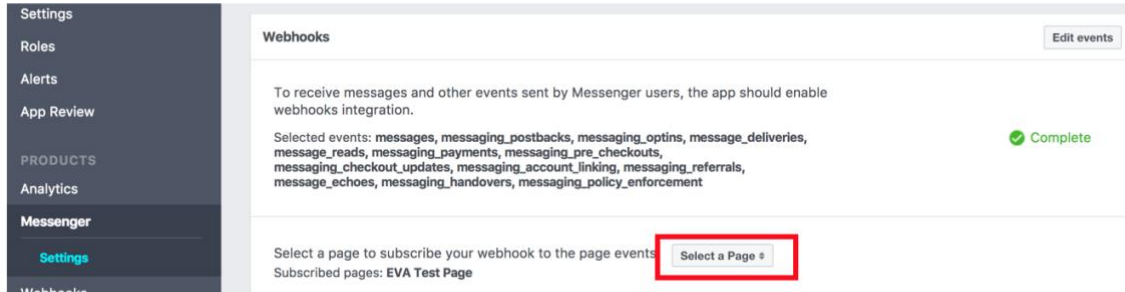
3. Add “messenger” as product to your app



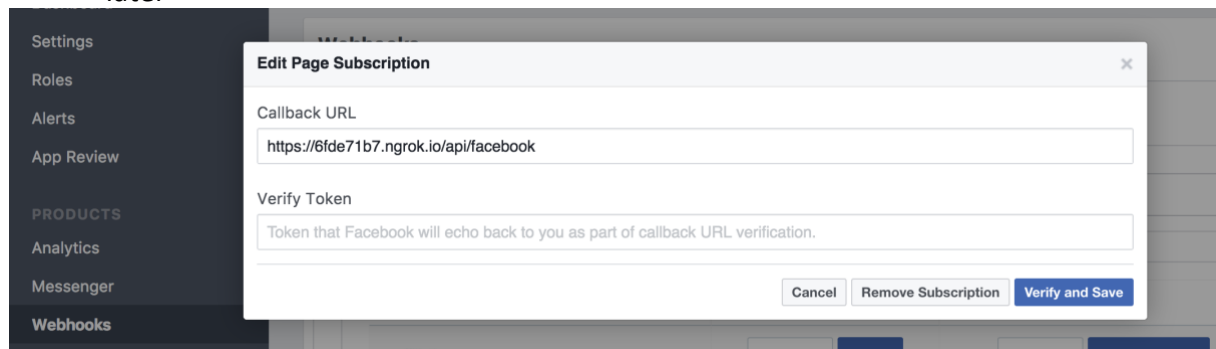
4. Generate Page Token for your prior-created Facebook test page, remember it as it is matched to the config field “token” in EVA later



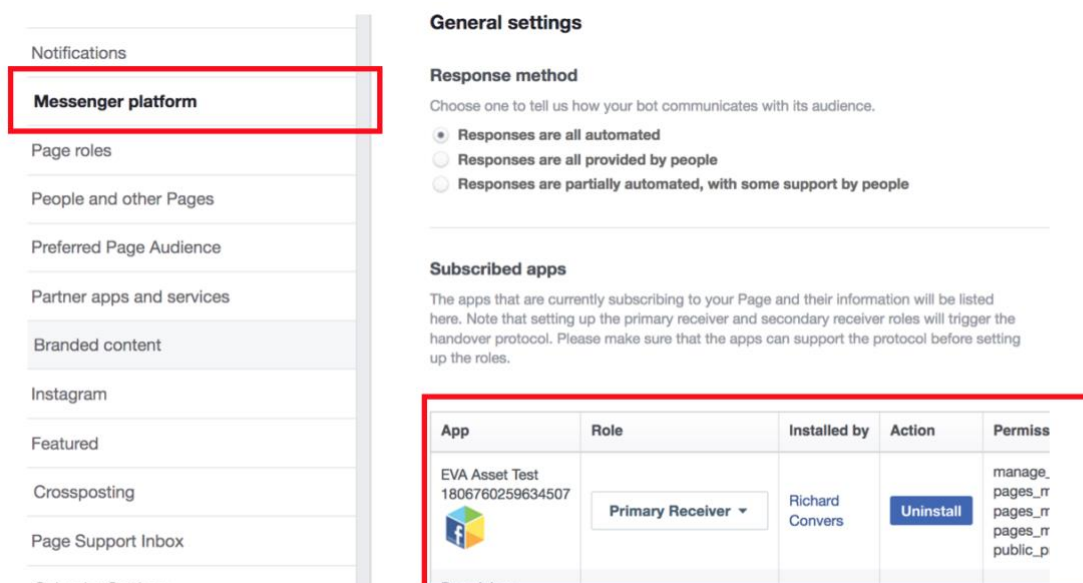
5. Subscribe your app or rather its webhook to messaging events on your facebook test page



6. Add “Webhooks” as product to your app in order to change your webhook endpoint (https required!) and verify token, e.g. use ngrok to test your local EVA installation here. Remember the verify token as it is matched to the config field “verify” in EVA later



7. Ensure that your app is subscribed to your page under your facebook page settings:













Configuration in EVA

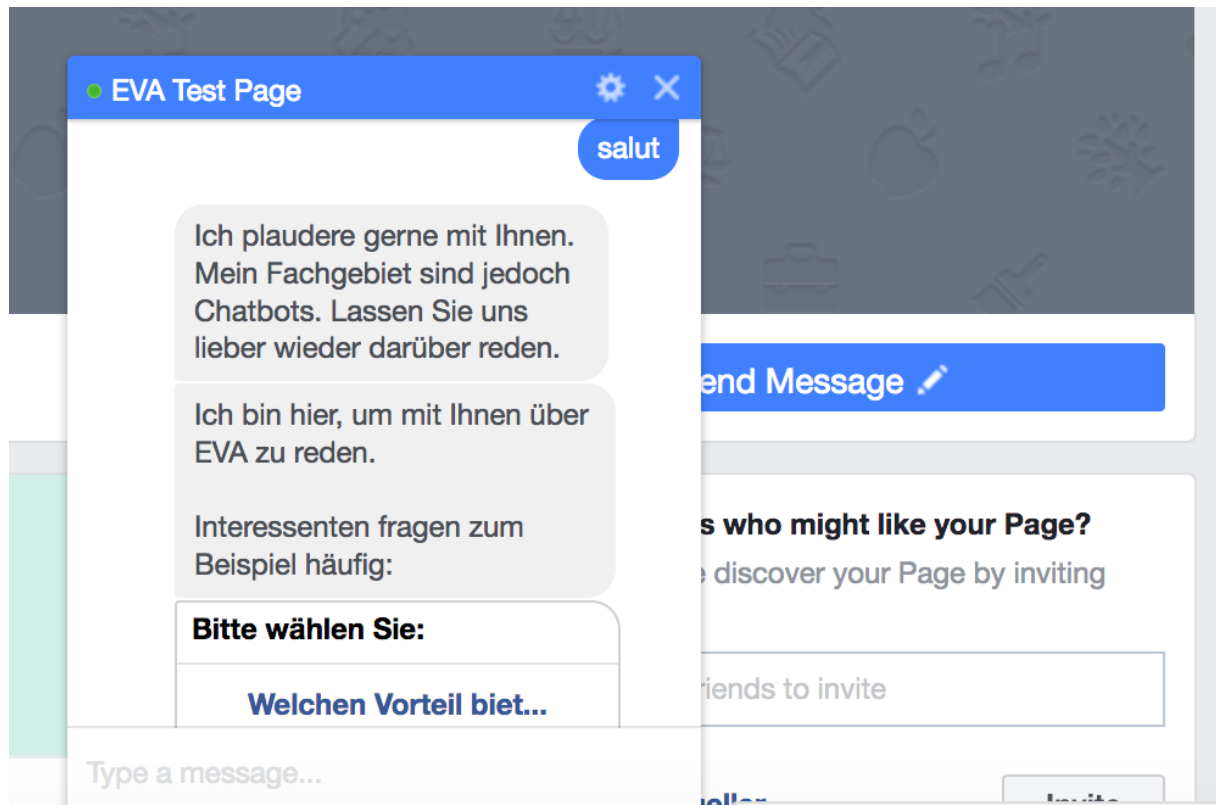
1. Create collection in your DB with name “sessions_facebook”
2. Create a new config in your DB with the following fields as shown in the sample below:

 token	EAAZArPSd4	String
 id	facebook	String
 verify	watsonEva	String
 appSecret	219aa729661	String
 defaultMessage	Leider kann ic	String
 defaultMessage	Bitte wählen \$	String

3. Add new client with id “facebook” to the “clients” collection in your DB

 business_answers_db	answers_business_asset	String
 business_workspace	ccab5d57-ef9a-49db-af52-11e595e165c6	String
 chitchat_answers_db	answers_chitchat_asset	String
 chitchat_workspace	5706b06f-eb80-4346-8320-29add844699b	String
 hidden	true	Bool
 id	facebook	String
 language	de	String
 name	Facebook	String
 welcomeMessage	welcome_01	String
 welcomeMessageFromConfig	false	Bool

4. Start the backend – use e.g. ngrok to test your installation locally. In order to that don't forget to adjust your webhook setting with the correct endpoint in your facebook app settings as shown before.
5. Go to your facebook test page and test your installation:



Publish Your App

TODO

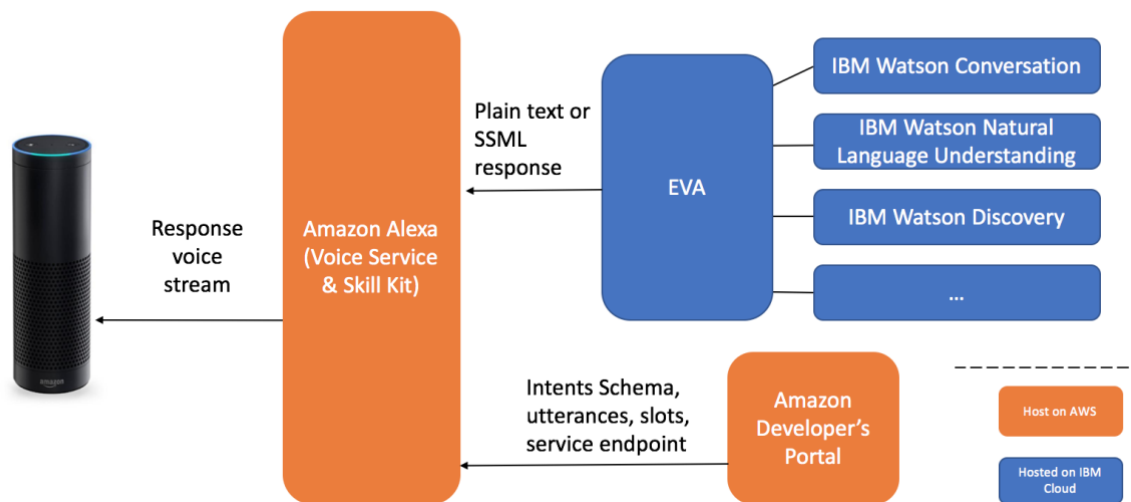
Alexa Integration

Prerequisites Overview

- Amazon Developer Account
- Alexa Custom Skill on Amazon Alexa platform
 - Invocation Name
 - Intent Schema, Slots, Utterances
 - Service Configuration
- Alexa Feature in EVA
 - Config in DB
 - Add valid client "alexa" in DB
 - Session collection
 - Libraries (recommend if you're using Amazon Lambda, not required for now)
 - <https://github.com/SamVerschueren/aws-lambda-mock-context> (MIT License)

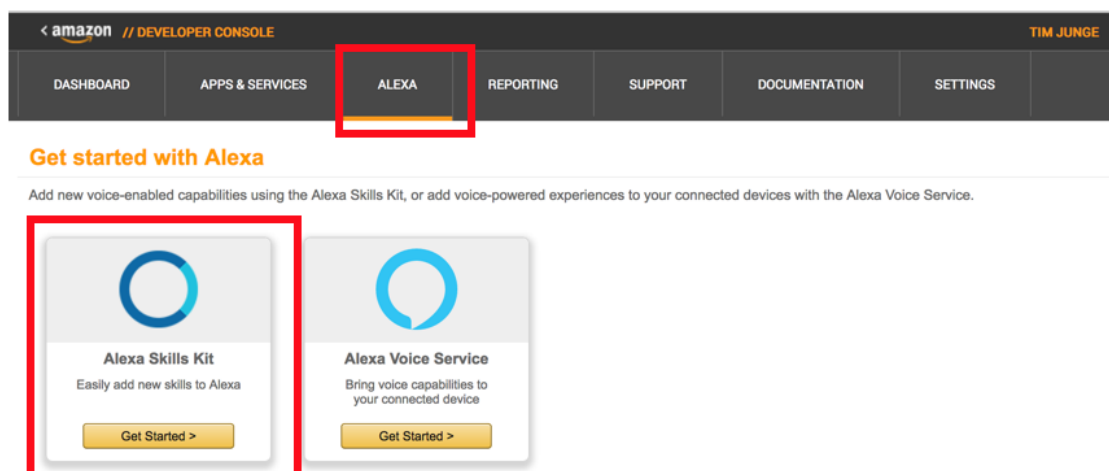
- <https://github.com/alexa/alexa-skills-kit-sdk-for-nodejs> (Apache 2.0 License)
- Testing with device (recommended)
 - Amazon Echo
 - Alexa App on iOS or Android

Reference Architecture

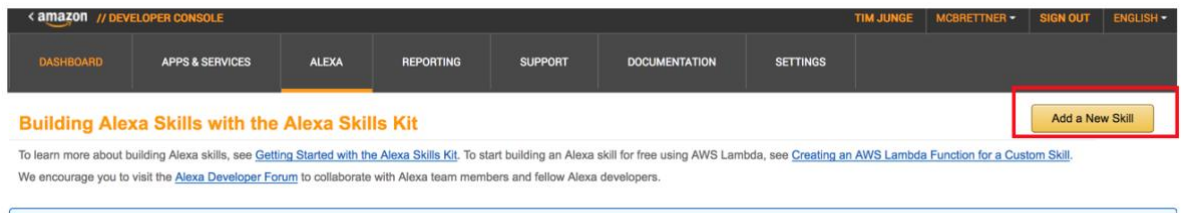


Configuration on Amazon Developer platform

1. Create Amazon Developer Account on <https://developer.amazon.com>
2. Got to Alexa Skills Kit



3. Add a new Alexa Custom Skill



4. Add required skill information: language, name, invocation name that used to by alexa to identify your skill. Remember the generated skill ID as it is matched to the config field "applicationID" in EVA later

This screenshot shows the 'Talk to EVA' skill configuration page. On the left, there's a sidebar with tabs for Skill Information, Interaction Model, Configuration, SSL Certificate, Test, Publishing Information, and Privacy & Compliance. The main area shows the 'Skill Information' tab selected. It includes fields for Language (German), Application Id (amzn1.ask.skill.f08f93d5-5bc7-4500-a967-8042119ed1a2), Name (Talk to EVA), and Invocation Name (eva). The 'Application Id' field is highlighted with a red box.

5. Define the interaction model as shown below:

This screenshot shows the 'Intent Schema' configuration page. On the left, there's a sidebar with tabs for Test, Publishing Information, and Privacy & Compliance. The main area shows the 'Intent Schema' tab selected. It includes a text area for the JSON schema, a table for Custom Slot Types, and a section for Sample Utterances. The JSON schema is as follows:

```

1 {
2   "intents": [
3     {
4       "slots": [
5         {
6           "name": "EverythingSlot",
7           "type": "BAG_OF_WORDS"
8         }
9       ],
10      "intent": "EverythingIntent"
11    }
12  ]

```

The 'Custom Slot Types' table shows a single entry for 'BAG_OF_WORDS' with the value 'Hello World'. The 'Sample Utterances' section shows a single entry for 'EverythingIntent' with the value '{EverythingSlot}'.

6. Configure your service endpoint that is your EVA installation. Use e.g. ngrok to test your local installation, https required

Skill Information

Interaction Model

Configuration

SSL Certificate

Test

Publishing Information

Privacy & Compliance

Skills Beta Testing NEW

Status Not yet eligible

Global Fields

These fields apply to all languages supported by the skill.

Endpoint

Service Endpoint Type:

☐ AWS Lambda ARN (Amazon Resource Name) Recommended
 AWS Lambda is a server-less compute service that runs your code in response to events and automatically manages the underlying compute resources for you.
[More info about AWS Lambda](#)
[How to integrate AWS Lambda with Alexa](#)

☒ HTTPS

Default

https://6fde71b7.ngrok.io/api/alexa

Provide geographical region endpoints? (Optional)

☐ Yes
 ☒ No

7. Check your ssl certificate for your endpoint as shown below

German

Add a New Language

Skill Information

Interaction Model

Configuration

SSL Certificate

Test

Publishing Information

Privacy & Compliance

Global Fields

These fields apply to all languages supported by the skill.

To protect your security and the security of end users, we require that you use a certificate while developing an Alexa skill. For more information, see [Registering and Managing Alexa Skills - About SSL Options](#).

Certificate for DEFAULT Endpoint:

Please select one of the three methods below for the web service:

☐ My development endpoint has a certificate from a trusted certificate authority
 ☒ My development endpoint is a sub-domain of a domain that has a wildcard certificate from a certificate authority
 ☐ I will upload a self-signed certificate in X.509 format. [Learn how to create a self signed certificate.](#)

8. Enable your skill to be tested by your account

SSL Certificate

Test

Publishing Information

Privacy & Compliance

Skills Beta Testing NEW

Status Not yet eligible

On March 1, 2018 - Test Simulator (beta) will replace the test enablement function and all simulator content on this page.

Please complete the Interaction Model tab to start testing this skill.

☒ **Enabled** This skill is enabled for testing on your account.

Once you have completed testing on your device, please complete the Description and Publishing Information tab, then submit the skill for certification.

If it passes Amazon's testing and certification process, it will become available to Alexa end users.











The skill is available in "Skills > Your Skills" page of the Alexa App when you select "Yes" above. You can then enable the skill and test its functionality on your device by asking Alexa, **frage eva**

Configuration in EVA

1. Create collection in your DB with name “sessions_alexa”
2. Create a new config in your DB with the following fields as shown in the sample below:

 id	alexa	String
 applicationID	f08f93d5-5bc	String
 defaultMessage	Leider ist etw	String
 defaultButtonMessage	Ich biete Ihne	String

3. Add new client with id “alexa” to the “clients” collection in your DB

 business_answers_db	answers_business_asset	String
 business_workspace	ccab5d57-ef9a-49db-af52-11e595e165c6	String
 chitchat_answers_db	answers_chitchat_asset	String
 chitchat_workspace	5706b06f-eb80-4346-8320-29add844699b	String
 hidden	true	Bool
 id	alexa	String
 language	de	String
 name	Alexa	String
 welcomeMessage	welcome_01	String
 welcomeMessageFromConfig	false	Bool

4. Start your EVA backend – use e.g. ngrok to test your installation locally. In order to that don't forget to check your service endpoint settings with the correct endpoint in your alexa skill settings as shown before.
5. Go to your alexa test interface and use the service simulator to test your installation:

Service Simulator

Use Service Simulator to test your HTTPS endpoint: <https://c04ff64a.ngrok.io/api/alexa>

Note: Service Simulator does not currently support testing audio player directives, dialog model, customer permissions and customer account linking. Text mode does not support launch intents and single interaction phrases.

Text

JSON

Enter Utterance

hi|

Ask Talk to EVA

Reset

Service Request

```
1 {
2   "session": {
3     "new": true,
4     "sessionId": "SessionId.44814b62-a707-4478-
5     "application": {
6       "applicationId": "amzn1.ask.skill.f08f93d
7     },
8     "attributes": {},
9     "user": {
10      "userId": "amzn1.ask.account.AFZZBYGLCPFT
11    }
12  },
13  "request": {
14    "type": "IntentRequest",
15    "requestId": "EdwRequestId.9abb3977-f633-42
16    "intent": {
17      "name": "EverythingIntent",
18      "slots": {
```

Service Response

```
1 {
2   "version": "1.0",
3   "response": {
4     "outputSpeech": {
5       "ssml": "<speak>Alle Systeme sind voll
6       "type": "SSML"
7     },
8     "speechletResponse": {
9       "outputSpeech": {
10        "ssml": "<speak>Alle Systeme sind vol
11      },
12      "shouldEndSession": false
13    }
14  },
15  "sessionAttributes": {}
16 }
```

Listen

Press "Listen" if you want to check how alexa would pronounce your response.

Configuration on Alexa

TODO details

1. Download Alexa App on iOS or Android
2. Log in with your amazon developer account
3. Find and configure your Alexa (echo) device, at least with a valid wifi connection
4. Activate your prior-created custom skill
5. Say "Alexa - Ask invocation name> <your question>

Publish Your App

TODO