

# AWS Polly

This is a manual how to run [RT-Voice](#) with AWS Polly.

AWS Polly supports more than 20 different languages with over 60 voices.

For more, see <https://aws.amazon.com/polly/>

**crosstales LLC** creates assets to help you realize great solutions in **Unity**:

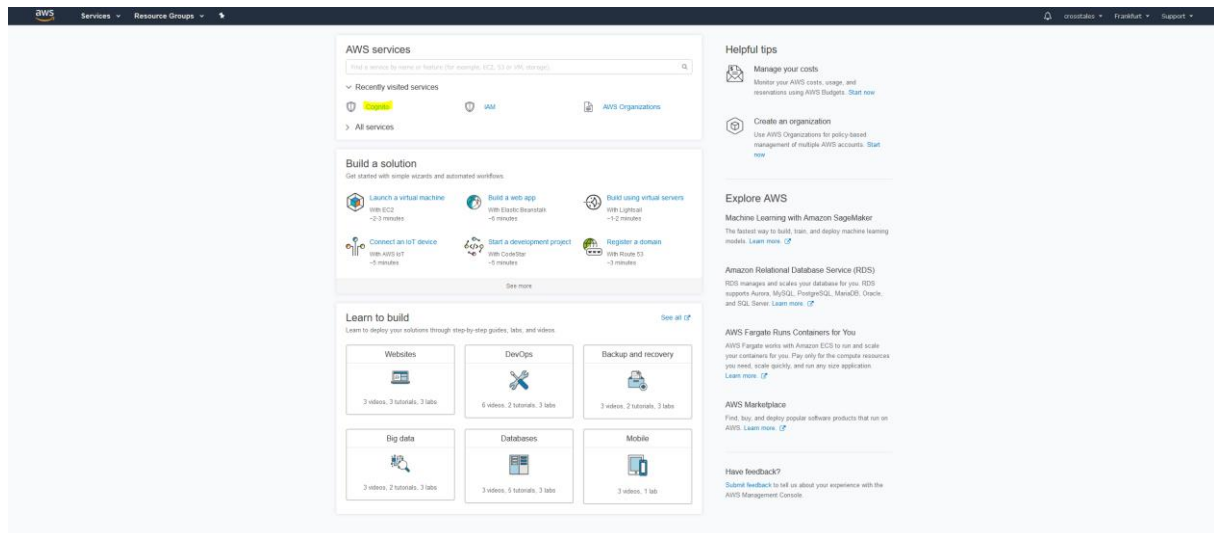
[Visit us at the Unity AssetStore](#)

## Setup Cognito Credentials

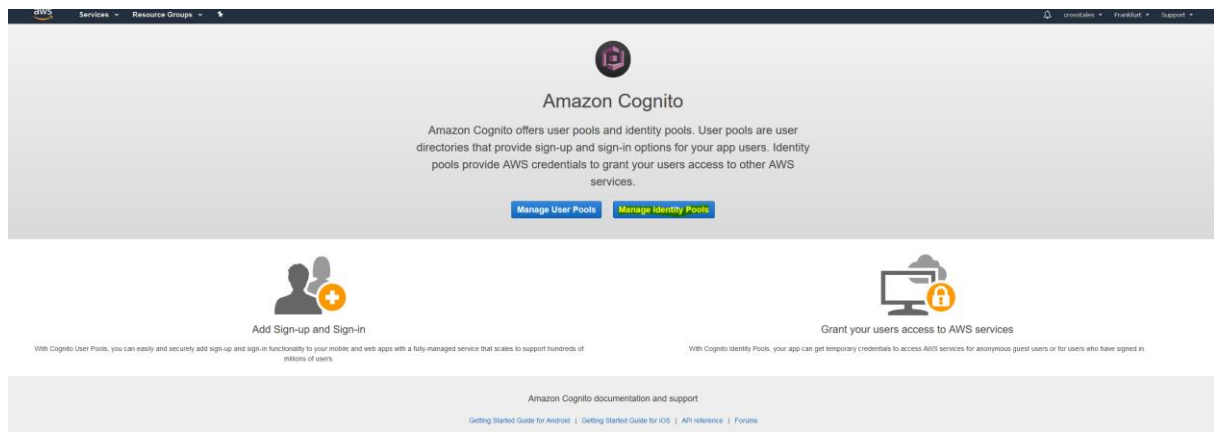
Create an AWS account or sign-in.

<https://docs.aws.amazon.com/cognito/latest/developerguide/getting-started-with-identity-pools.html>

Afterwards click on "Cognito":



Click on "Manage Identity Pools"



## Create a new identity pool:

The screenshot shows the AWS IAM console interface for creating a new identity pool. The main content area displays a line graph titled 'test\_policy' with the text 'Identities 4 | Change 33.3%'. The sidebar on the right contains links for 'Getting started' (Developer Guide, Getting started with Android, Getting started with iOS, Identity API reference), 'In-Depth Guides' (Using Cognito in Your Website, Using the Cognito Credentials Provider), and 'Community' (Cognito Developer Forum, AWS Mobile Blog, GitHub Repository).

## Give the pool a name and create it:

The screenshot shows the 'Getting started wizard' in the AWS IAM console. It is at 'Step 1: Create identity pool'. The main content area is titled 'Create new identity pool' and includes a text box for 'Identity pool name' with the value 'my\_test'. Below this, there is a section for 'Unauthenticated identities' with a checkbox labeled 'Enable access to unauthenticated identities' which is checked. At the bottom right, there are 'Cancel' and 'Create Pool' buttons.

Important: "Enable access to unauthenticated identities" must be set

## Edit the identity pool:

The screenshot shows the 'Identity pool' dashboard in the AWS IAM console. The left sidebar has links for 'Identity pool', 'Dashboard', 'Sample code', and 'Identity browser'. The main content area shows 'Identities this month' as 3 and 'Total identities' as 3. A line graph shows the growth of identities over time, with a peak on Mar 03. The 'Authentication methods' section shows 'Unauthenticated' as 100.0% with 3 identities. The 'Resources' section includes links for 'Getting started with Amazon Cognito', 'Learn about the AWS Mobile SDKs', and 'Connect with the community'.

aws

Services

Resource Groups

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crosstales

Frankfurt

Support

Federated Identities

test\_polly

Identity pool

Dashboard

Sample code

Identity browser

## Edit identity pool

From this page you can modify the details of your identity pool. An identity pool must have a unique name and a set of authenticated and unauthenticated roles. The roles are saved with your identity pool and whenever we receive a request to authorize a user we will automatically utilize the roles you specify here. You will be required to specify the identity pool id from this page when initializing the Amazon Cognito client SDK. [Learn more about using IAM roles with Amazon Cognito.](#)

Identity pool name\*

test\_polly

Identity pool ID ⓘ

[REDACTED]

(Show ARN)

Unauthenticated role ⓘ

Select a role...

Create new role

Authenticated role ⓘ

Cognito\_test\_pollyAuth\_Role

Create new role

▼ Unauthenticated identities ⓘ

Amazon Cognito can support unauthenticated identities by providing a unique identifier and AWS credentials for users who do not authenticate with an identity provider. If your application allows customers to use the application without logging in, you can enable access for unauthenticated identities. [Learn more about unauthenticated identities.](#)

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Enable access to unauthenticated identities

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Global

Support

Your Cognito Identities require access to your resources

Assigning a role to your application end users helps you restrict access to your AWS resources. Amazon Cognito integrates with Identity and Access Management (IAM) and lets you select specific roles for both your authenticated and unauthenticated identities. [Learn more about IAM.](#)

By default, Amazon Cognito creates a new role with limited permissions - end users only have access to Cognito Sync and Mobile Analytics. You can modify the roles if your application needs access to other AWS resources, such as S3 or DynamoDB.

▼ Hide Details

Role Summary

Role Description

Your unauthenticated identities would like access to Cognito.

IAM Role

Create a new IAM Role

Role Name

Cognito\_test\_pollyUnauth\_RoleAccess

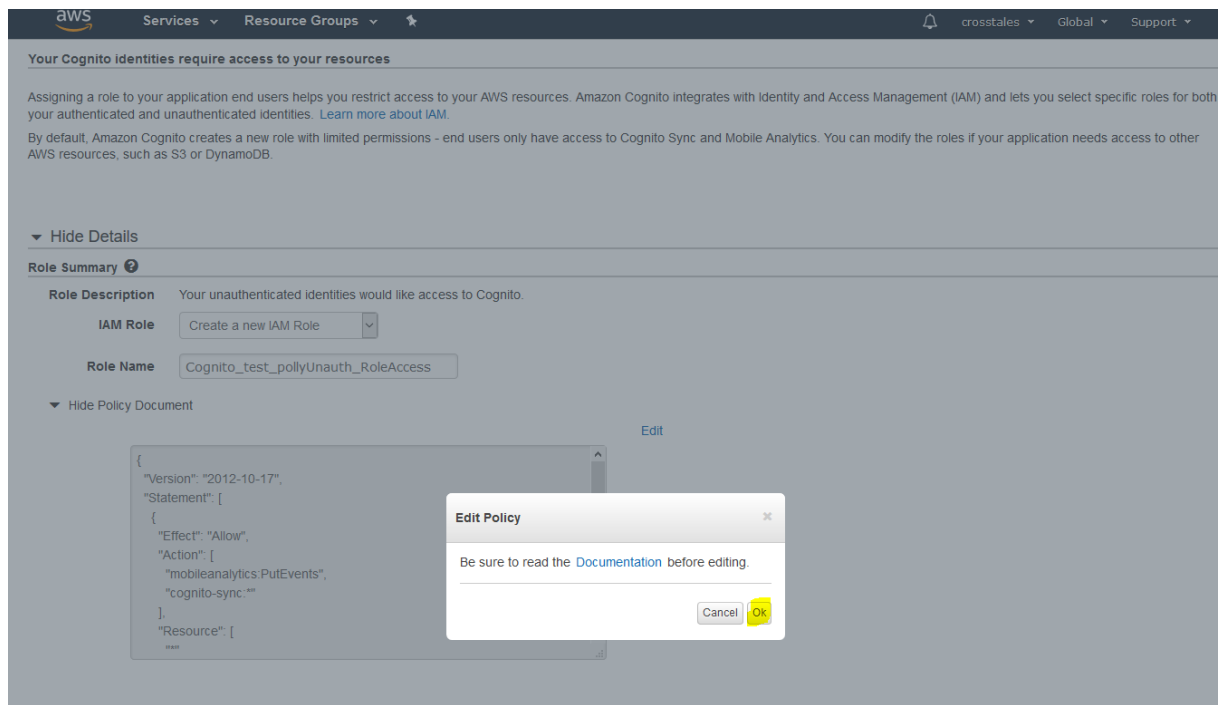
▼ Hide Policy Document

Edit

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "mobileanalytics.PutEvents",
        "cognito-sync:"
      ],
      "Resource": [

```


## Create a new role



Add this policy-code:

```
{
  "Version": "2012-10-17",
  "Statement": [{
    "Sid": "AllowAllPollyActions",
    "Effect": "Allow",
    "Action": [
      "polly:*"
    ],
    "Resource": "*"
  }]
}
```

## Verify and allow:


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**Your Cognito identities require access to your resources**

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▼ Hide Details

**Role Summary** ⓘ

**Role Description** Your unauthenticated identities would like access to Cognito.

**IAM Role** Create a new IAM Role ▾

**Role Name** Cognito\_test\_pollyUnauth\_RoleAccess


▼ Hide Policy Document [Edit](#)

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowAllPollyActions",
      "Effect": "Allow",
      "Action": [
        "polly:*"
      ],
      "Resource": "*"
    }
  ]
}
  
```

Cancel **Allow**

## Save changes and copy the "Identity pool ID"


 Services ▾ Resource Groups ▾

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**Federated Identities** test\_polly ▾

Identity pool  
 Dashboard  
 Sample code  
 Identity browser

### Edit identity pool

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**Identity pool name\*** test\_polly

**Identity pool ID ⓘ** [REDACTED] [Show ARN](#)

**Unauthenticated role ⓘ** Cognito\_test\_pollyUnauth\_RoleAccess ▾ [Create new role](#)

**Authenticated role ⓘ** Cognito\_test\_pollyAuth\_Role ▾ [Create new role](#)

- ▶ Unauthenticated identities ⓘ
- ▶ Authentication providers ⓘ
- ▶ Push synchronization
- ▶ Cognito Streams
- ▶ Cognito Events
- ▶ Delete identity pool

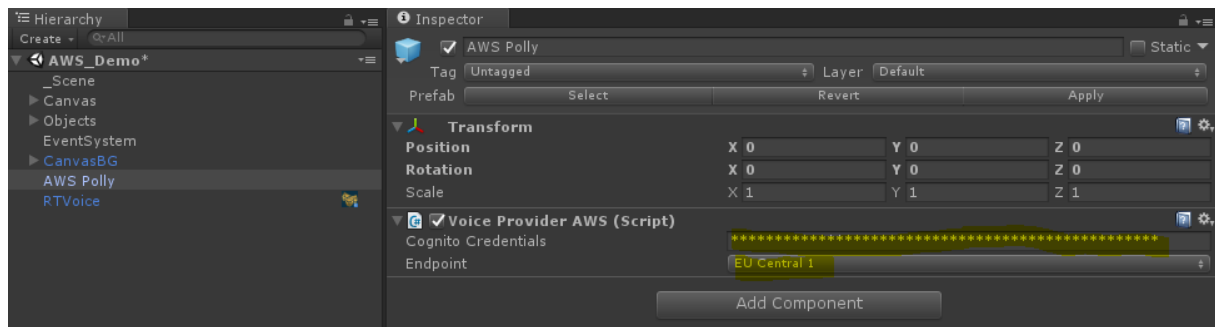
\* Required

Cancel **Save Changes**

Go to your Unity project and extract "AWS Polly.unitypackage" under "Assets/Plugins/crosstales/RTVoice/3rd party".

Open the demo "AWS\_Demo" and go to the "AWS Polly"-object in the hierarchy.

Add your ID into "Cognito Credentials" and choose the endpoint:



Hit play in Unity and enjoy RT-Voice and AWS Polly.