

# 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**:

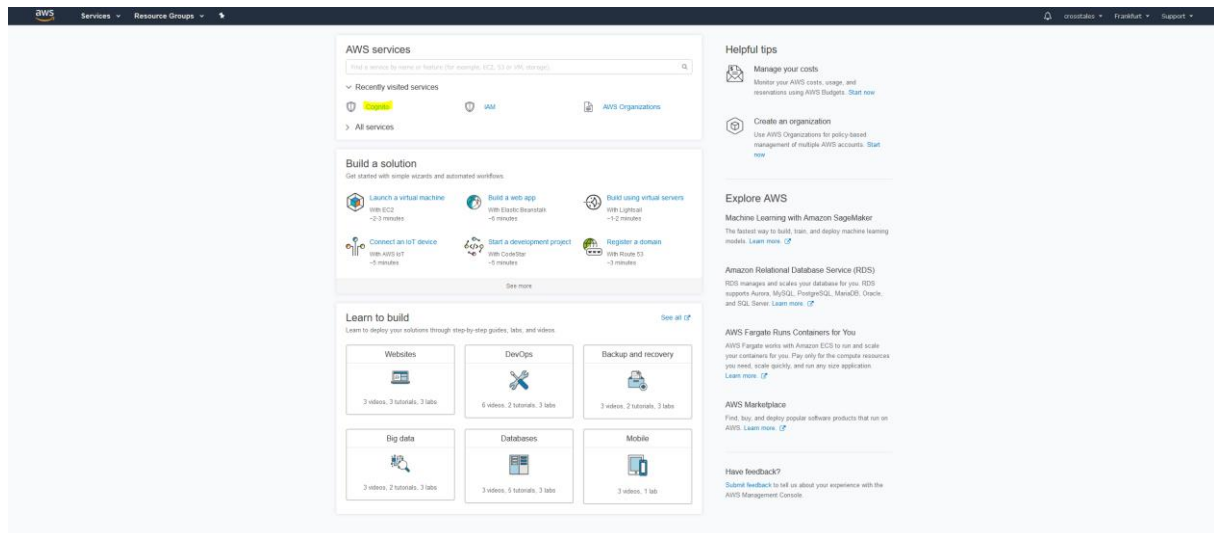
[Visit us at the Unity AssetStore](#)

## Setup Cognito Credentials

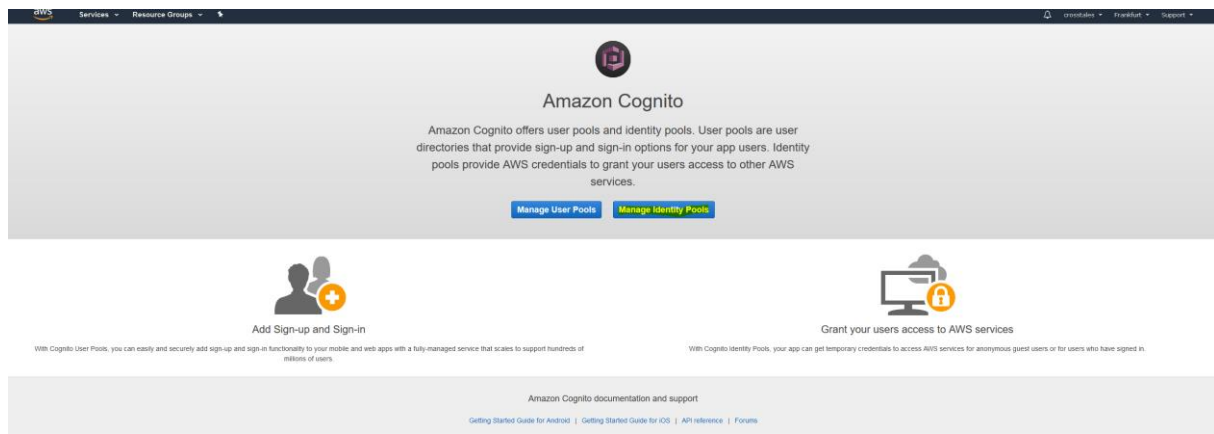
Create an AWS account or sign-in.

<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 a specific identity pool named 'test\_policy'. The main area features a line graph titled 'Identities 4 | Change 33.3%'. The sidebar on the right contains several sections: 'Getting started' with links to Developer Guide, Getting started with Android, Getting started with iOS, and Identity API reference; 'In-Depth Guides' with links to Using Cognito in Your Website and Using the Cognito Credentials Provider; and 'Community' with links to Cognito Developer Forum, AWS Mobile Blog, and GitHub Repository.

## Give the pool a name and create it:

This screenshot captures the 'Getting started wizard' in the AWS IAM console for creating a new identity pool. It is at 'Step 1: Create identity pool'. The wizard prompts the user to 'Create new identity pool' and provides instructions on naming the pool. It also includes a section for 'Unauthenticated identities' with a checkbox to 'Enable access to unauthenticated identities'. The 'Create Pool' button is visible at the bottom right.

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

## Edit the identity pool:

The screenshot displays the 'Identity pool' dashboard for 'test\_policy'. The left sidebar shows navigation options: '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 'Total identities' over time, starting from February 18th and rising to 3 by March 3rd. A 'Resources' section at the bottom provides links to 'Getting started with Amazon Cognito', 'Learn about the AWS Mobile SDKs', and 'Connect with the community'.

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.](#)

☒ Enable access to unauthenticated identities

aws

Services

Resource Groups

🔍

🔔

crosstales

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\_policyUnauth\_RoleAccess

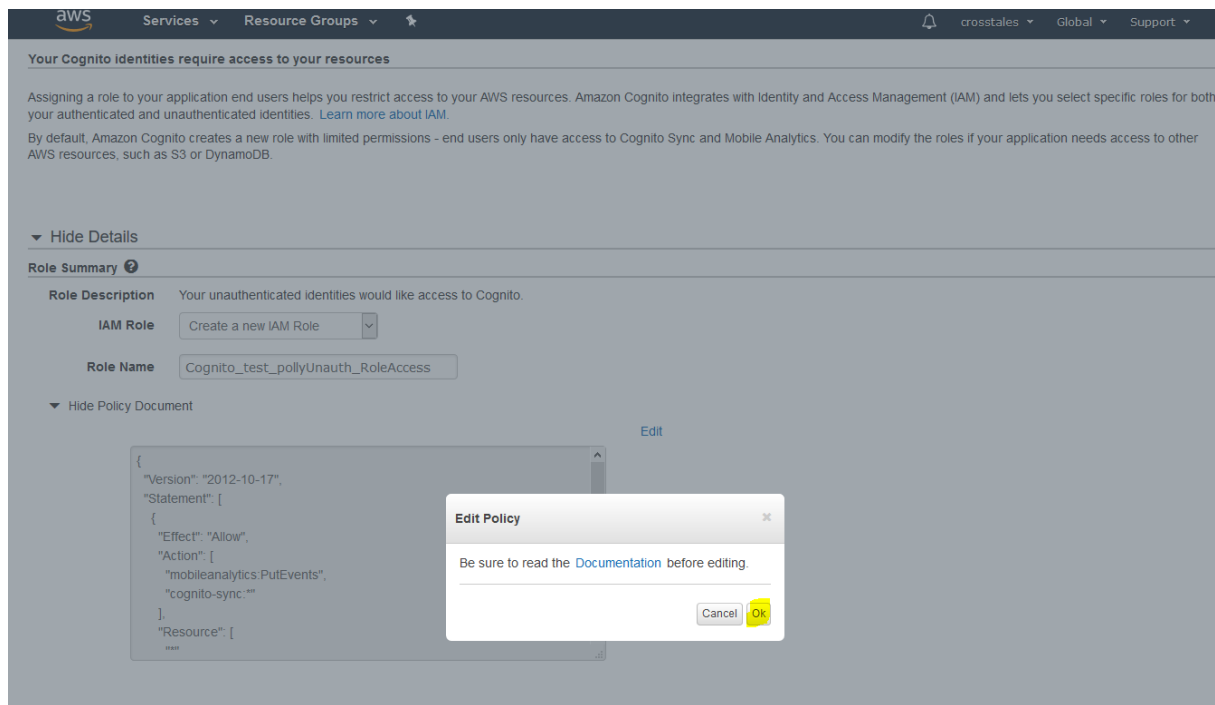
▼ Hide Policy Document

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:


 Services ▾ Resource Groups ▾

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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  
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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

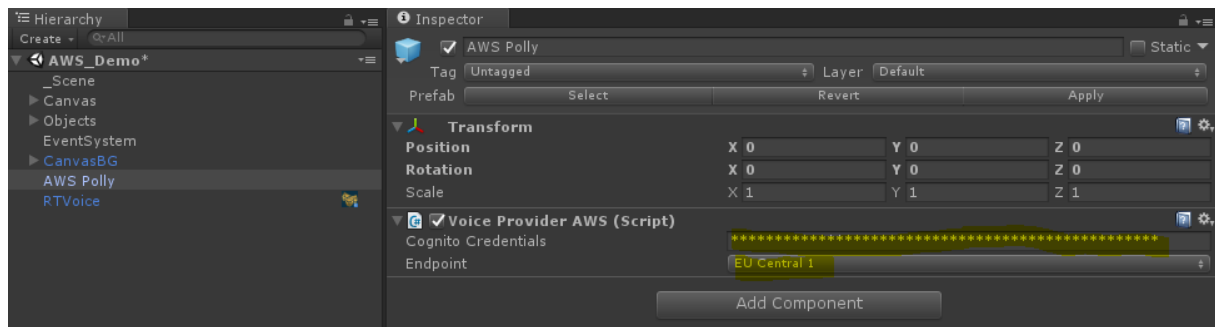
\* Required

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.