

AWS Polly

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

AWS Polly supports more than 20 different languages with over 50 voices.

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

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

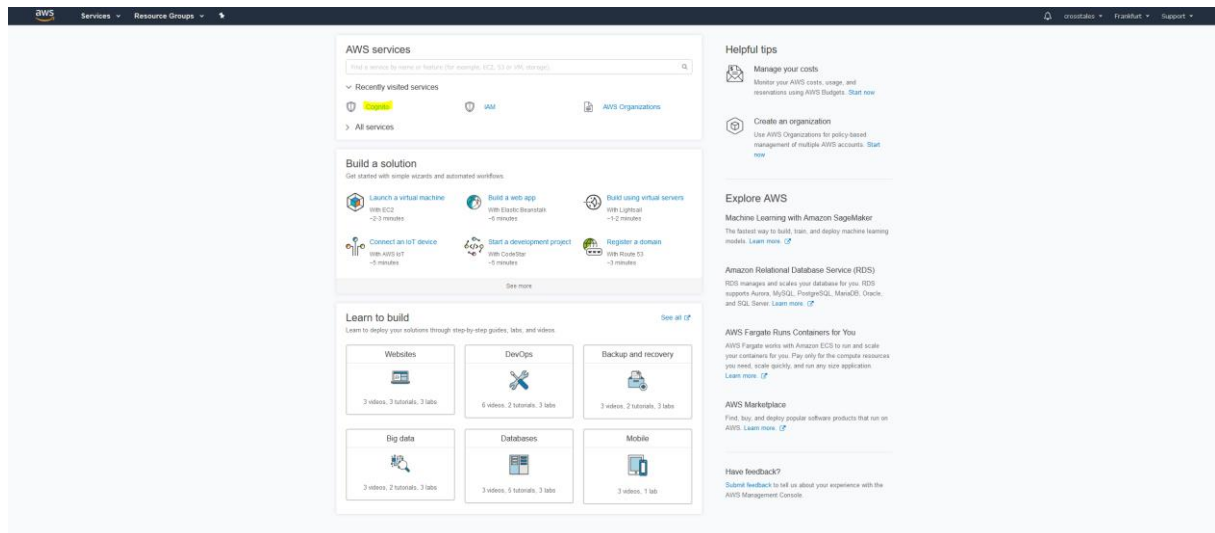
[Visit us at the Unity AssetStore](#)

Setup Cognito Credentials

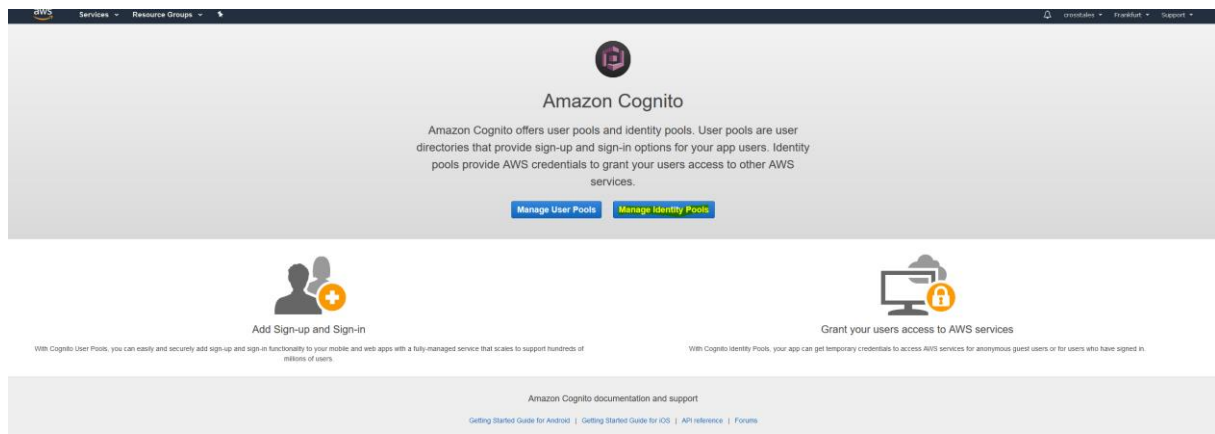
Create an AWS account or sign-in.

<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 divided into two steps: 'Step 1: Create identity pool' and 'Step 2: Set permissions'. In Step 1, users are prompted to 'Create new identity pool' and must enter a unique 'Identity pool name'. Below this, there are two main options: 'Unauthenticated identities' (which includes a checkbox to 'Enable access to unauthenticated identities') and 'Authentication providers'. 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 shows the 'Identity pool' dashboard for 'test_policy'. The left sidebar contains links to 'Dashboard', 'Sample code', and 'Identity browser'. The main content area displays 'Identities this month' with a count of 3 and a line graph showing the growth of identities over time. A callout box for 'Cognito Sync' is present. The 'Authentication methods' section shows 'Unauthenticated' as 100.0% with 3 identities. Below this is a 'Filters' section and a 'Resources' section with 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_pollyUnauth_RoleAccess

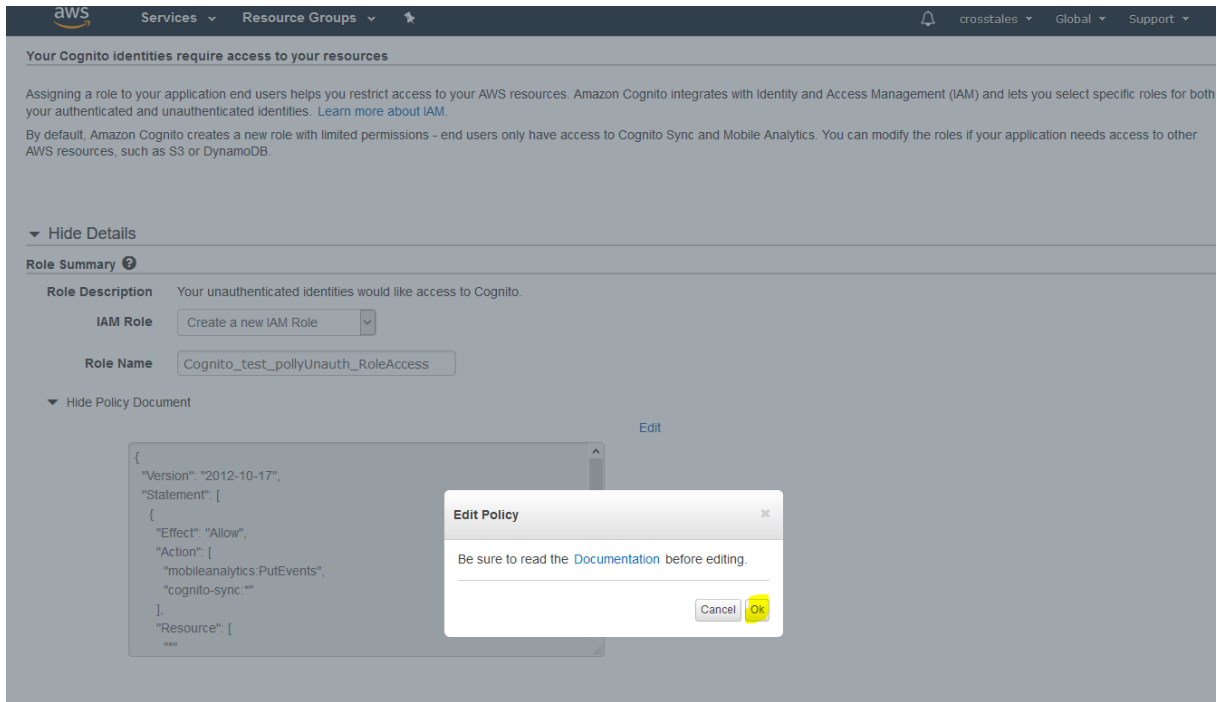
▼ Hide Policy Document

Edit

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

```

Create a new role



aws Services ▾ Resource Groups ▾

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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": [
    {
      "Effect": "Allow",
      "Action": [
        "mobileanalytics.PutEvents",
        "cognito-sync:*"
      ],
      "Resource": [
        "*"
      ]
    }
  ]
}
```

Edit Policy ✕


Be sure to read the [Documentation](#) before editing.

Cancel OK

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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▼ 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 ▾

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

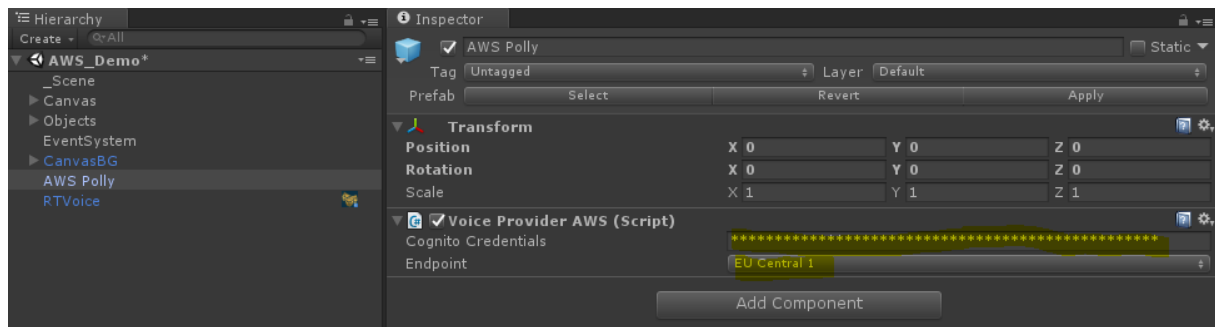
* Required

[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.