

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 create great games in **Unity**:

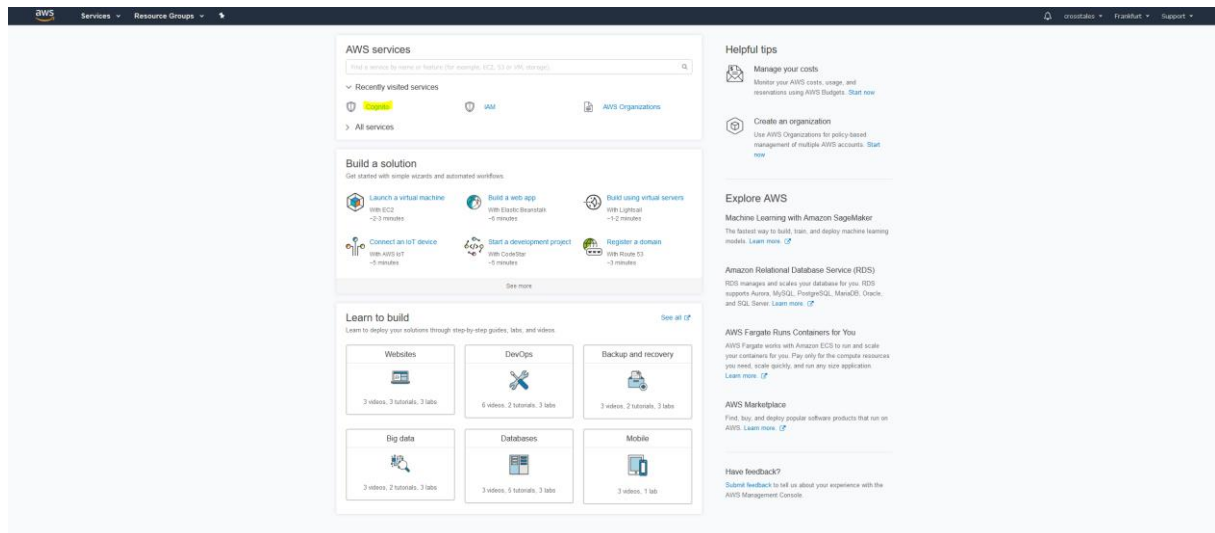
[Visit us at the Unity AssetStore](#)

Setup Cognito Credentials

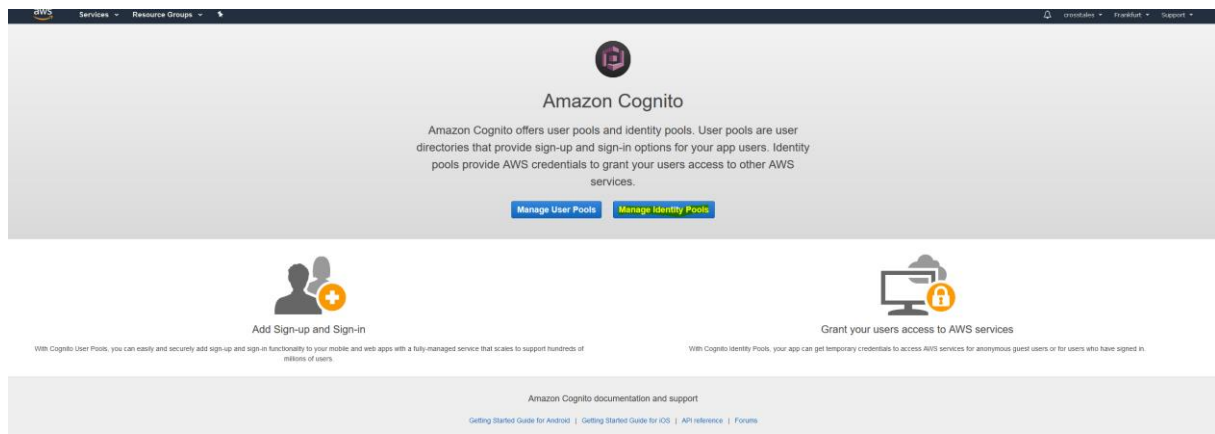
Create an AWS account or sign-in.

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

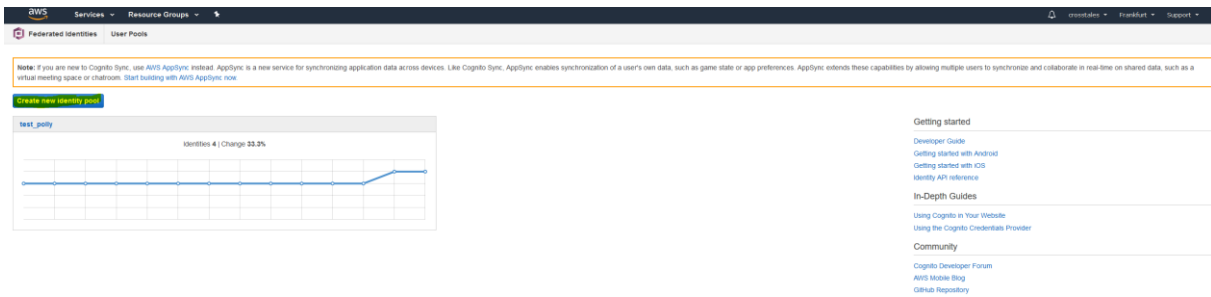
Afterwards click on "Cognito":



Click on "Manage Identity Pools"

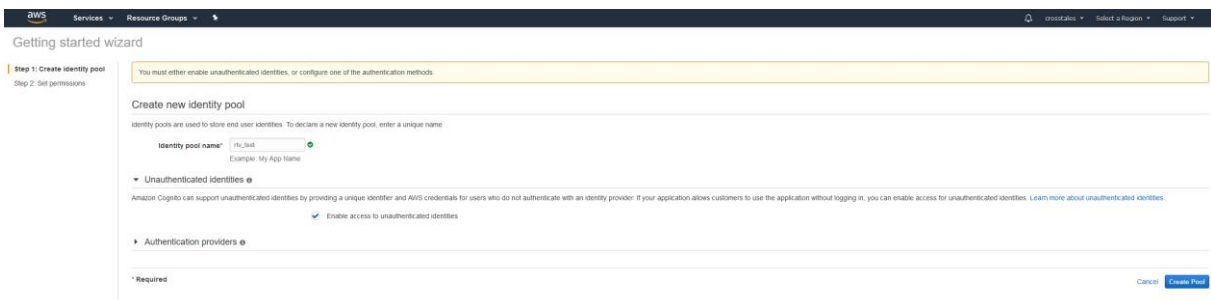


Create a new identity pool:



The screenshot shows the AWS IAM console interface. In the left-hand navigation pane, under 'Federated Identities', the 'User Pools' link is selected. The main content area displays a 'test_policy' graph showing 'Identities 4 | Change 33.3%'. A yellow box highlights the 'Create new identity pool' button in the top left of the main content area. On the right side, there is a 'Getting started' section with links to '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 a 'Community' section with links to 'Cognito Developer Forum', 'AWS Mobile Blog', and 'GitHub Repository'.

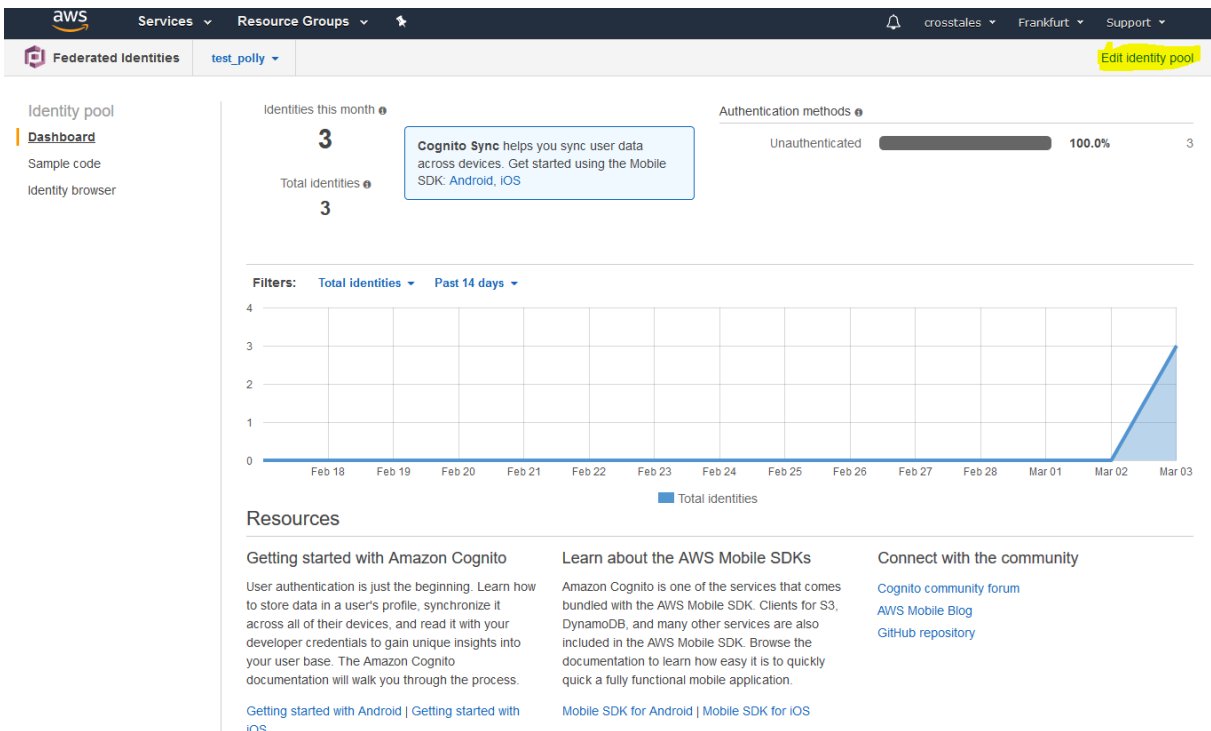
Give the pool a name and create it:



The screenshot shows the 'Create new identity pool' wizard in the AWS IAM console. The wizard is at 'Step 1: Create identity pool'. A yellow box highlights the instruction: 'You must either enable unauthenticated identities, or configure one of the authentication methods.' Below this, the 'Create new identity pool' section shows the 'Identity pool name' field with the value 'my_test' and a green checkmark. Under the 'Unauthenticated identities' section, the checkbox 'Enable access to unauthenticated identities' is checked. The 'Authentication providers' section is currently empty. 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 'Edit identity pool' page in the AWS IAM console for the 'test_policy' pool. The page has a yellow box highlighting the 'Edit identity pool' button in the top right corner. The left-hand navigation pane shows 'Identity pool' with sub-links for 'Dashboard', 'Sample code', and 'Identity browser'. The main content area shows 'Identities this month' with a count of 3, and 'Total identities' with a count of 3. A blue box contains the text: 'Cognito Sync helps you sync user data across devices. Get started using the Mobile SDK: Android, iOS'. To the right, the 'Authentication methods' section shows 'Unauthenticated' with a progress bar at 100.0% and a count of 3. Below this is a line graph showing 'Total identities' over time, with filters for 'Total identities' and 'Past 14 days'. The x-axis ranges from Feb 18 to Mar 03, and the y-axis ranges from 0 to 4. The graph shows a sharp increase in identities starting around Feb 28. At the bottom, there is a 'Resources' section with three columns: 'Getting started with Amazon Cognito', 'Learn about the AWS Mobile SDKs', and 'Connect with the community'. Each column contains links to documentation and community resources.

Create a new role


Services
Resource Groups


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  (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

Edit role


Services
Resource Groups



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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

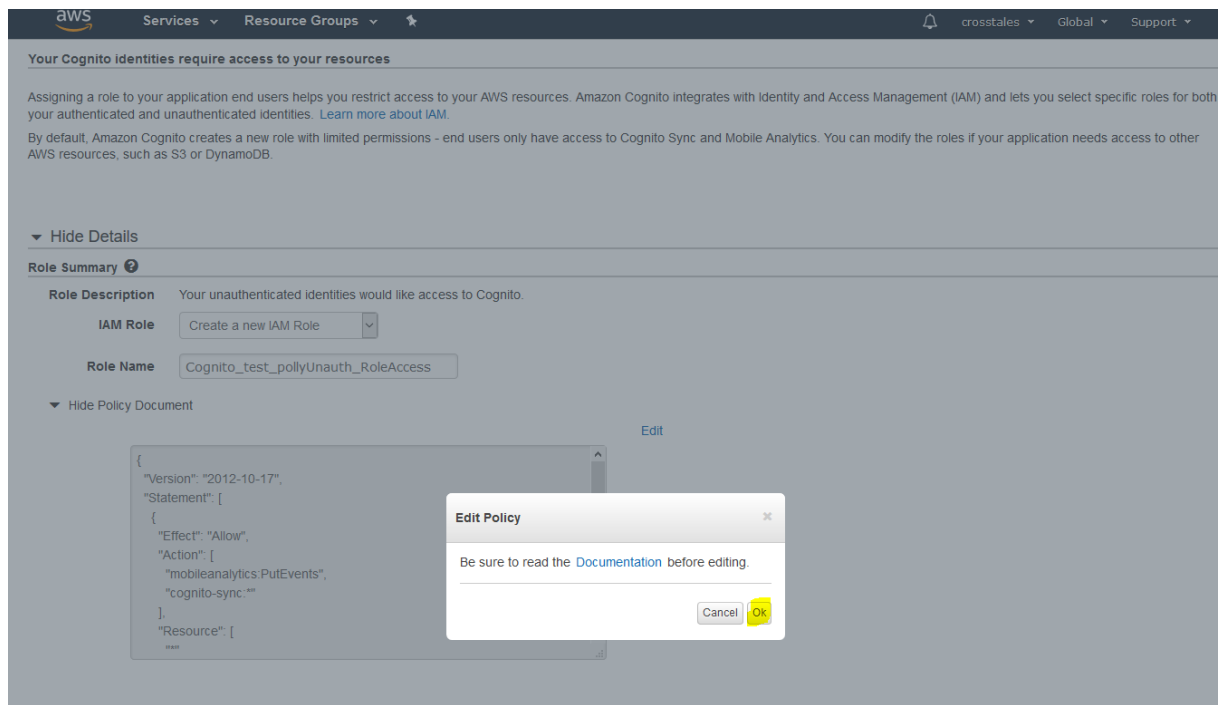
▼ Hide Policy Document

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

```

[Edit](#)


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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▼ 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 ▾

crosstales ▾ Frankfurt ▾ Support ▾

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

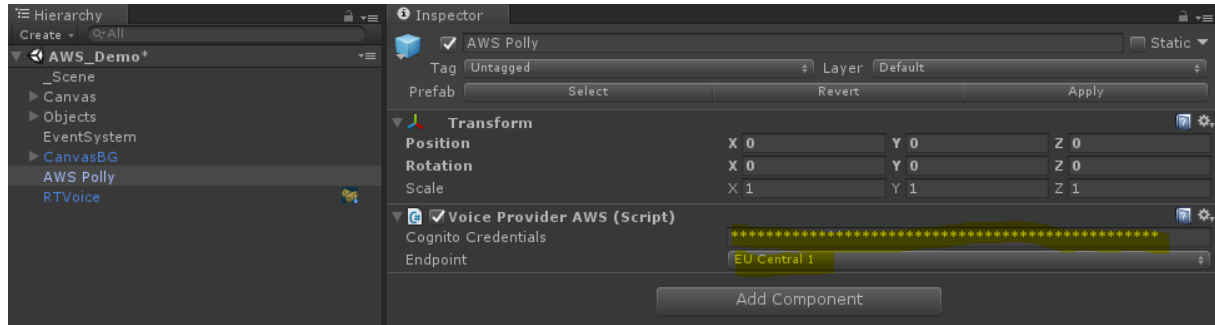
* Required

[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!

Done :-)