

TEXT TO SPEECH

Go to windows PowerShell check if you have python installed using following command

```
>>> python --version
```

Check if you have pip3 installed or install it

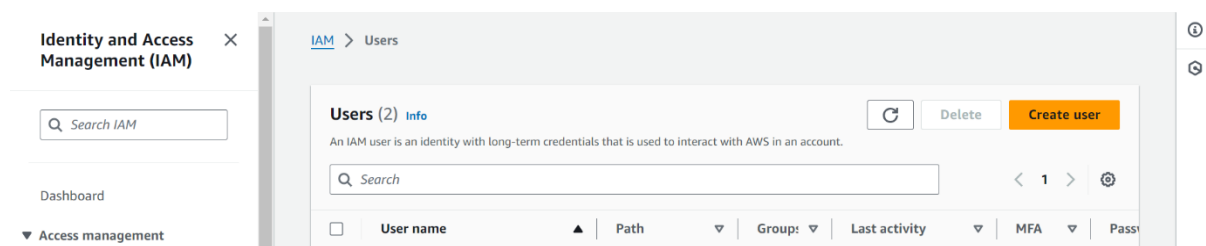
```
>>> pip3 --version
```

Next we will install the SDK we need for this project that is Boto3

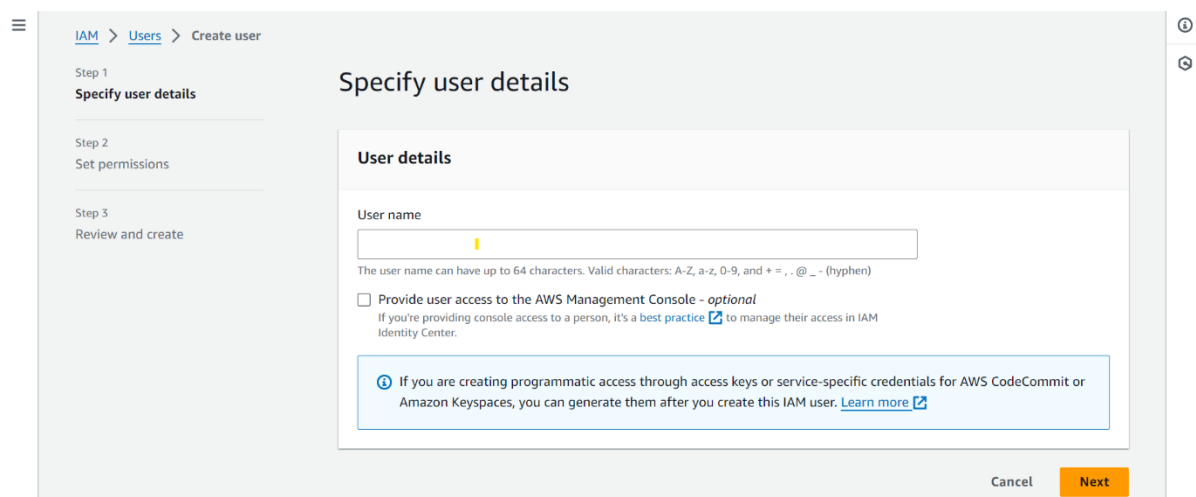
```
>>> pip3 install boto3
```

Install the AWS cli for windows or any operating system from the following link -
<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>

Now we have the python and SDK installed we should configure the cli with AWS to access the functionalities of it. For this here we create a IAM user. Go to the management console of AWS search for IAM and click on create user. We can also provide the root user information.



Name your user and click on next. (Don't select the option to provide the access to the console as we don't need to have we will do it using the cli)



We will set the permissions, we can also add it to an existing group of user. But here we will add the policies directly. Click on 'Attach policies directly'.

Step 1
[Specify user details](#)

Step 2
Set permissions

Step 3
Review and create

Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Permissions options

- ☒ **Add user to group**
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.
- ☐ **Copy permissions**
Copy all group memberships, attached managed policies, and inline policies from an existing user.
- ☐ **Attach policies directly**
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Get started with groups
Create a group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

[Create group](#)

► **Set permissions boundary - optional**

A dropdown list will appear from which we can add the policies we want. For this we only need to access the AWS Polly.

Permissions policies (1208)

Choose one or more policies to attach to your new user.

[Create policy](#)

Filter by Type

Search

All types

< 1 2 3 4 5 6 7 ... 61 >

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AccessAnalyzerService...	AWS managed	0
<input type="checkbox"/>	AdministratorAccess	AWS managed - job function	0
<input type="checkbox"/>	AdministratorAccess-A...	AWS managed	0
<input type="checkbox"/>	AdministratorAccess-A...	AWS managed	0
<input type="checkbox"/>	AlexaForBusinessDevic...	AWS managed	0
<input type="checkbox"/>	AlexaForBusinessFullA...	AWS managed	0
<input type="checkbox"/>	AlexaForBusinessGate...	AWS managed	0
<input type="checkbox"/>	AlexaForBusinessLifes...	AWS managed	0
<input type="checkbox"/>	AlexaForBusinessNetw...	AWS managed	0
<input type="checkbox"/>	AlexaForBusinessPoly...	AWS managed	0

So search Polly and add the 'AmazonPollyFullAccess'. Click on next.

Permissions policies (1208) Refresh Create policy

Choose one or more policies to attach to your new user.

Filter by Type

X All types 2 matches < 1 > Settings

<input type="checkbox"/>	Policy name ↗	Type	Attached entities
<input type="checkbox"/>	AmazonPollyFullAccess	AWS managed	1
<input type="checkbox"/>	AmazonPollyReadOnl...	AWS managed	0

[▶ Set permissions boundary - optional](#)

Cancel Previous Next

Now review the configurations and create user.

Step 3
Review and create

User name hdhdh	Console password type None	Require password reset No
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Permissions summary < 1 >

Name ↗	Type	Used as
AmazonPollyFullAccess	AWS managed	Permissions policy

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

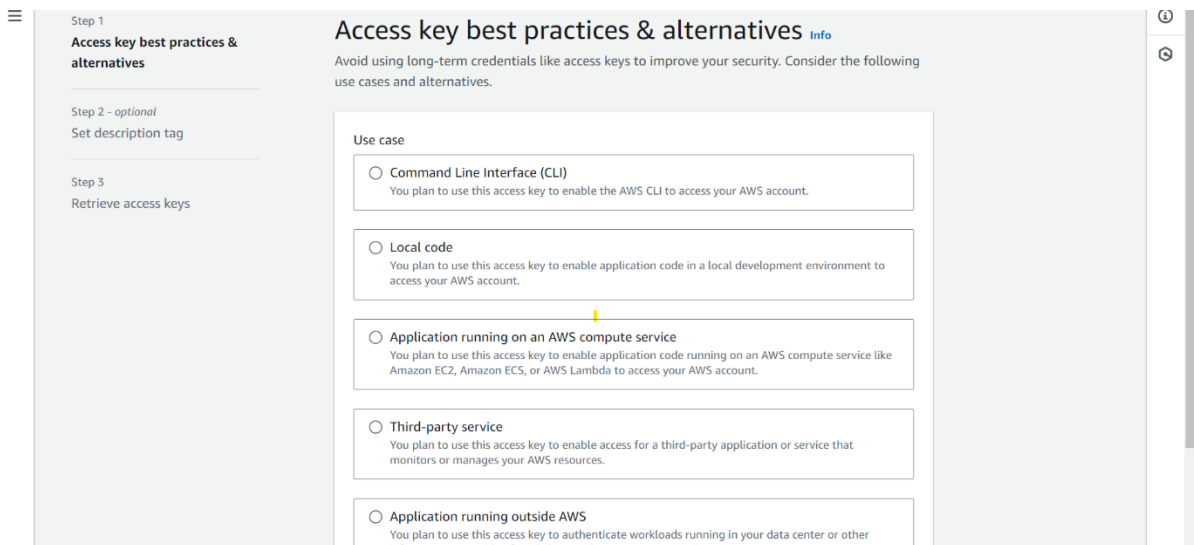
No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Previous Create user

After the user is created click on it and search for 'Create access key' option. Following window will appear.



Choose the first option to use for CLI. Click on next. And click on create access key and the access key will be created. Download the csv file and store it safe. Here we will need the 'Access key' and the 'Secret access key'.

Open the PowerShell again and check if the AWS CLI is installed.

```
>>> pip install awscli
```

Now we will configure our AWS IAM user. Type the following

```
>>> aws configure --profile (iam user name)
```

This will create a new profile for our IAM user.

Next it will ask you for the AWS access key id, copy and paste the access key which we created just now. Press Enter.

Next do the same for the AWS secret access key. Press Enter.

Next provide the region name. Press Enter.

Next the output format, write 'json'. Press Enter.

Now we have completed the configurations. Hence the system would know which AWS account to act upon.

Type the following to see the user in your system on PowerShell

```
>>> cd .aws
```

```
>>> dir
```

```
>>> type config
```

Here we can see the profile name which we have created and use it in the python code .

Now we will write the code In python for text to speech copy it from the 'my.py' file.

Note: Don't forget to add your profile name and your region in the following line of code

```
>> aws_mag_con = boto3.session.Session(profile_name='my-polly')  
    client = aws_mag_con.client(service_name='polly', region_name='ap-south-1')
```

After this run your code enter the text and click on read. Your system media player will open up the text will be read-a-loud.