

WinEcho Setup

Welcome to the WinEcho project. If you are downloading this you are likely a little bit like us. Developing for the Echo and Alexa but wanting to do this on your Windows PC.

This project is a Alexa Application developed for Windows 10.

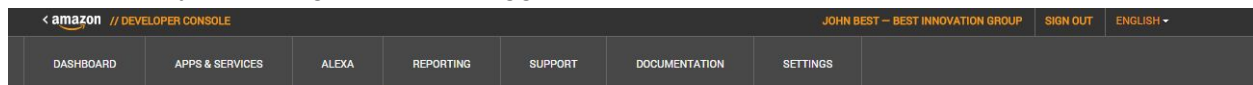
Special thanks to <https://github.com/whalleyboi> for his AlexaloT project from which we drew inspiration and the audio code.

Things you will need

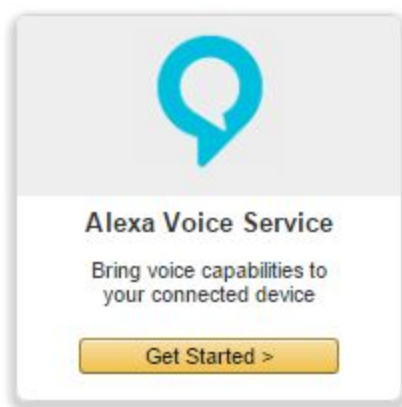
1. Speakers and Microphone
2. A local IIS server or IIS server somewhere for OAuth.
3. Amazon Developer account
4. Visual Studio 2015 (any edition will do)

Setting up your Amazon Account

1. Go to <http://developer.amazon.com> and register for an account
2. Once you are registered and logged in click the Alexa link in the toolbar



3. Once there , Setup a new Alexa Voice Service account



4. Register a new Application

Register your product with Alexa Voice Service

Getting Started

- 1) Learn how to Alexa-enable your devices or application by reading our [Getting Started Guide](#).
- 2) If you are a **device manufacturer**, choose **Register a Product Type > Device** to start enabling Alexa on your device.
- 3) If you are an **application developer**, choose **Register a Product Type > Application** to start enabling Alexa in your app.

Register a Product Type			
Device			
Application	ID	Type	Category

5. Fill in information

[< Back to the list](#)



Create a new Application Type

[Getting started](#)
[AVS Agreement](#)
[AVS Program Requirements](#)

* Fields required

Application Type Info ✓	Company Name The name of the company you listed in your developer account profile.	Best Innovation Group
Security Profile ✓		
Application Details ✓		
Amazon Music ✓		
	Application Type ID * Choose a unique name that identifies your application. This name will not be shown to end users. It may only contain letters, numbers and underscores.	<input type="text" value="WinEcho2"/>
	Display Name * Choose an application name that you want shown to your end users when they register their applications with Amazon.	<input type="text" value="WinEcho2"/>

Next

6. Create a new security profile

* Fields required

You need a security profile to identify your application. Your security profile credentials - cli application to securely identify itself to the Alexa Voice Service. If you are building a website building an Android or iOS app, click here to [Learn More](#).

Security Profile ? *

A security profile is how Amazon identifies your application.

Select Security Profile ▼

7. Name it.

[< Back to the list](#)



Create a new Application Type

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* Fields required

Application Type Info	✓
Security Profile	✓
Application Details	✓
Amazon Music	✓

You need a security profile to identify your application. Your security profile credentials - client ID and client secret - allow your application to securely identify itself to the Alexa Voice Service. If you are building a website, click here to [Learn More](#). If you are building an Android or iOS app, click here to [Learn More](#).

Security Profile ? *

A security profile is how Amazon identifies your application.

Create a new profile ▼

General

Web Settings

Android/Kindle Settings

iOS Settings

Security Profile Name *

Choose a name for your security profile.

WinEcho_sec2

Security Profile Description *

Choose a description for your security profile for Amazon services to use in communicating with you.

WinEcho_sec2

8. Important Step- Collect Security Information

Store this in a safe place. You will need it later.

[< Back to the list](#)



Create a new Application Type

Getting s
AVS Agre
AVS Proc

* Fields required

Application Type Info	✓
Security Profile	✓
Application Details	✓
Amazon Music	✓

You need a security profile to identify your application. Your security profile credentials - client ID and client secret - allow your application to securely identify itself to the Alexa Voice Service. If you are building a website, click here to [Learn More](#). If you are building an Android or iOS app, click here to [Learn More](#).

Security Profile ? *

A security profile is how Amazon identifies your application.

WinEcho_sec2 ▼

General

Web Settings

Android/Kindle Settings

iOS Settings

Security Profile Description

Choose a description for your security profile for Amazon services to use in communicating with you.

WinEcho_sec2

Security Profile ID

This ID will identify your security profile in Amazon services.

amzn1.application.45531b3cdf224f3b91250148b544a94d

Client ID ?

This is a value specific to you that is assigned to you when you register with Login with Amazon.

amzn1.application-oa2-client.e472c46d257b4d75a3237df07a786f42

Client Secret ?

This is a secret specific to you that is assigned to you when you register with Login with Amazon. Confidential.

26383559ec3a42edd79f0f9f0d04502046cb068213f75c9485d6c55989936e2

9. Setup Web server - in order to use OAuth for amazon you will need to have a working web server somewhere. Easiest way is to setup IIS locally on your Windows 10.

To **install** it, press the **Windows** + R key combination to bring up a run box, then type appwiz.cpl and press enter. This will open the Program and Features part of Control

Panel, on the left hand side click on the “Turn **Windows** features on or off” link. Now click on the Internet Information Services check box.

10. Once you have the web server setup and tested go to the “Web Settings” in the Developer. Amazon.com portal

[< Back to the list](#)

[Getting started](#)
[AVS Agreement](#)
[AVS Program Requirements](#)

Create a new Application Type

* Fields required

Application Type Info ✓

Security Profile ✓

Application Details ✓

Amazon Music ✓

You need a security profile to identify your application. Your security profile credentials - client ID and client secret - allow your application to securely identify itself to the Alexa Voice Service. If you are building a website, click here to [Learn More](#). If you are building an Android or iOS app, click here to [Learn More](#).

Security Profile ? *

A security profile is how Amazon identifies your application.

WinEcho_sec2 ▼

Edit

General Web Settings Android/Kindle Settings iOS Settings

Allowed Origins ?

Your website origin, when using Login with Amazon.

Allowed Return URLs ?

If you make HTTPs calls to Login with Amazon with redirect_uris, specify them here.

Next

11. Click Edit and add your web sites info

General Web Settings Android/Kindle Settings iOS Settings

Allowed Origins ?

Your website origin, when using Login with Amazon.

http://localhost/

http://localhost:5339

[Add Another](#)

Allowed Return URLs ?

If you make HTTPs calls to Login with Amazon with redirect_uris, specify them here.

http://localhost/signin.html

http://localhost:5339/signin.html

[Add Another](#)

Next

12: Finish the setup

[< Back to the list](#)



Create a new Application Type

* Fields required

Application Type Info	✓
Security Profile	✓
Application Details	✓
Amazon Music	✓

Image

Upload an image sized 142(width)x130(height) pixels in either PNG or JPG format. This image is displayed on your customer's [Manage Your Content and Devices](#) page.



Choose an image...

Category *

Choose the category that best describes where and how your application is used.

Choose option ▼

Description *

Please provide a brief description of your application and its functionality.

Are you planning to distribute your application through an app marketplace?

Some Alexa content and domains may not be available on some app marketplaces.

- ☐ Amazon Appstore
- ☐ Apple App Store
- ☐ Google Play
- ☐ Other

What is your expected timeline for commercialization? *

If you would like to continue to have Audible enabled in your commercialized application, you will need to certify your application with Amazon before commercializing it. Get started evaluating Alexa (including Audible) in your application now, and we will contact you with guidance on the certification process. [Learn more.](#)

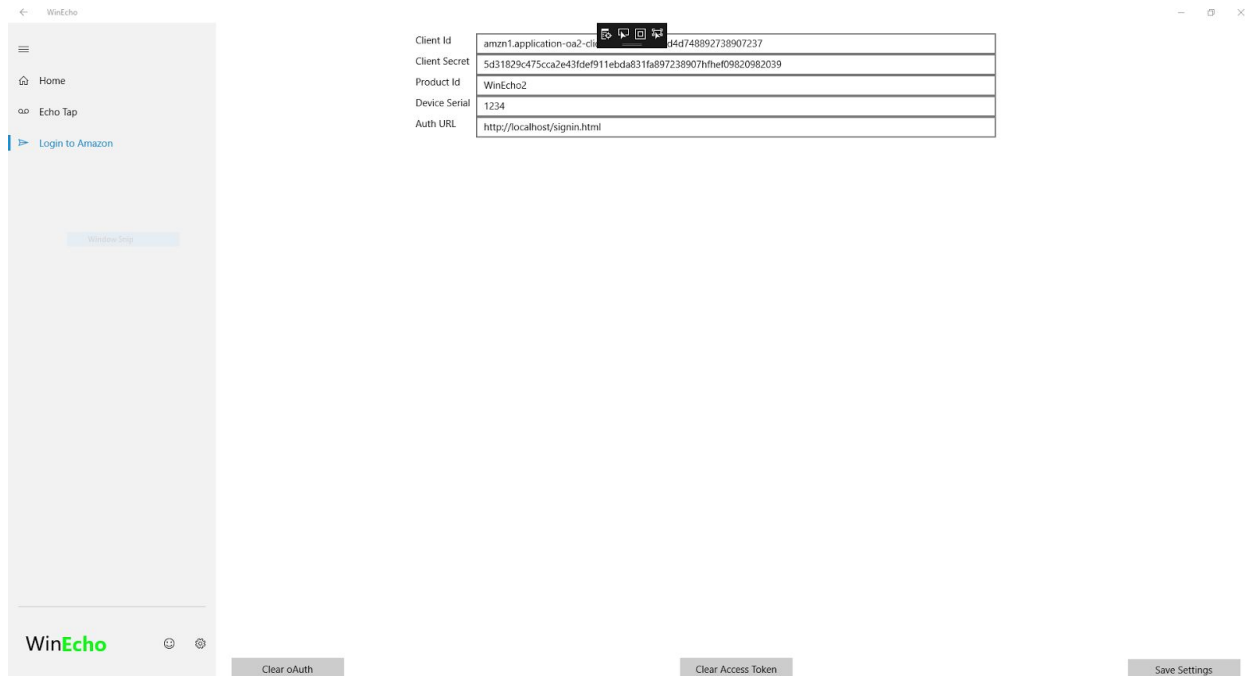
Choose option ▼

How many applications are you planning to commercialize? *

Setup WinEcho

1. Download and run WinEcho
2. Fill in Settings

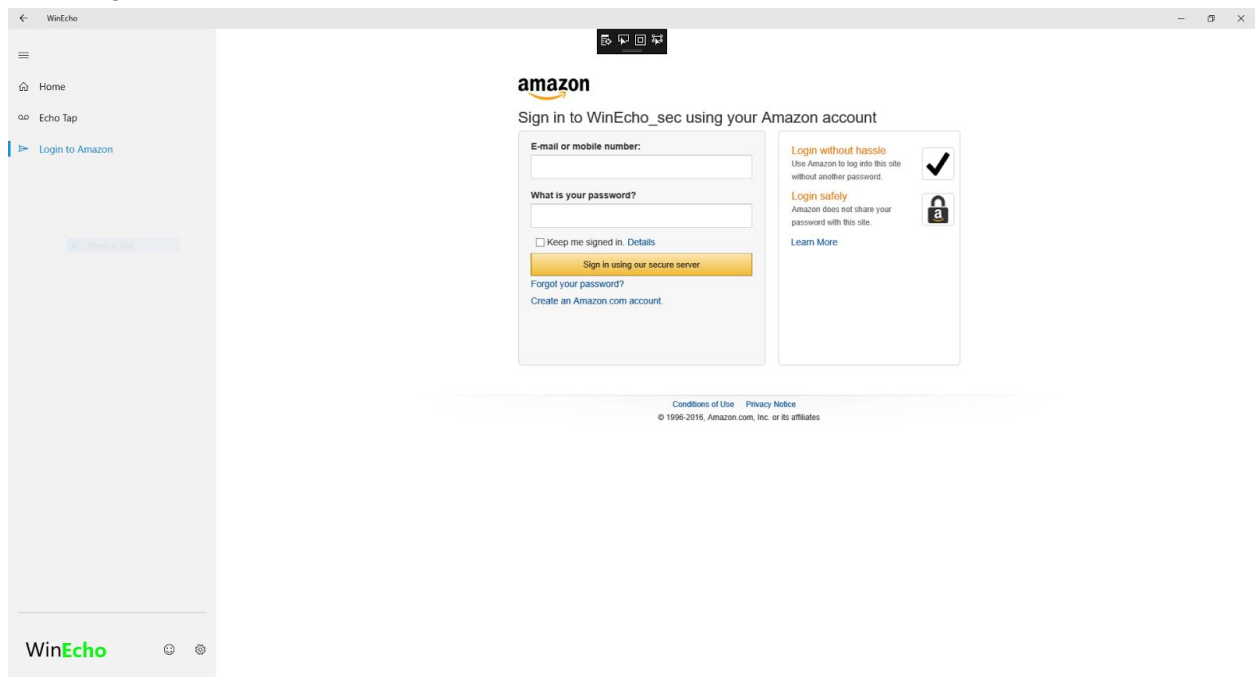
Click the gear at the bottom the application and fill in the information setting information you collected in step 8 above, Serial can be anything



Click Save Settings

3. Login into Amazon

Click Login to Amazon in the menu on the left



4. Use the ECHO

Click and hold the button with the microphone in the middle of the tap and say “tell me a joke” then release the button (this sends the audio to amazon) and listen for a response.

If you get a joke back, you are done! Now you can test your ECHO development projects with a windows application.



If you have questions or want to join the program hit us at Github@big-cu.com or post in the issues area.

Here are some of our To Do's

Add a fast fourier transform to the project so that you can have a view where when alexa responds you get some graphical feedback.

Add lights to the Tap image , as well as the button that you press so it changes color when you press it. Also so that the blue lights move at the top similar to a Tap.

Clean up the whole project - not really good at graphics , did the best we could.