Hackspace Pi / Echo Tutorial by David Primus

REVISIONS

NOTE: In April 2018, the Amazon Developer Console was upgraded to a new version. The user interface changed significantly. Early versions of this tutorial describing setting up the AWS skill will no longer work. This document shows the differences – the old text is struck-out; the new text is highlighted in yellow.

To create your skill, you need to have an Amazon Developer account. Sign up for one here: https://developer.amazon.com. Once you have created your account, login and set up the skill.

Click **Developer Console** at the top right. Click **Alexa**, then **Get Started>** in the **Alexa Skills Kit** box. Click **Add a New Skill**. This will walk you through a series of screens, starting with **Skill Information**. Fill out the screens as follows, leaving everything else at default.

Click **Developer Console** at the top right. Click **Alexa Skills Kit**, then **Create Skill**. This will walk you through a series of screens, starting with **Create a new skill**. Fill out the screens as follows, leaving everything else at default.

Create a new skill

Enter Pi Station into both the Name and Invocation Name fields. Click Save, then Next.

Enter **Pi Station** into **SkillName** field. Click **Next**.

Choose a model to add to your skill

Click Select in the Custom box, then click Create Skill.

Skill builder checklist

Click **Invocation Name**, then enter **pi station** into the **Skill Invocation Name** field. Click **Save Model**, then click your browser's back arrow to return to the skill builder checklist.

Click Intents, Samples, and Slots, then enter YesIntent into Enter name for intent field, then click Create custom intent. In the Sample Utterances field, enter Yes, then click the + sign. Add a No intent by clicking the Add button next to Intents, then enter NoIntent into Enter name for intent field, then click Create custom intent. In the Sample Utterances field, enter No, then click the + sign. Click Save Model, then click your browser's back arrow several times to return to the skill builder checklist.

Click **Build Model**. This will take several minutes.

In the next two steps, you can either type the code or copy and paste it from the text files in the directory **pi_echo**.

Interaction Model

Enter into Intent Schema the following schema in JSON (JavaScript Object Notation) format. Note the use of spaces to line up the brackets.

Enter into Sample Utterances the utterances, then Click Next.

@code

YesIntent yes
YesIntent sure
NoIntent no
NoIntent go away

Click **Endpoint**, then click HTTPS. Be sure ngrok is still running in a terminal window; if not, run it again and use the new address. Enter the web address from ngrok into the **Default Region** field. In the **Select SSL certificate type** field below, select **My development endpoint is a subdomain of a domain** that has a wildcard certificate from a certificate authority. Click **Save Endpoints**.

At this point, you may need to enable the skill for your echo device. Using the Alexa app, find the skill **Pi Station**, and click **Enable**. The skill will then be accessible from your echo. Note that it may take a few minutes for the skill to be recognized.

Configuration

Set the **Service Endpoint Type** to **HTTPS**. Be sure ngrok is still running in a terminal window; if not, run it again and use the new address. Enter the web address from ngrok into the **Default** field. Click **Next**.

SSL Certificate

Select My development endpoint is a subdomain of a domain that has a wildcard certificate from a certificate authority. Click Next.

Test

You now will be on the **Test** screen and should see five green checkmarks. This indicates you are ready to test the setup. Do nothing more on this screen.