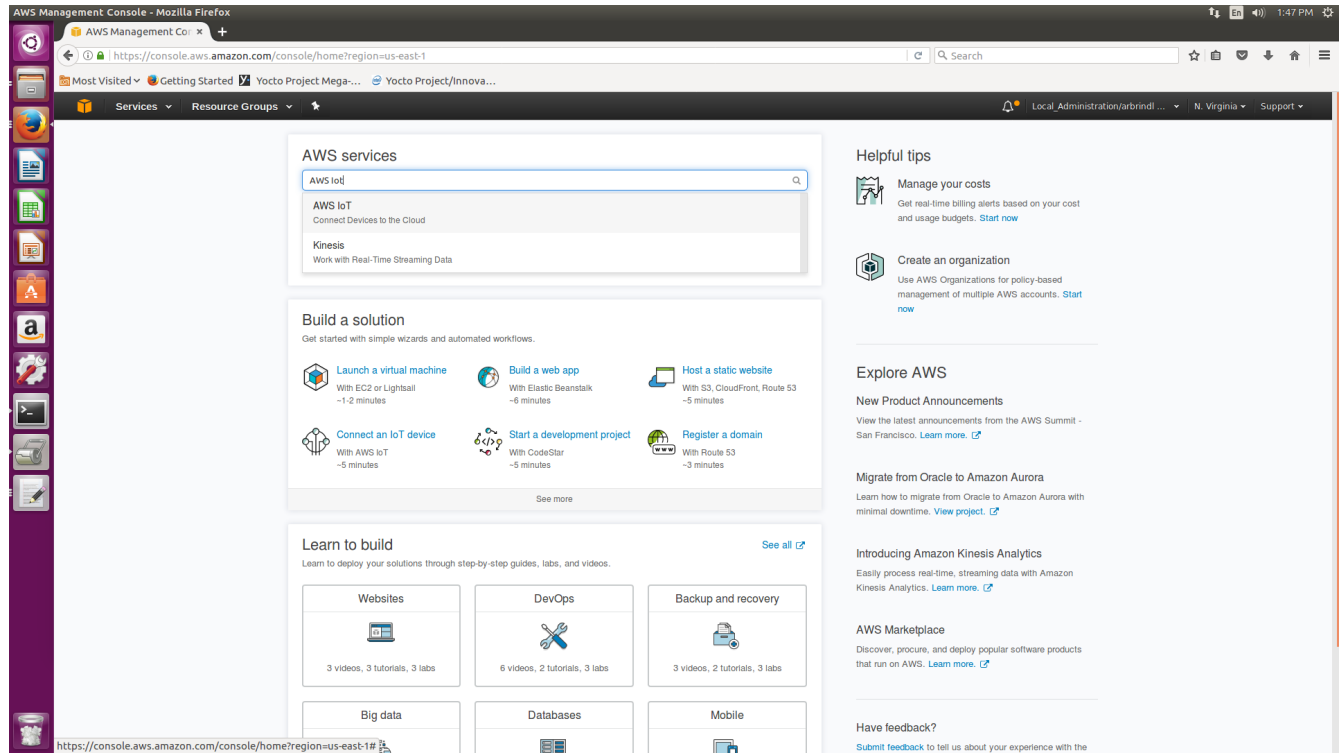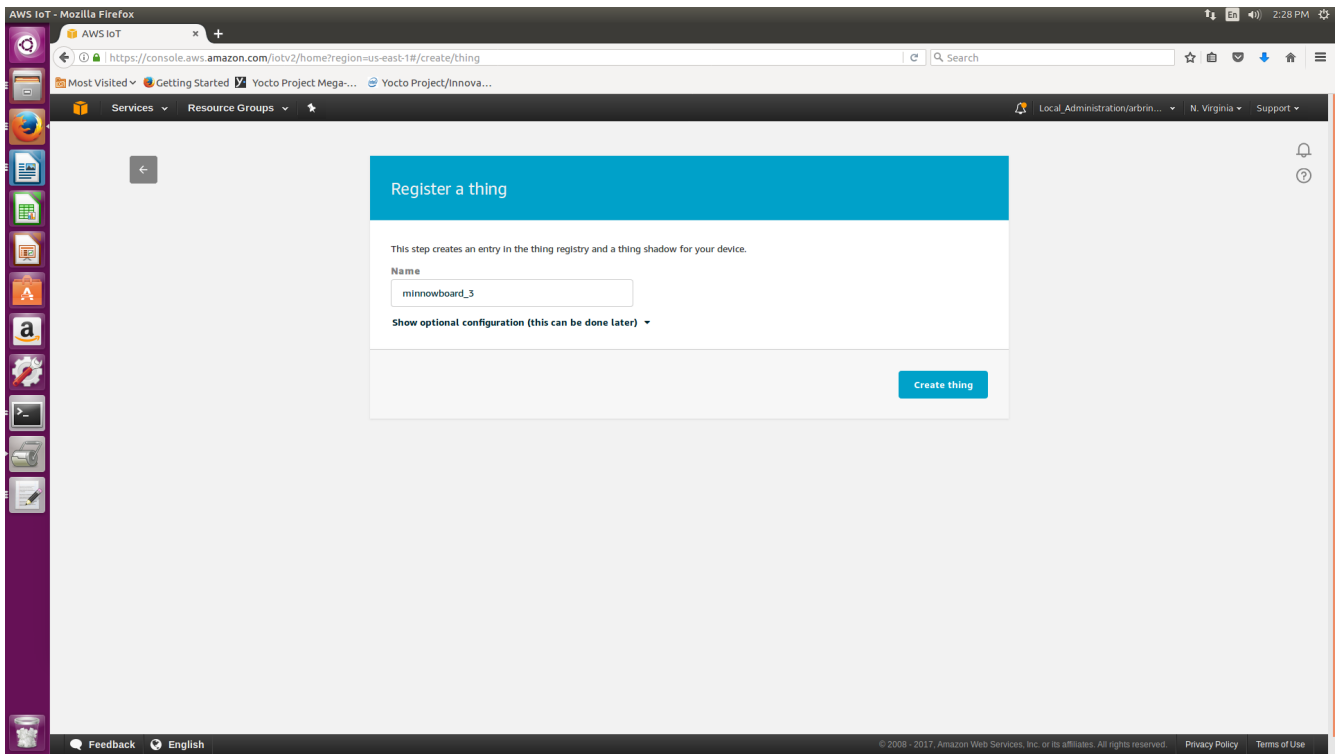# 1. How to Register Your Minnowboard as an IoT Device

This requires internet connection on your device.

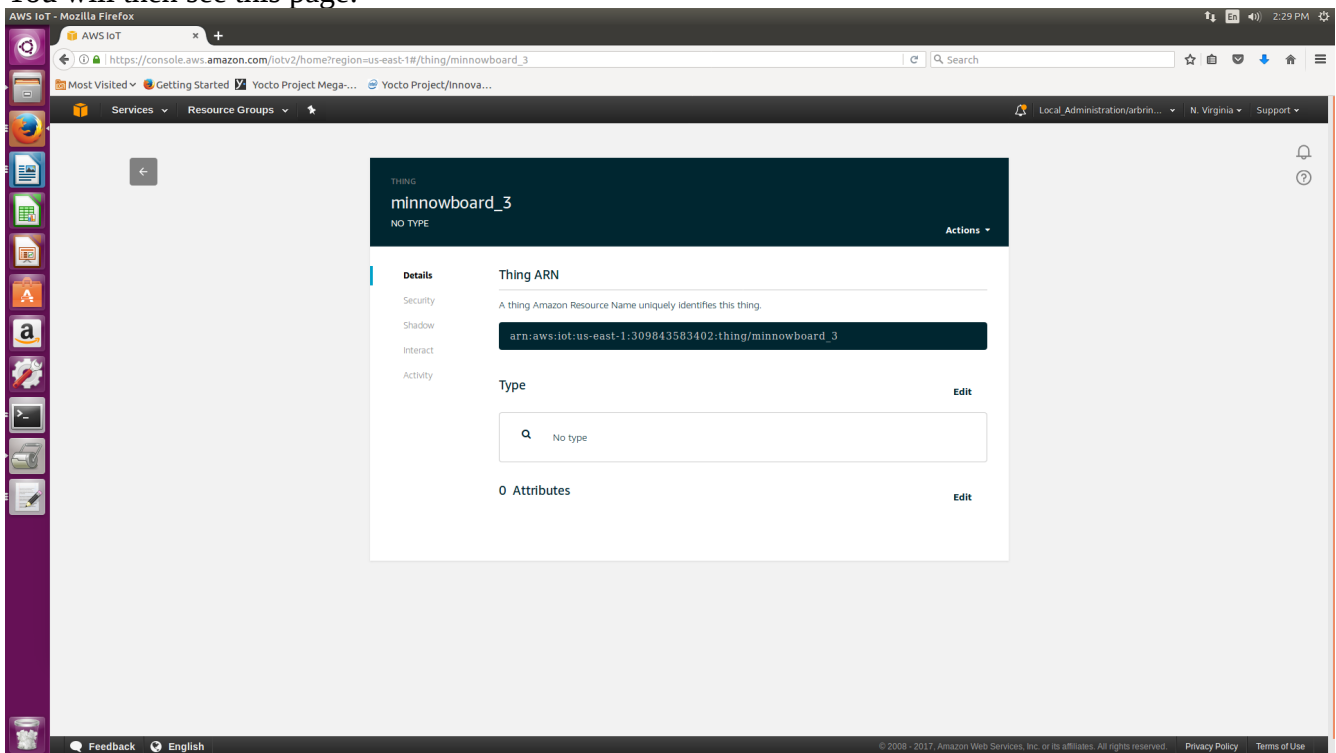In the Amazon Web Services home page, search for AWS IoT.



On the AWS IoT page, click, on the sidebar, **Registry**, and then **Things**. If you haven't created any Things yet, click **Register a thing**. Otherwise, click **Create**.
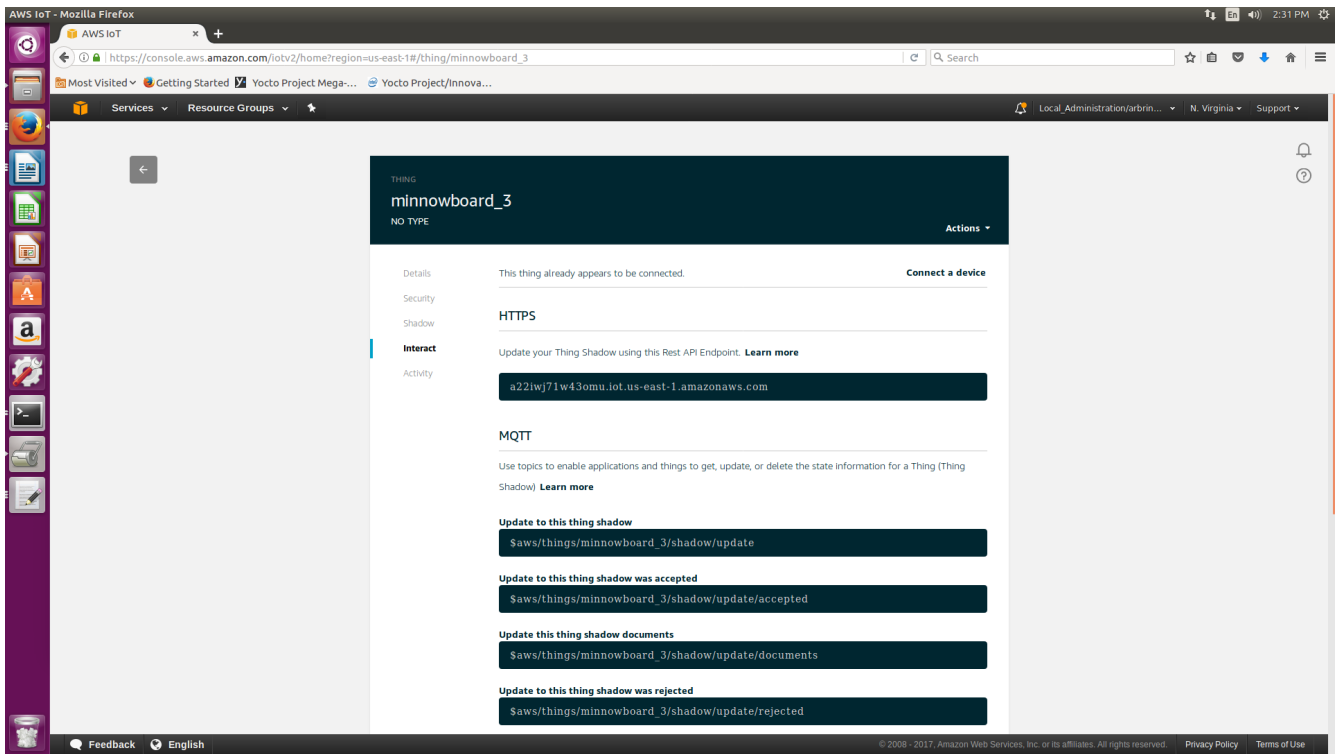
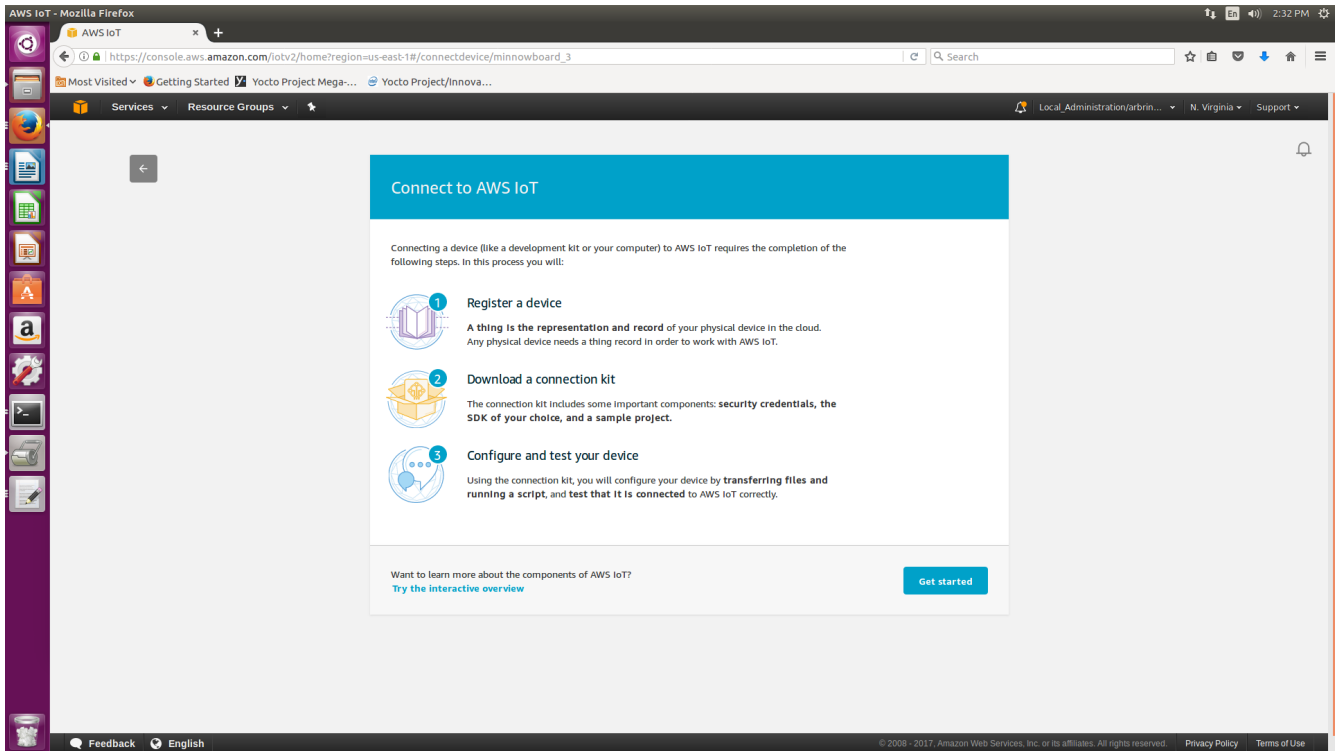Give your thing a name, and then click **Create thing**.
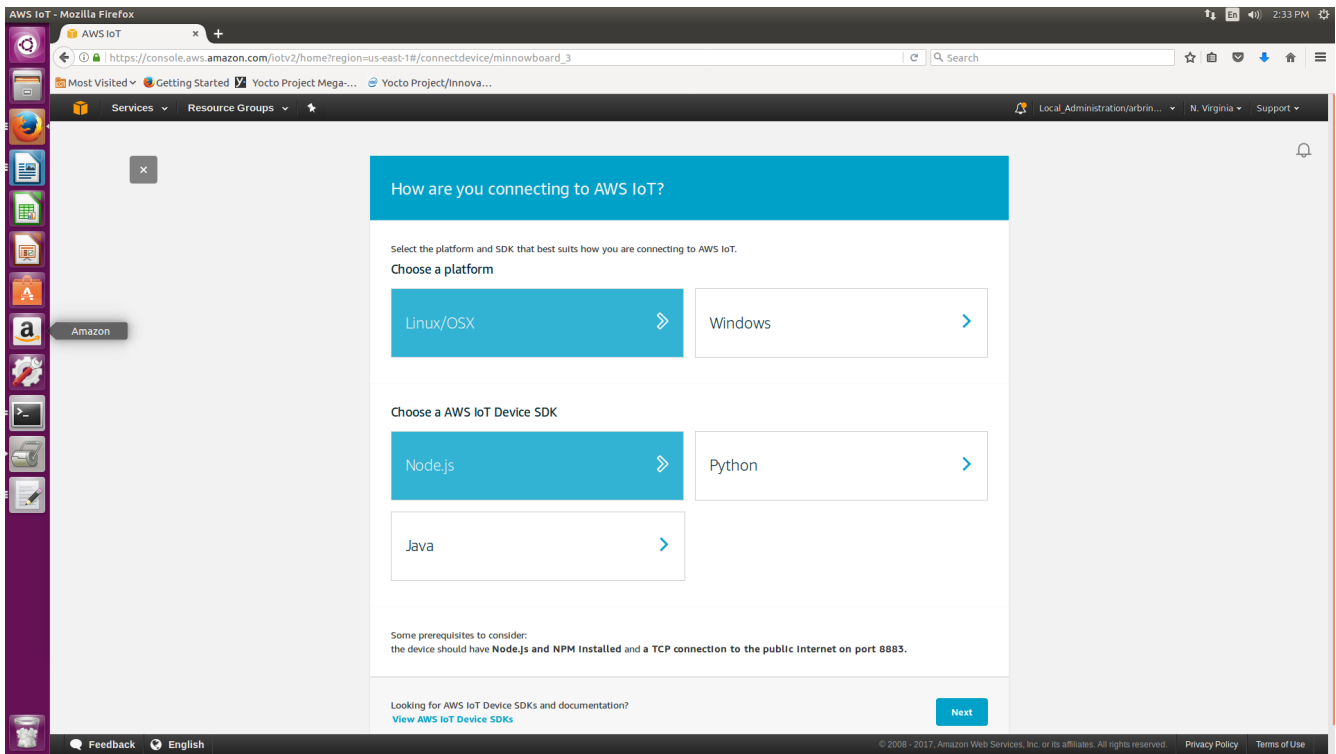
You will then see this page:



In the sidebar, click **Interact**. You will see this page:

Click on **Connect a device**.



Click **Get started**.

For platform, choose Linux/OSX.
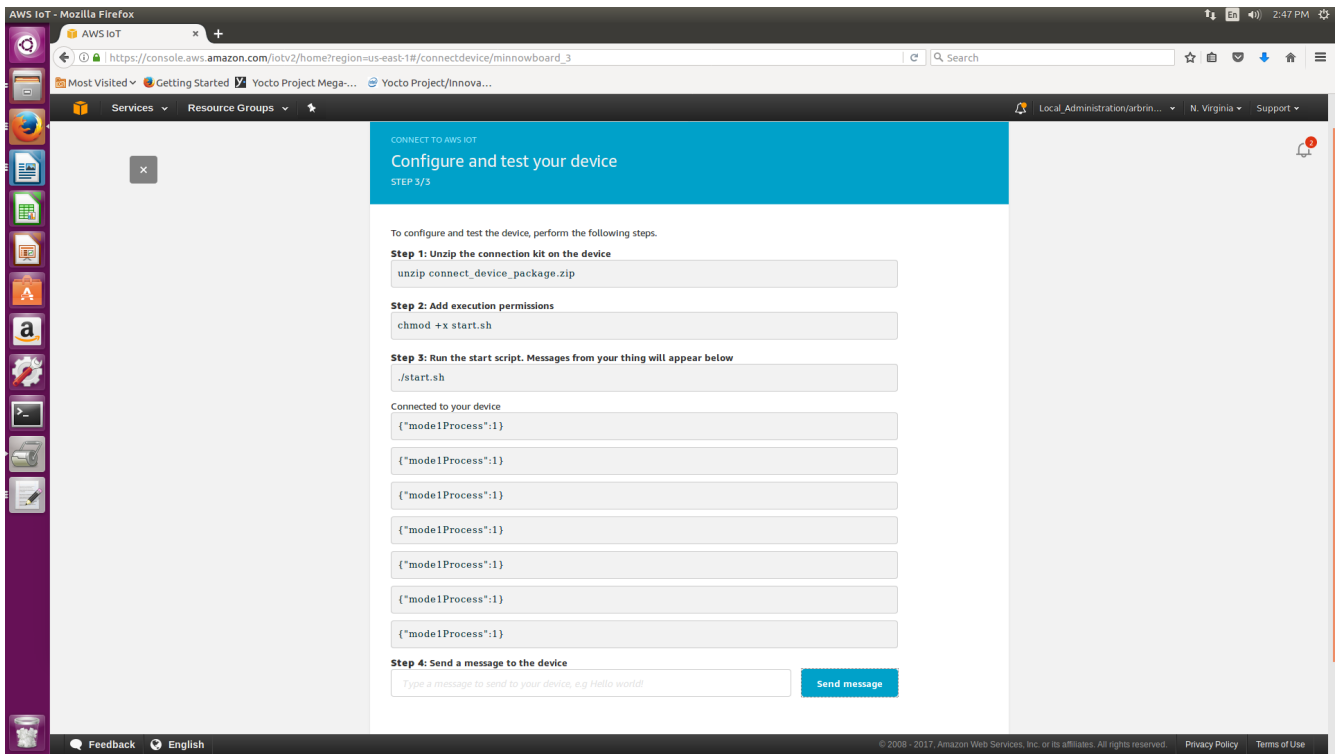For AWS IoT Device SDK, choose Node.js.
Click **Next**.
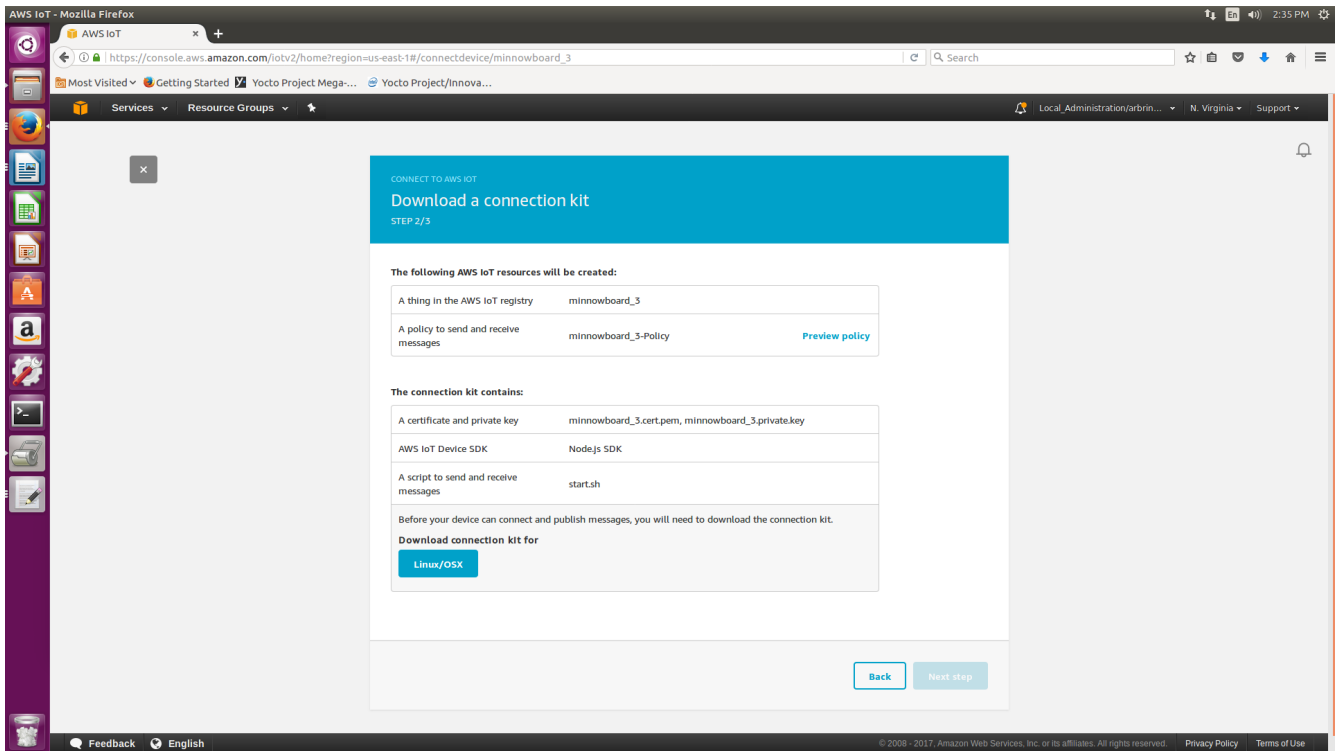


Click the link to download the connection kit. If you're not on the device that you want to register, you can copy the connection kit to the correct device using a usb. A Yocto generated image might also be unable to unzip the file, so you can unzip the folder before copying the files over. Copy

connect_device_package to the root directory "/". If you don't, you will need to update main.js with the new path to the node_modules directory. Click **Next step**
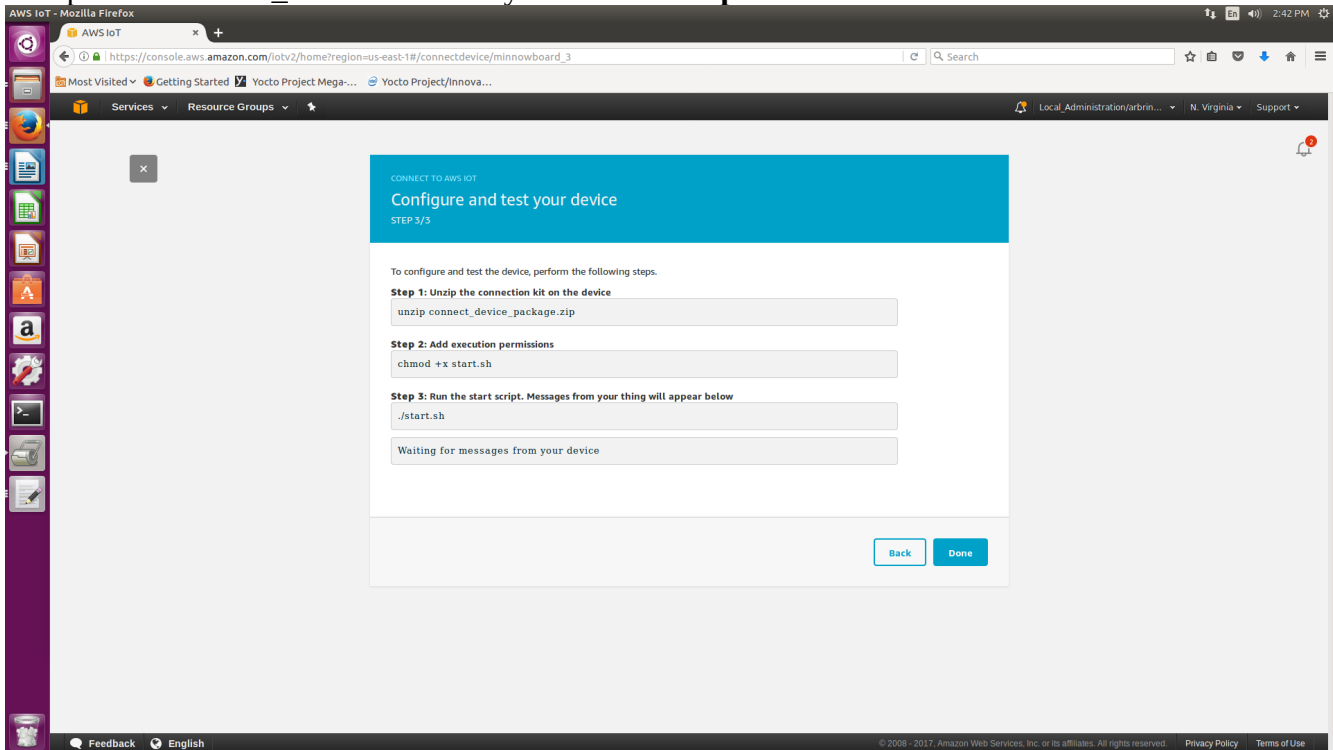


Follow the instructions on this page. If you unzipped the folder before copying the files, over, you can skip step 1. Before step 2, ensure that you're in the connect_device_package folder. And step 3 will not work behind a corporate firewall, so ensure that you are connected to an external connection before proceeding with step 3.

The page should update to look like this after you run the start script and are connected, and you can send a message to the device that will show up on your console:

CONNECT TO AWS IOT
## Configure and test your device
STEP 3/3

To configure and test the device, perform the following steps.

**Step 1: Unzip the connection kit on the device**
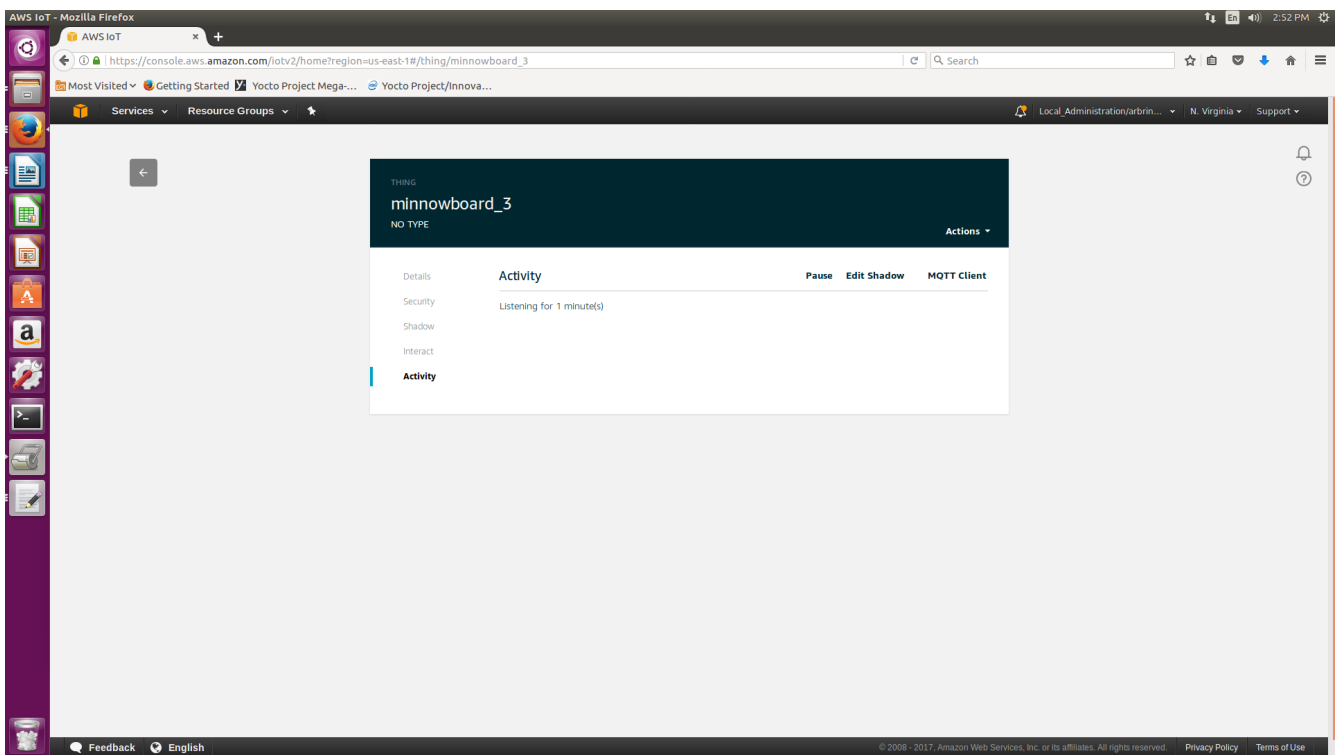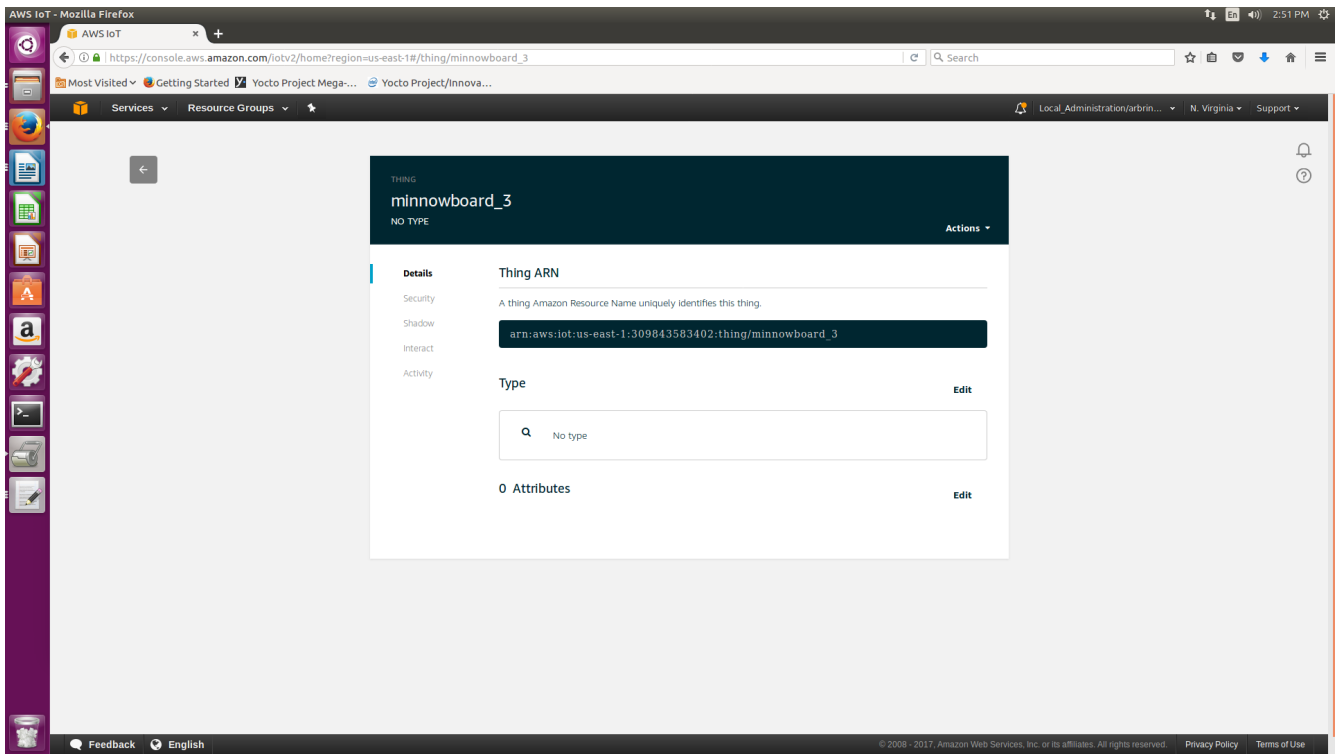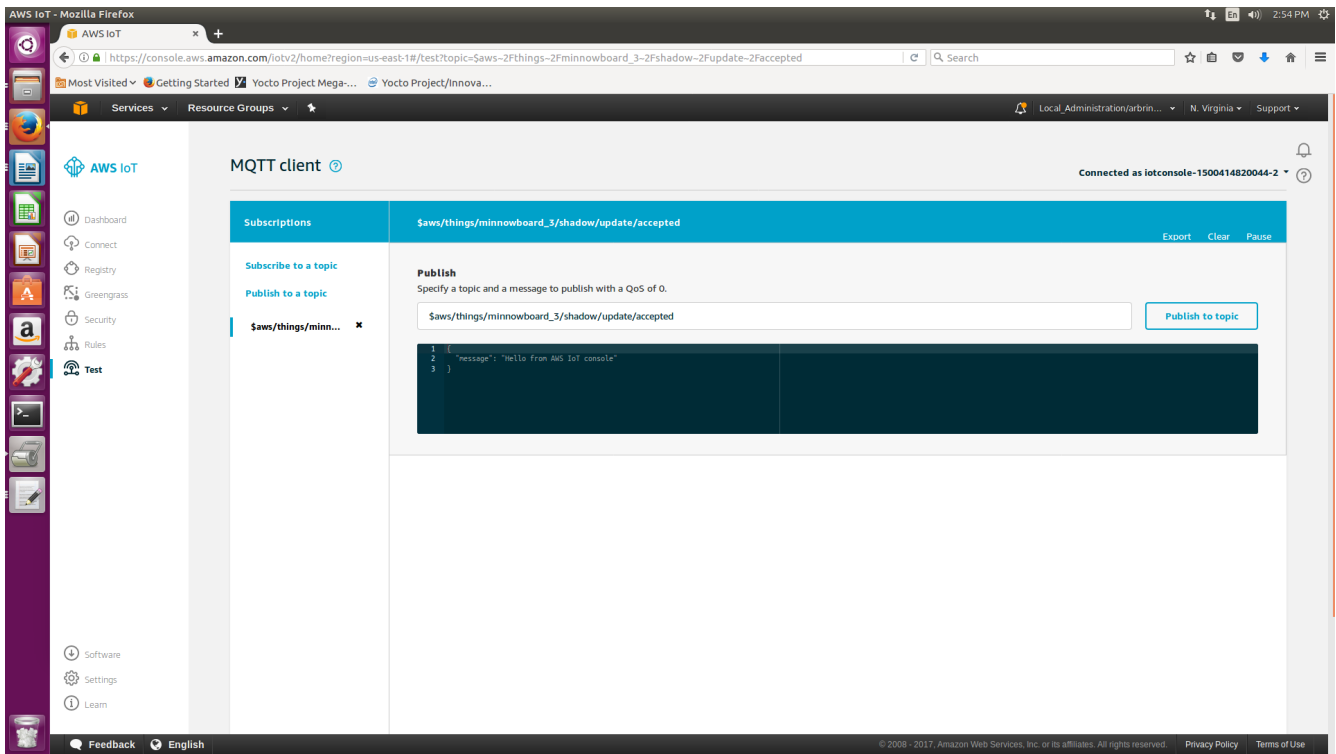
unzip connect_device_package.zip

**Step 2: Add execution permissions**

chmod +x start.sh

**Step 3: Run the start script. Messages from your thing will appear below**

./start.sh

Connected to your device

{"mode1Process":1}

{"mode1Process":1}

{"mode1Process":1}

{"mode1Process":1}

{"mode1Process":1}

{"mode1Process":1}

{"mode1Process":1}

**Step 4: Send a message to the device**

Type a message to send to your device, e.g Hello world!          Send message

Another way to test connectivity is as follows:

Go to the AWS IoT page, go to Registry/Things, and then click on the Thing you just created.

AWS IoT

## Things

Search things          Create

Dashboard
Connect
**Registry**
  Things
  Types
Greengrass
Security
Rules
Test

minnowboard_3
NO TYPE

minnowboard_1
NO TYPE

minnowboard_2
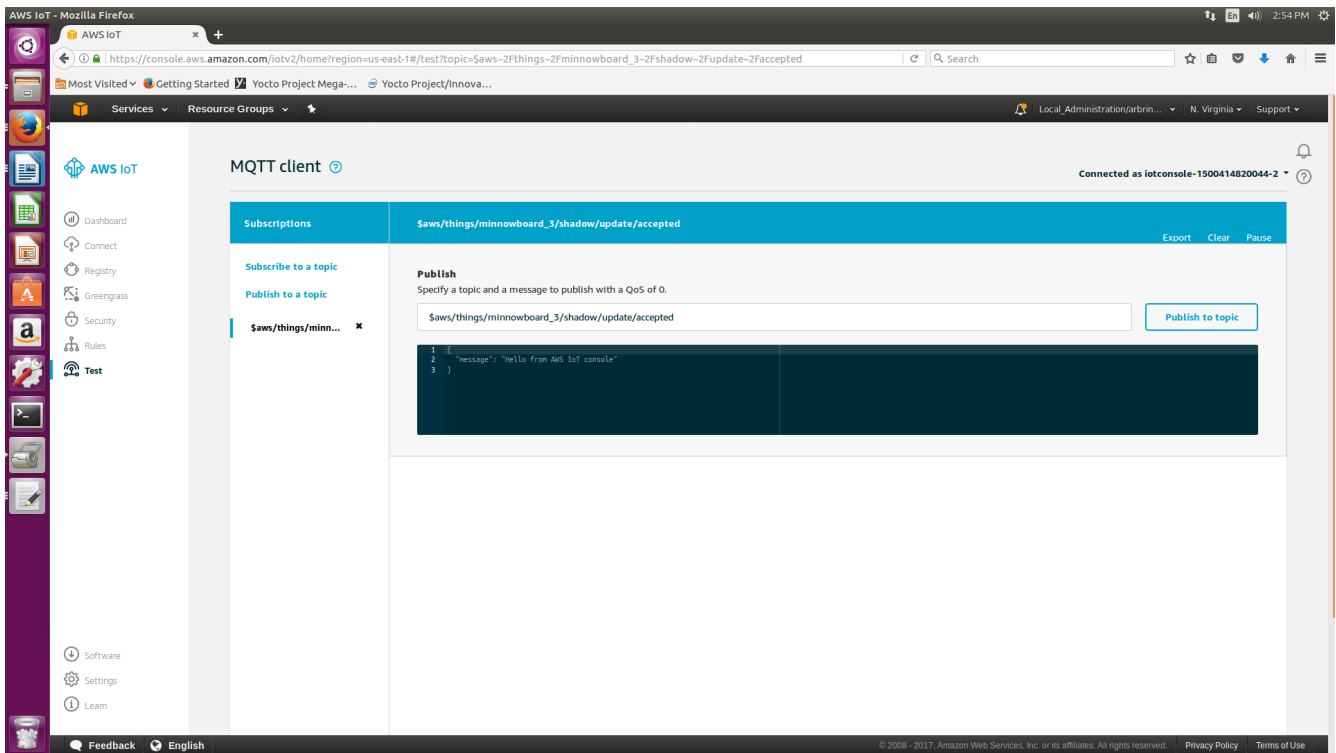NO TYPE

Software
Settings
Learn
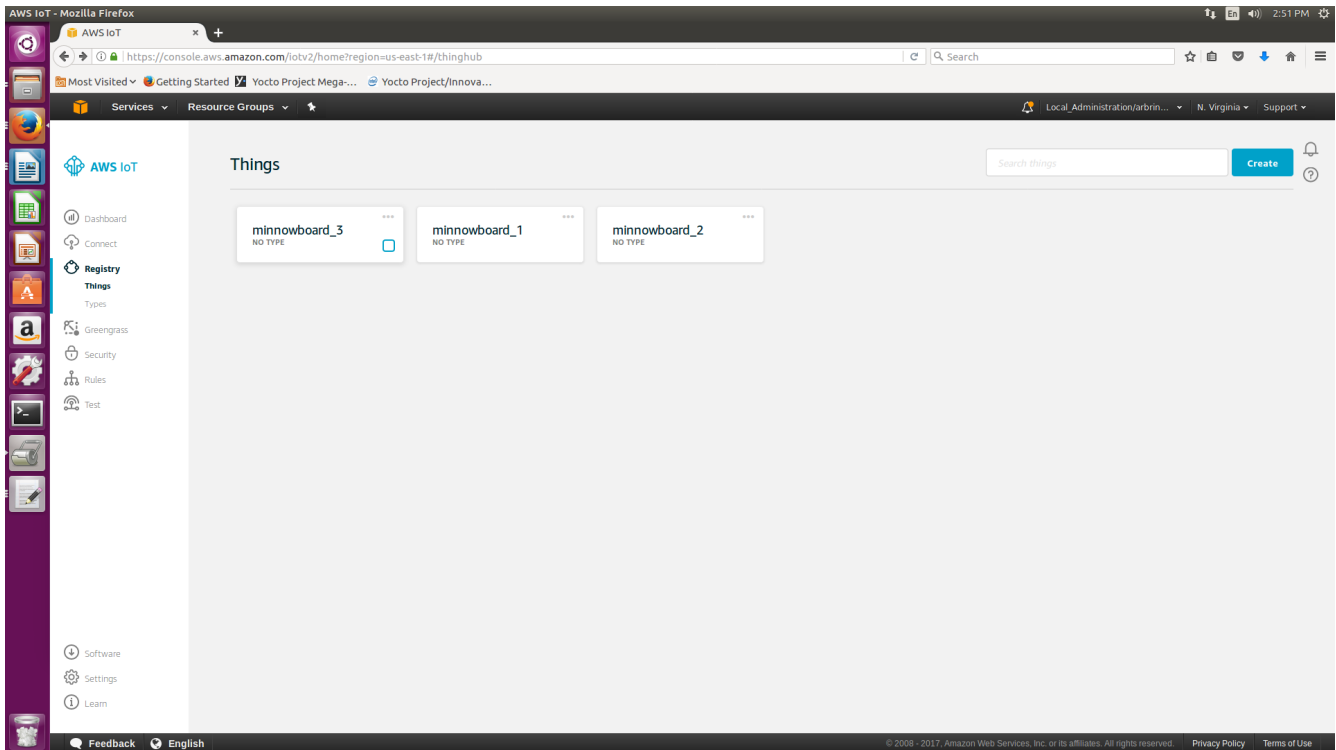
Click on **Activity** and then **MQTT Client**. You'll get to this page:

Click on **Publish to a topic**.



Under the Publish section, you're asked to specify a topic to publish to. Specify topic_1, as this is the topic that your Thing subscribes to when you run the start script. After specifying topic_1, click **Publish to topic**, and you should see "message":"Hello from AWS IoT console" printed to the screen.

You have now successfully registered you minnowboard as an IoT Thing.