

Creating a device on AWS

Sign into AWS

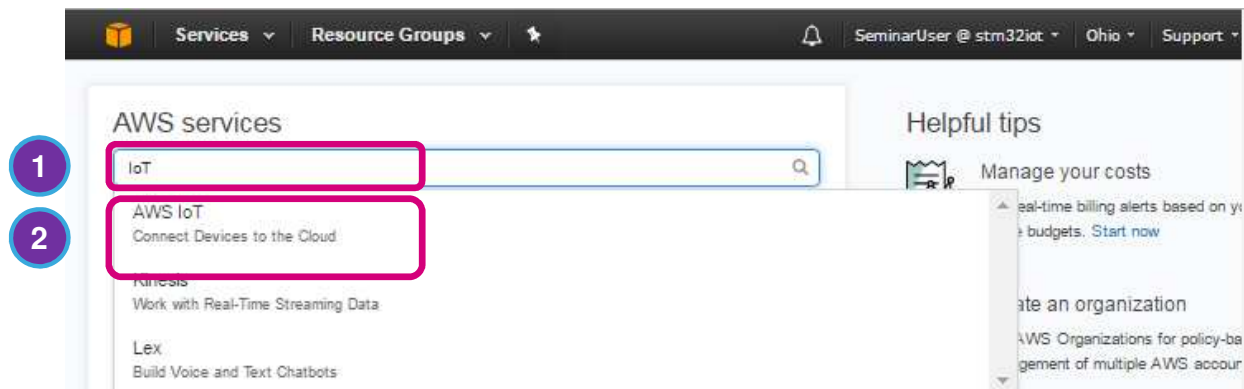
- Sign in to AWS IoT

aws.amazon.com/iot

Open AWS IoT Service

3

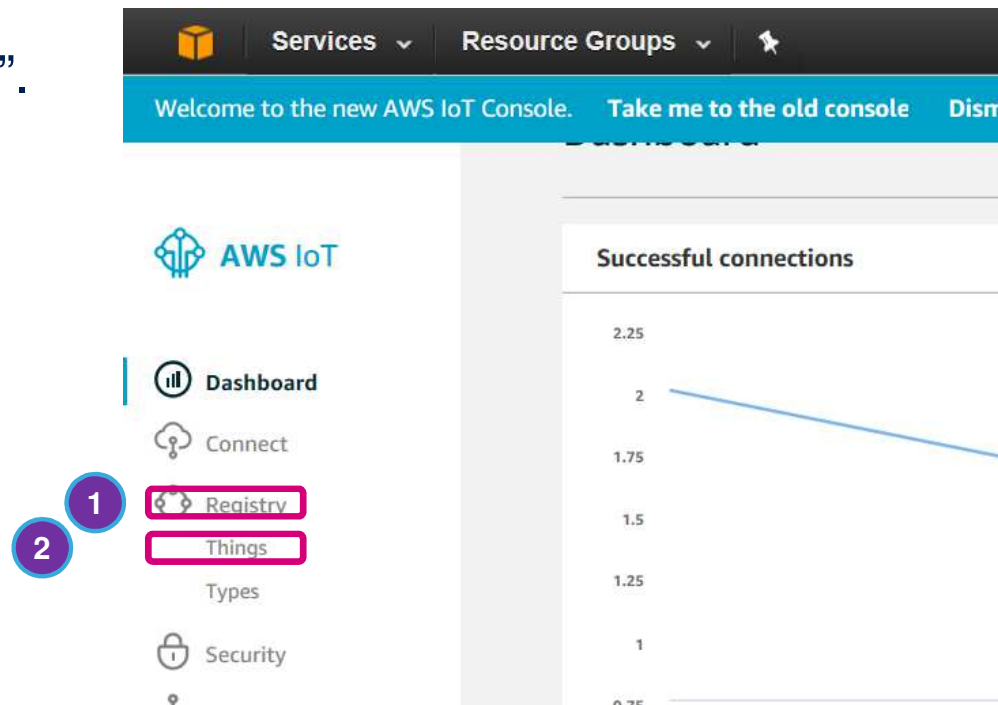
1. Connect to the AWS IoT service by typing AWS IoT in the AWS services search bar.
2. Click on AWS IoT.



Create a thing (1/3)

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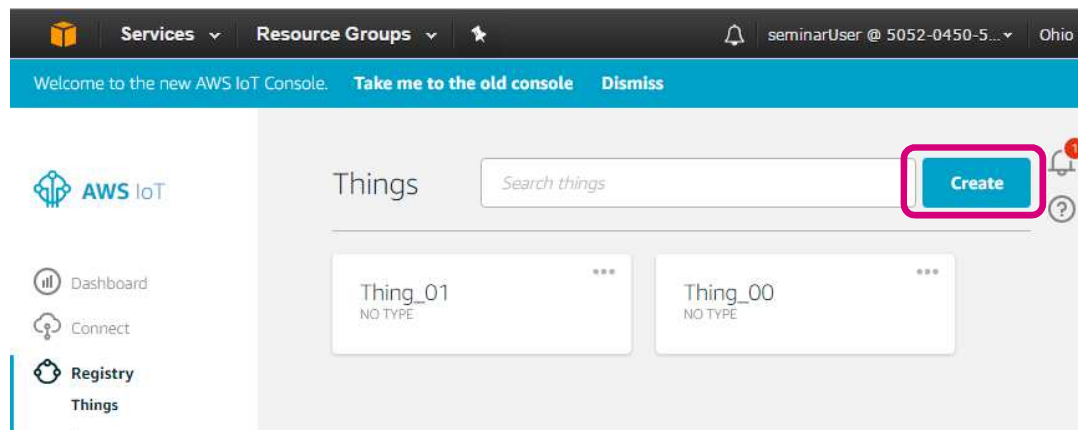
1. Start creating your device by selecting “Registry”.
2. Then select “Things”.



Create a thing (2/3)

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- Click the “Create” button on the top right.



Create a thing (3/3)

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1. Name your Thing. (You need to remember your thing name as it will be used later)
2. Click “Create thing”.

← step creates an entry in the thing registry and a thing shadow for your device.

Name

1

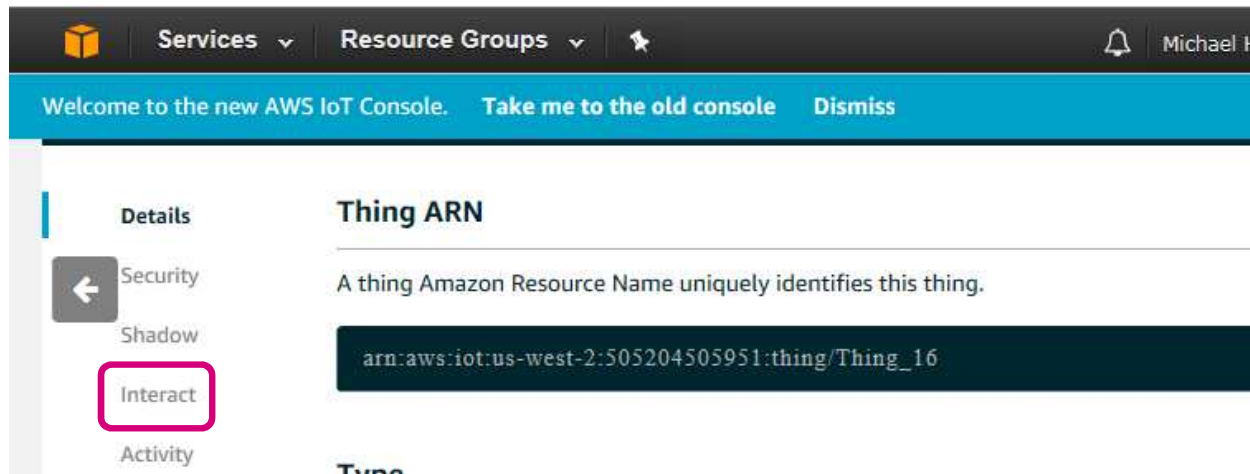
Show options ▾

2

Create a certificate (1/4)

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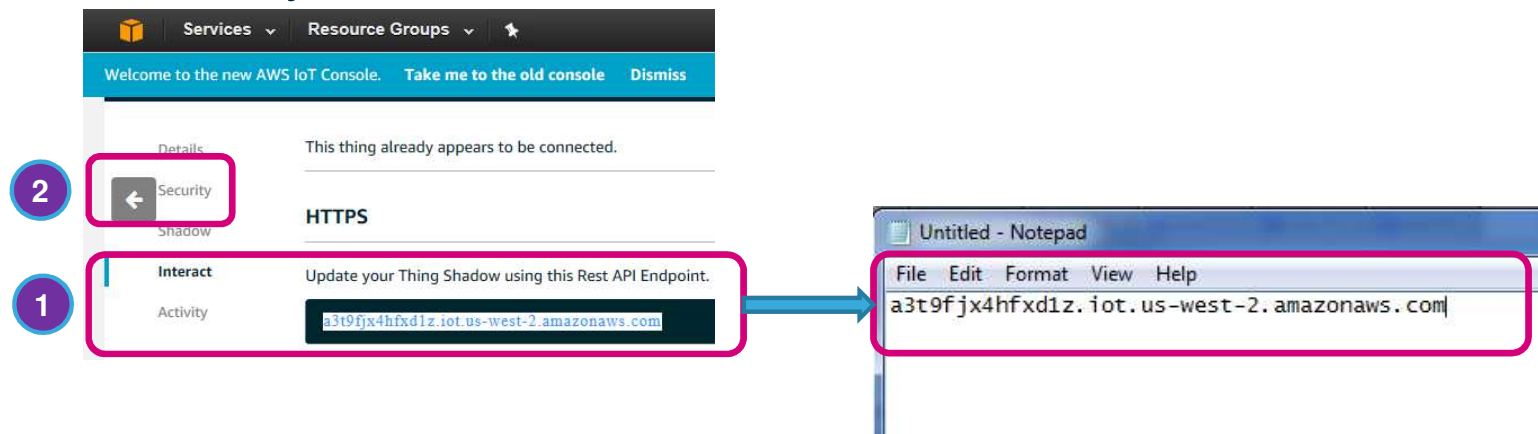
- Your thing has now been created. Select “Interact”.



Create a certificate (2/4)

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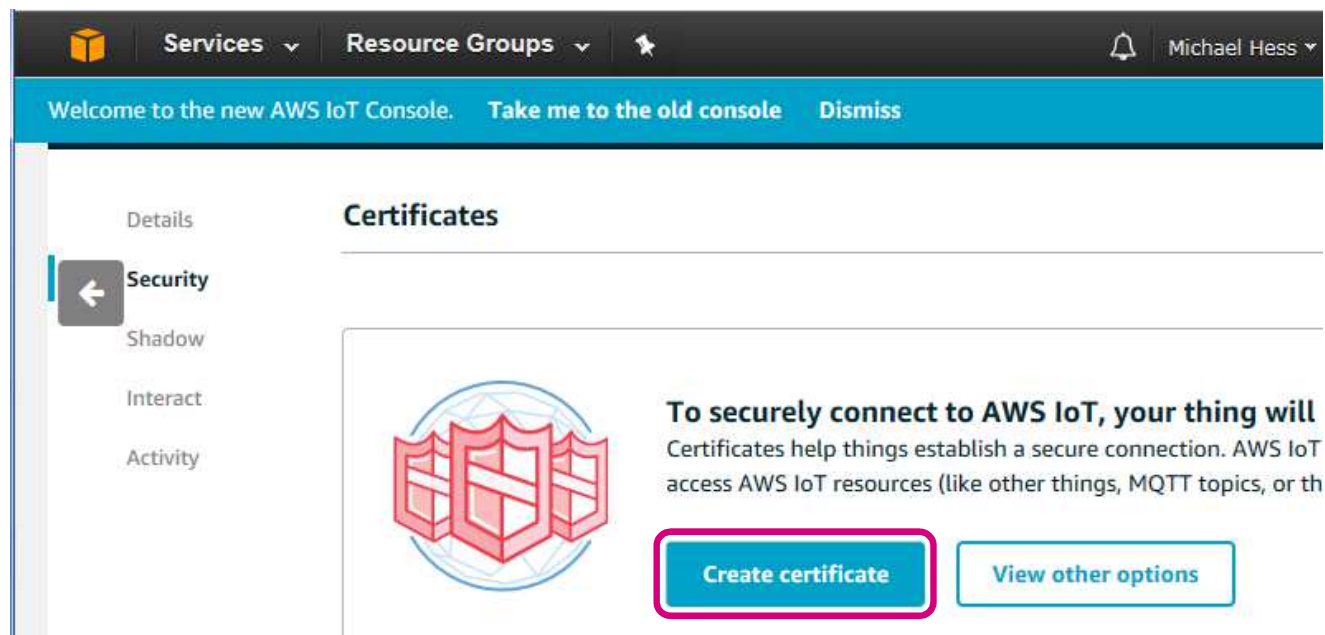
1. Copy the Rest API Endpoint information to a text file. We'll need this later during the firmware configuration.
2. Then, click "Security"



Create a certificate (3/4)

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- Click “Create certificate”.



Create a certificate (4/4)

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1. Copy the certificate number to text file (just the number not the full name),
2. Save the following files:
 - A. Thing certificate (xxxxx.cert.pem),
 - B. Private key (xxxxx.private.key),
 - C. root CA (Right click on Download then save link as),
3. Click Activate to activate the certificate.

Untitled - Notepad

File Edit Format View Help

a3t9fjx4hfxdlz.iot.us-west-2.amazonaws.com

9ac755a9c7

Services Resource Groups

Welcome to the new AWS IoT Console. Take me to the old console Dismiss

Certificate created!

Download these files and save them in a safe place. Certificates can be retrieved at any time, but private keys cannot be retrieved after you close this page.

In order to connect a device, you need to download the following:

A certificate for this thing	9ac755a9c7.certificate.pem.crt	1	Download	A
A public key	9ac755a9c7.public.key		Download	
A private key	9ac755a9c7.private.key		Download	B

You also need to download a root CA for AWS IoT from Symantec:

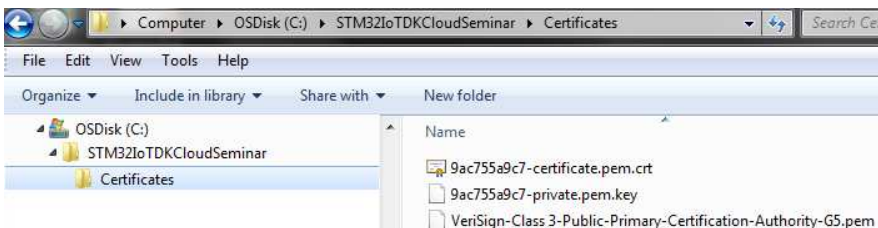
A root CA for AWS IoT

Download

C

Activate

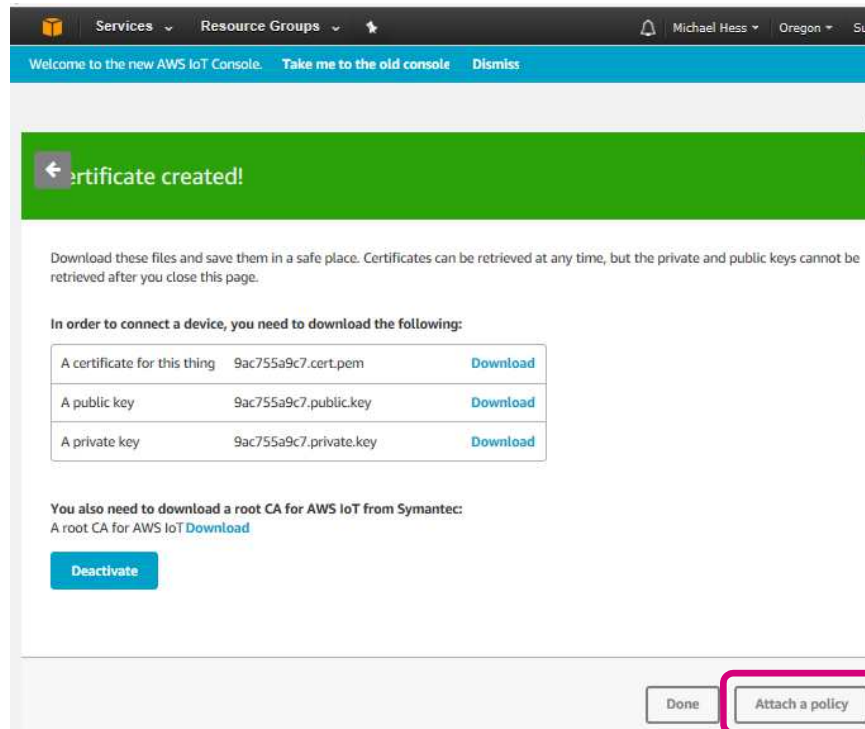
3



Create a policy (1/4)

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- Attach a policy to your device by clicking “Attach a policy”.



The screenshot shows the AWS IoT console interface. At the top, there's a navigation bar with 'Services' and 'Resource Groups' dropdowns, and a user profile for 'Michael Hess' in the 'Oregon' region. Below the navigation bar, a blue banner reads 'Welcome to the new AWS IoT Console. Take me to the old console Dismiss'. A green success message box says 'Certificate created!'. Below this, a warning message states: 'Download these files and save them in a safe place. Certificates can be retrieved at any time, but the private and public keys cannot be retrieved after you close this page.' A section titled 'In order to connect a device, you need to download the following:' contains a table with three rows: 'A certificate for this thing' with file '9ac755a9c7.cert.pem' and a 'Download' link; 'A public key' with file '9ac755a9c7.public.key' and a 'Download' link; and 'A private key' with file '9ac755a9c7.private.key' and a 'Download' link. Below the table, a message says 'You also need to download a root CA for AWS IoT from Symantec: A root CA for AWS IoT' with a 'Download' link. A 'Deactivate' button is visible. At the bottom right, there are two buttons: 'Done' and 'Attach a policy', with the latter highlighted by a red rectangle.

In order to connect a device, you need to download the following:		
A certificate for this thing	9ac755a9c7.cert.pem	Download
A public key	9ac755a9c7.public.key	Download
A private key	9ac755a9c7.private.key	Download

You also need to download a root CA for AWS IoT from Symantec:
A root CA for AWS IoT [Download](#)

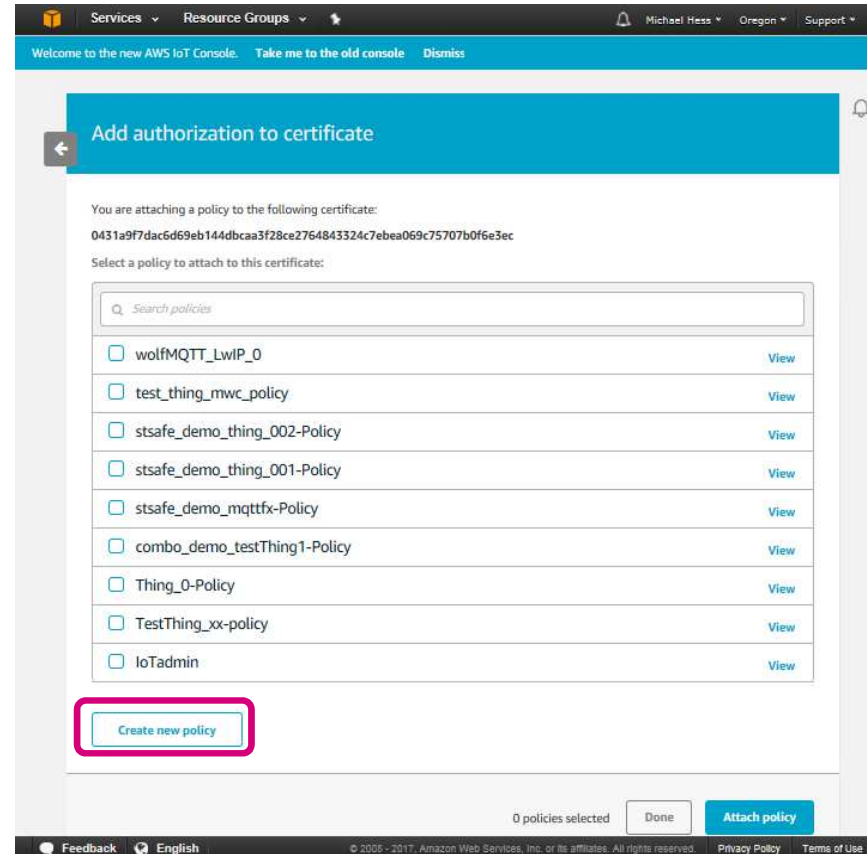
[Deactivate](#)

[Done](#) [Attach a policy](#)

Create a policy (2/4)

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- Click “Create new policy”.



Create a policy (3/4) 13

1. Name your policy
2. Under Action, type “iot:”
3. Under Resource ARN, type “*”
4. Click “Allow”
5. Click “Create”.

The screenshot shows the 'Create a policy' page in the AWS IoT console. The page has a blue header with the title 'Create a policy' and a back arrow. Below the header, there is a text box for the policy name, which contains 'Thing_16_Policy'. This is step 1. Below the name field, there is a section titled 'Add statements' with a sub-header 'Policy statements define the types of actions that can be performed by a resource.' and a link to 'Advanced mode'. This section contains three fields: 'Action' with the value 'iot:', 'Resource ARN' with the value '*', and 'Effect' with the 'Allow' radio button selected. This is step 2. Below the 'Add statements' section, there is an 'Add statement' button. This is step 3. At the bottom right of the page, there is a 'Create' button. This is step 4. The footer of the page contains links for 'Feedback', 'English', and '© 2008 - 2017, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and links for 'Privacy', 'Policy', and 'Terms of Use'. This is step 5.

Services Resource Groups

Welcome to the new AWS IoT Console. [Take me to the old console](#) [Dismiss](#)

Create a policy

Create a policy to define a set of authorized actions. You can authorize actions on one or more resources (things, topics, topic filters).

Name:

Add statements

Policy statements define the types of actions that can be performed by a resource. [Advanced mode](#)

Action	<input "="" type="text" value="iot:"/>
Resource ARN	<input type="text" value="*"/>
Effect	<input checked="" type="radio"/> Allow <input type="radio"/> Deny Remove

[Add statement](#)

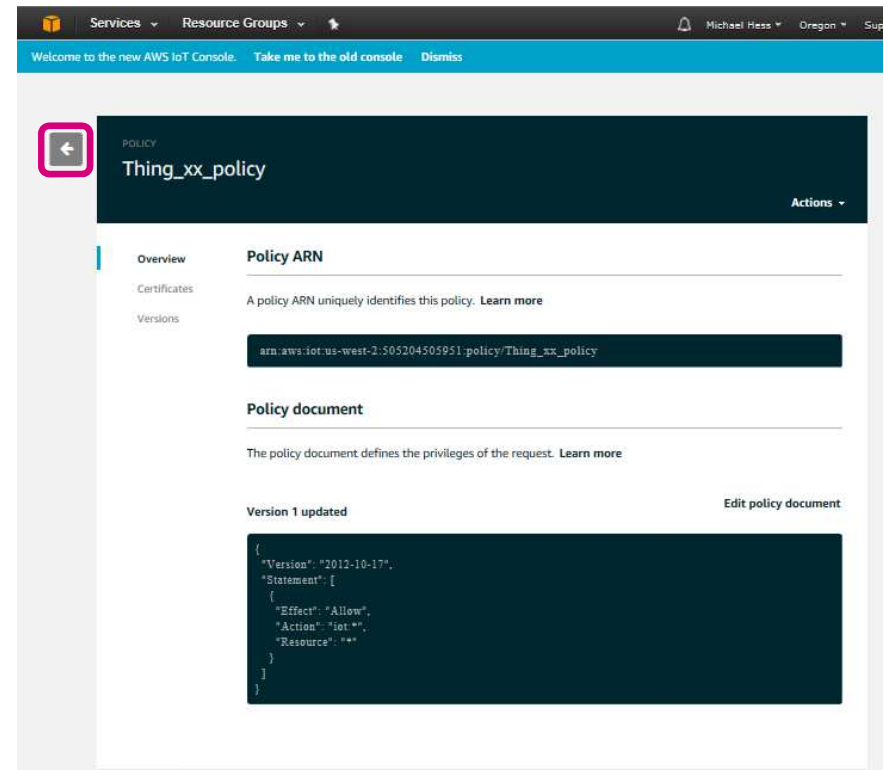
[Create](#)

Feedback English © 2008 - 2017, Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy](#) [Policy](#) [Terms of Use](#)

Create a policy (4/4)

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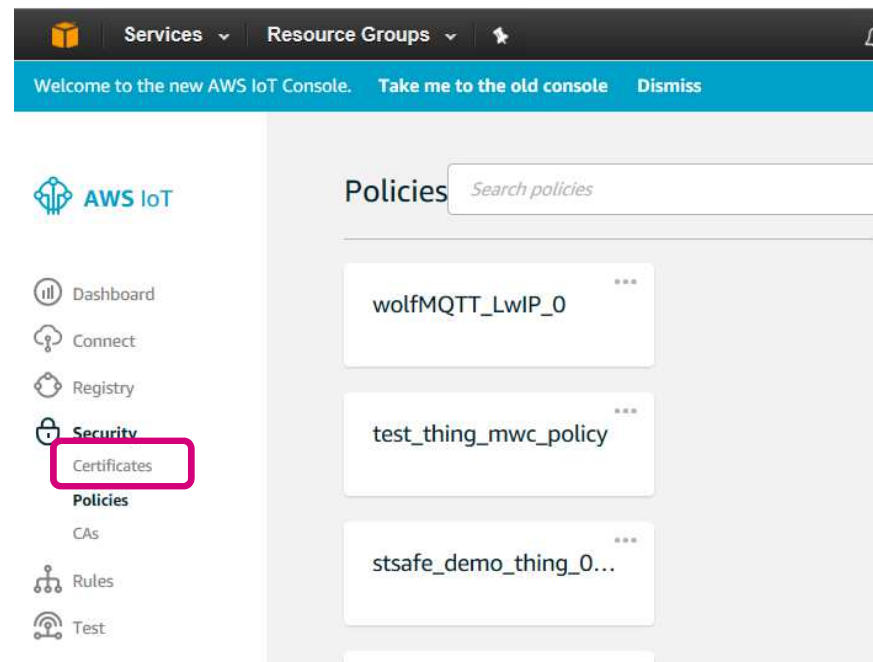
- Your policy has now been created.
- Click the gray arrow.



Attach a policy (1/5)

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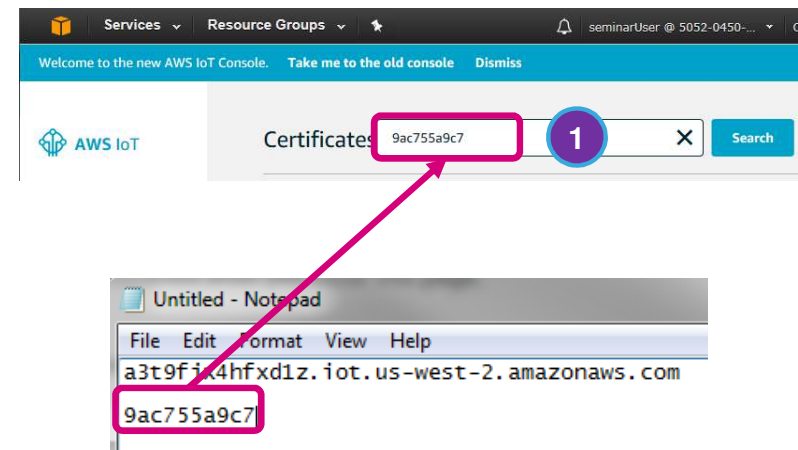
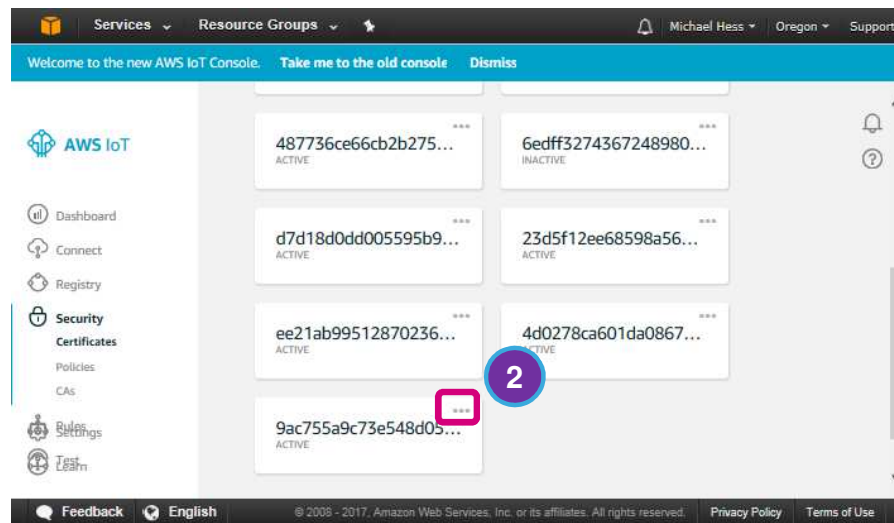
- Select “Certificates” under the “Security” menu.



Attach a policy (2/5)

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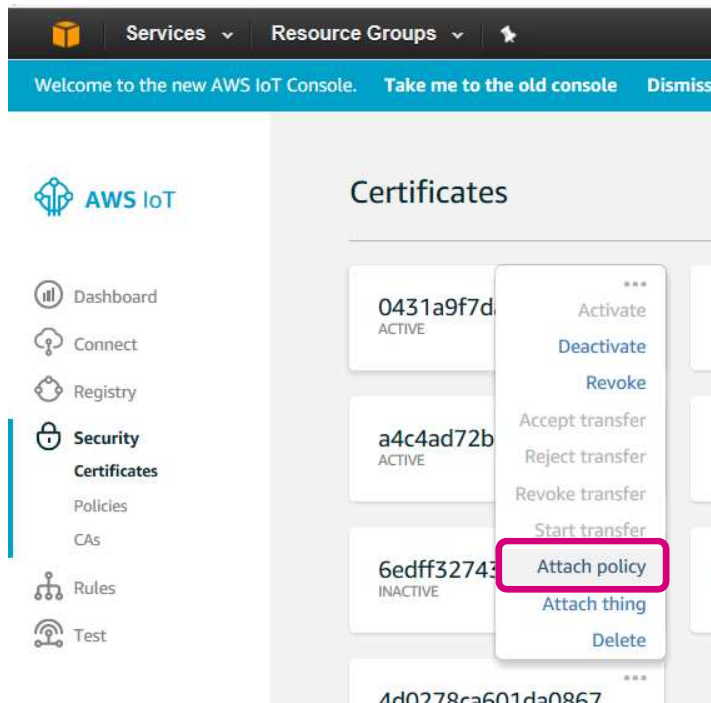
1. Use the search bar to locate your certificate using the certificate number.
2. Click the “...” in the top right corner of your certificate.



Attach a policy (3/5)

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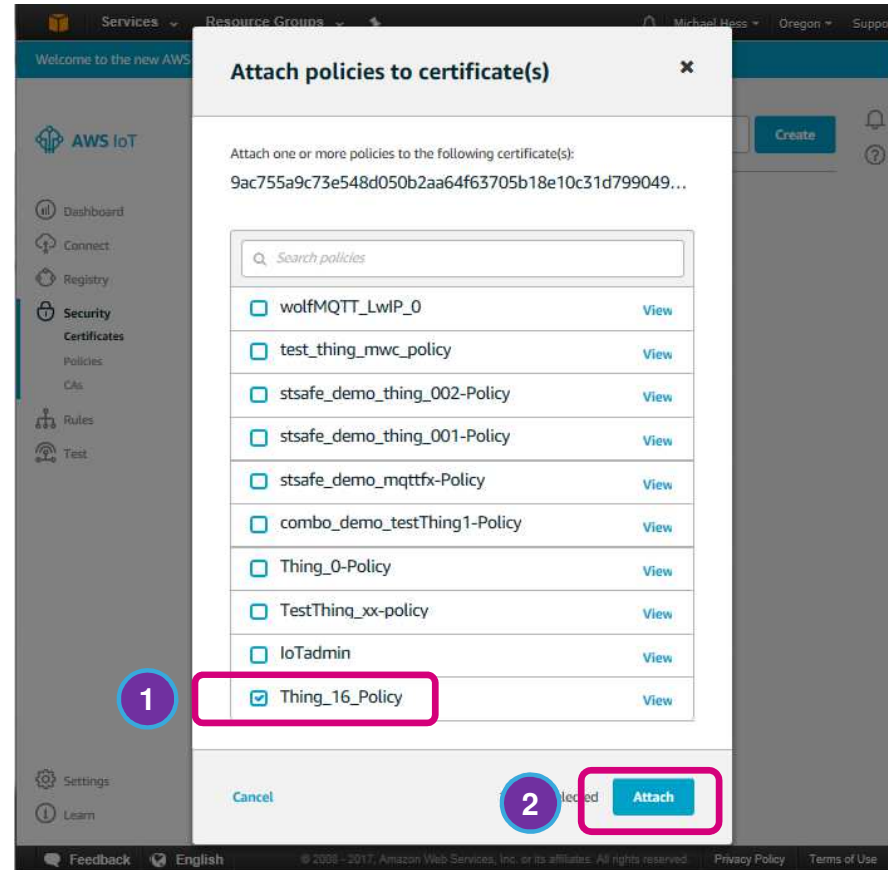
- Click “Attach policy”.



Attach a policy (4/5)

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1. Select your policy,
2. Click “Attach”.



Attach a policy (5/5)

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- Your policy has now been attached to your device certificate.
- We are done with the Thing creation on AWS.
- Next is Firmware configuration.

