

Step 1

From the AWS *region* selector *in* the navigation bar (top right corner), choose the US East 1 (**N. Virginia**) Region. **Click Here** to go to AWS IoT Console we will select **Things** under the **Manage** option from the Sidebar and click **Create** (top right corner).

The screenshot displays the AWS IoT console interface. At the top, the navigation bar shows the AWS logo, 'Services', 'Resource Groups', and the selected region 'N. Virginia'. The left sidebar contains navigation options: Monitor, Onboard, Manage, Things, Types, Thing groups, Billing Groups, Jobs, Tunnels, Greengrass, Secure, Defend, Act, Test, Software, Settings, and Learn. The 'Manage' and 'Things' options are highlighted with red boxes. The main content area is titled 'Things' and features a search bar, a 'Fleet Indexing' button, and a 'Create' button. Below these are three device cards: 'car2 NO TYPE', 'car1 NO TYPE', and 'test ESP32'. A teal banner at the bottom contains the text 'We've added a new, powerful fleet index' and a 'Next' button.

Step 2

Click **Create a single thing** here.

Creating AWS IoT things

An IoT thing is a representation and record of your physical device in the cloud. Any physical device needs a thing record in order to work with AWS IoT. [Learn more](#).

Register a single AWS IoT thing

Create a thing in your registry

Create a single thing

Bulk register many AWS IoT things

Create things in your registry for a large number of devices already using AWS IoT, or register devices so they are ready to connect to AWS IoT.

Create many things

Cancel

Create a single thing

Step 3

Give a name for example; **ESP32** and keep everything Default & click **Next**.

CREATE A THING STEP 1/3

Add your device to the thing registry

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

Name

Apply a type to this thing

Using a thing type simplifies device management by providing consistent registry data for things that share a type. Types provide things with a common set of attributes, which describe the identity and capabilities of your device, and a description.

Thing Type

Add this thing to a group

Adding your thing to a group allows you to manage devices remotely using jobs.

Thing Group

Set searchable thing attributes (optional)

Enter a value for one or more of these attributes so that you can search for your things in the registry.

Attribute key <input type="text" value="Provide an attribute key, e.g. Manufacturer"/>	Value <input type="text" value="Provide an attribute value, e.g. Acme-Corporation"/>	<input type="button" value="Clear"/>
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Show thing shadow

Step 4

Click **Create Certificate** here.

CREATE A THING

Add a certificate for your thing

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A certificate is used to authenticate your device's connection to AWS IoT.

One-click certificate creation (recommended)

This will generate a certificate, public key, and private key using AWS IoT's certificate authority.

Create certificate

Create with CSR

Upload your own certificate signing request (CSR) based on a private key you own.

↑ Create with CSR

Use my certificate

Register your CA certificate and use your own certificates for one or many devices.

Get started

Skip certificate and create thing

You will need to add a certificate to your thing later before your device can connect to AWS IoT.

Create thing without certificate

Step 5

We will download the **Thing Certificate** and the **Private Key** and keep it safe as we need it through out the series (No need to download the **Public Key**), select **Activate for sure** and click **Attach a policy** (Note: **Don't press Done** or else you need to repeat the step).

Certificate created!

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.

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

A certificate for this thing	0c9991e744.cert.pem	Download	Thing Certificate
A public key	0c9991e744.public.key	Download	
A private key	0c9991e744.private.key	Download	Private Key

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

A root CA for AWS IoT [Download](#)

[Activate](#)

[Cancel](#)

[Done](#)

[Attach a policy](#)

Step 6

Select the policy (**ESP32Policy**) created in the previous section and Click **Register Thing**. Thus, we are done provisioning the digital representation of ESP32 board in AWS

CREATE A THING

Add a policy for your thing

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Select a policy to attach to this certificate:

<input type="checkbox"/> policy_test	View
<input type="checkbox"/> edXPolicy	View
<input type="checkbox"/> MyRaspberryPi-Policy	View
<input checked="" type="checkbox"/> ESP32Policy	View
<input type="checkbox"/> ESP32-Policy	View

1 policy selected

Register Thing