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STSAFE – Online certificates distribution

USER MANUAL v3

Agenda

1 Accessing the platform

2 The platform

3 Attachment to AWS account

4 Attachment to Azure account

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Accessing the platform

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Step 1 - Scan QR Code

1. Open the **camera app** on your smartphone or tablet.

2. Point the camera at the **QR code** on the STSAFE chips reel.

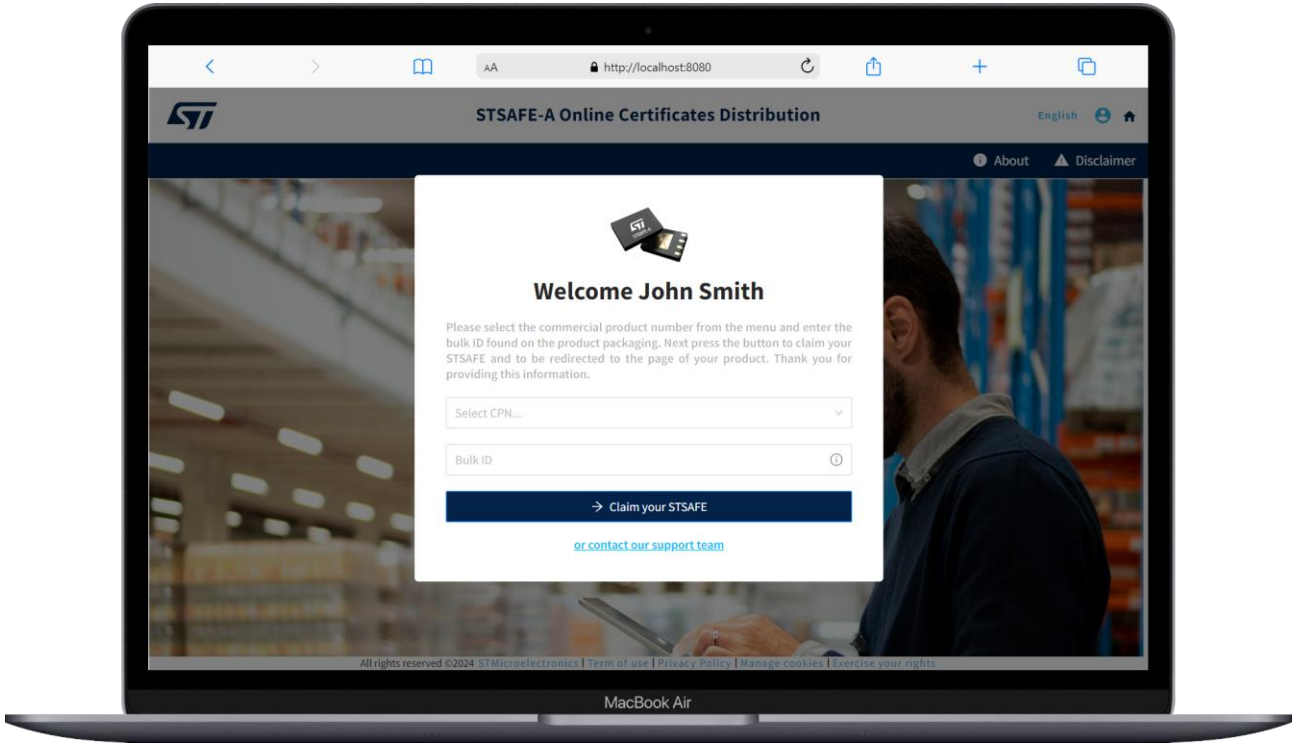
3. Tap on the notification or link to open the **landing page for the product**.

This is a QR code sample – do not use it

Step 2 – Or claim directly

- You can **claim your product directly** using the form available on:

https://eds.st.com/stsafe/?claim=1



STSAFE-A Online Certificates Distribution

Welcome John Smith

Please select the commercial product number from the menu and enter the bulk ID found on the product packaging. Next press the button to claim your STSAFE and to be redirected to the page of your product. Thank you for providing this information.

Select CPN...

Bulk ID

→ Claim your STSAFE

or contact our support team

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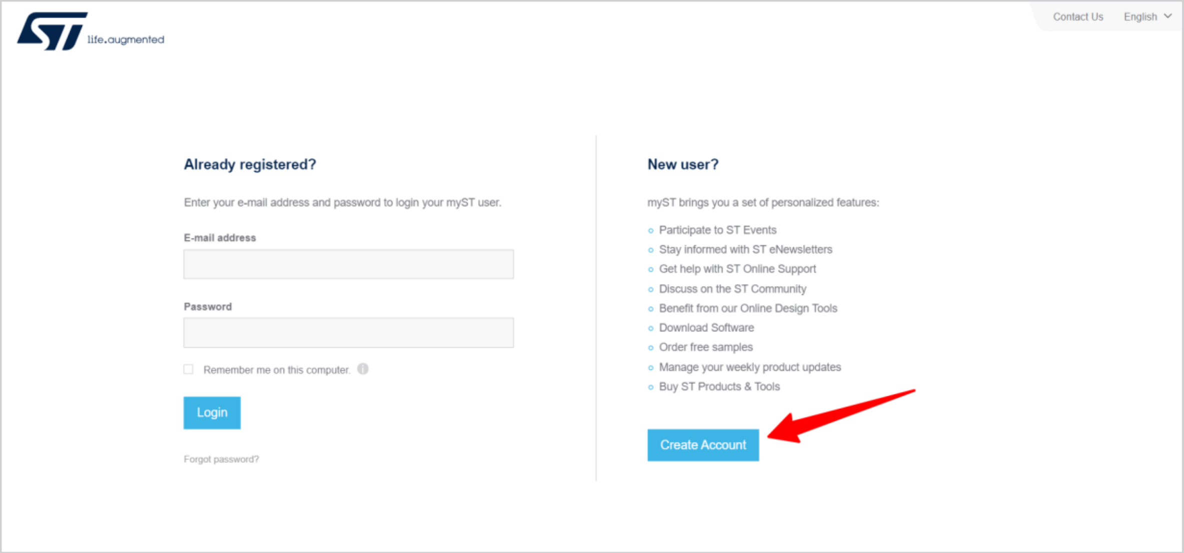
Step 3 – Log onto st.com

- After tapping on the link, you will be **redirected to the landing page** for the product on st.com

- To access the full range of features and resources on the landing page, you will need to **create a new account or login** if you already have an account.



Already registered?

Enter your e-mail address and password to login your myST user.

E-mail address

Password

□ Remember me on this computer.

New user?

myST brings you a set of personalized features:

- Participate to ST Events
- Stay informed with ST eNewsletters
- Get help with ST Online Support
- Discuss on the ST Community
- Benefit from our Online Design Tools
- Download Software
- Order free samples
- Manage your weekly product updates
- Buy ST Products & Tools

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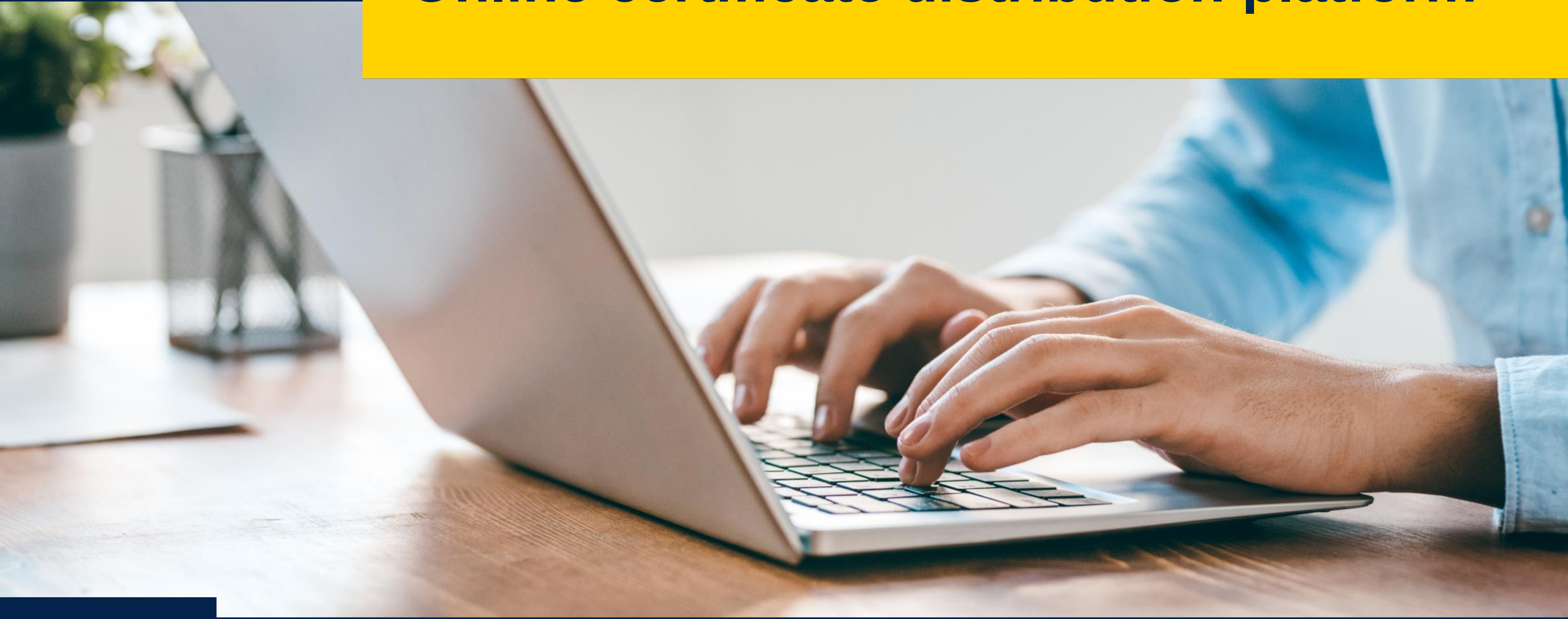
Online certificate distribution platform



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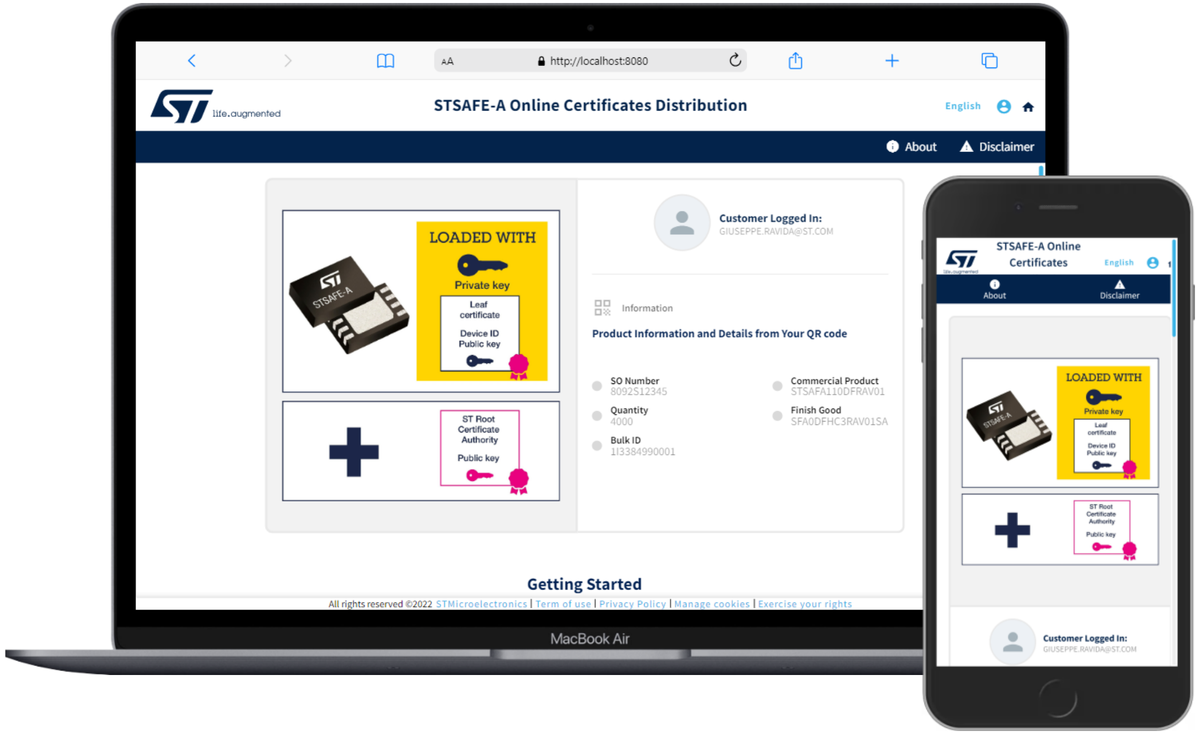
Overview of the platform

- The product landing page (desktop or mobile) is divided into **four main sections**:
  - QR code information details
  - Getting started guide
  - Certificates downloads and email sending
  - Downloads history



STSAFE-A Online Certificates Distribution

Customer Logged In:
GIUSEPPE.RAVIDA@ST.COM

Product Information and Details from Your QR code

SO Number
8092S12345

Quantity
4000

Bulk ID
1I3384990001

Commercial Product
STSAFA110DFRAV01

Finish Good
SFA0DFHC3RAV01SA

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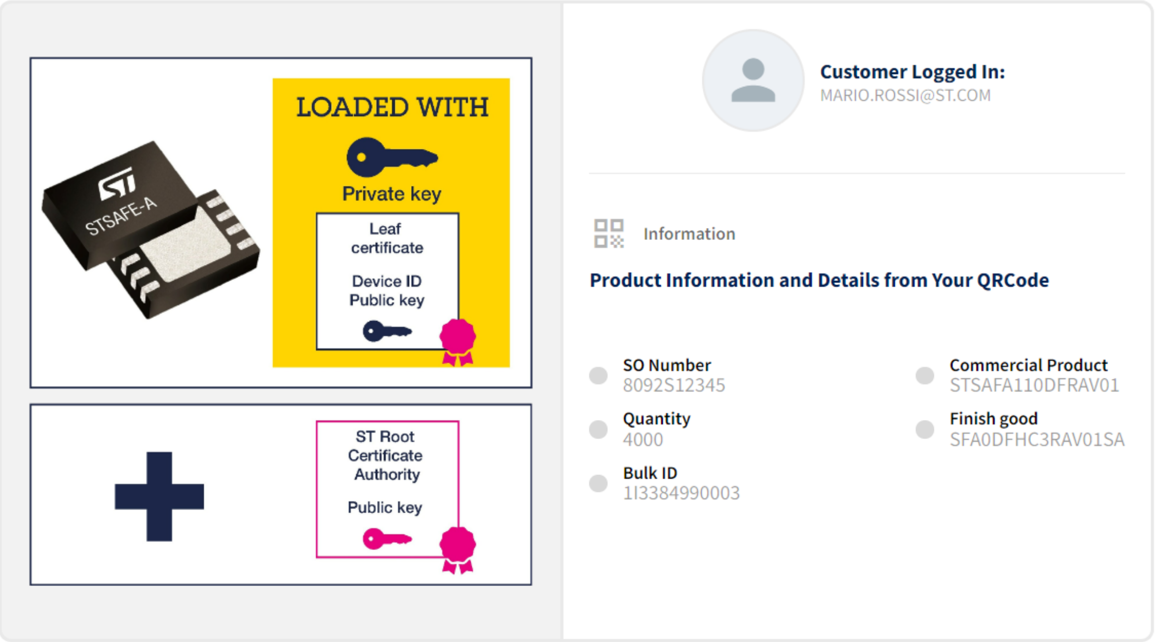
QR Code information

This section shows specific details regarding your product, including:

- SO Number
- Commercial Product
- Quantity
- Bulk ID



Customer Logged In:
MARIO.ROSSI@ST.COM

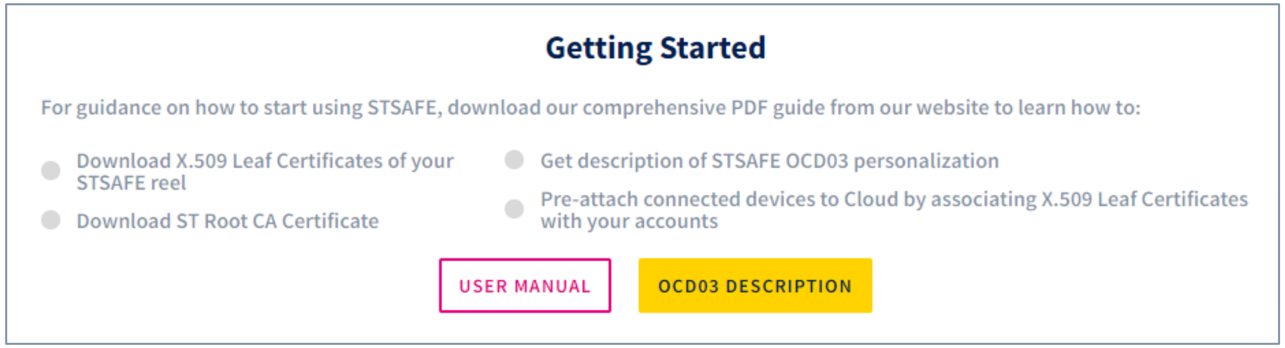
Information

Product Information and Details from Your QRCode

SO Number 8092S12345	Commercial Product STSAFA110DFRAV01
Quantity 4000	Finish good SFA0DFHC3RAV01SA
Bulk ID 113384990003	

Getting started

- This section shows a starting point and valuable insights on **A110** and **SPL03**
- Here, the user can **download** our comprehensive **PDF** guide



Getting Started

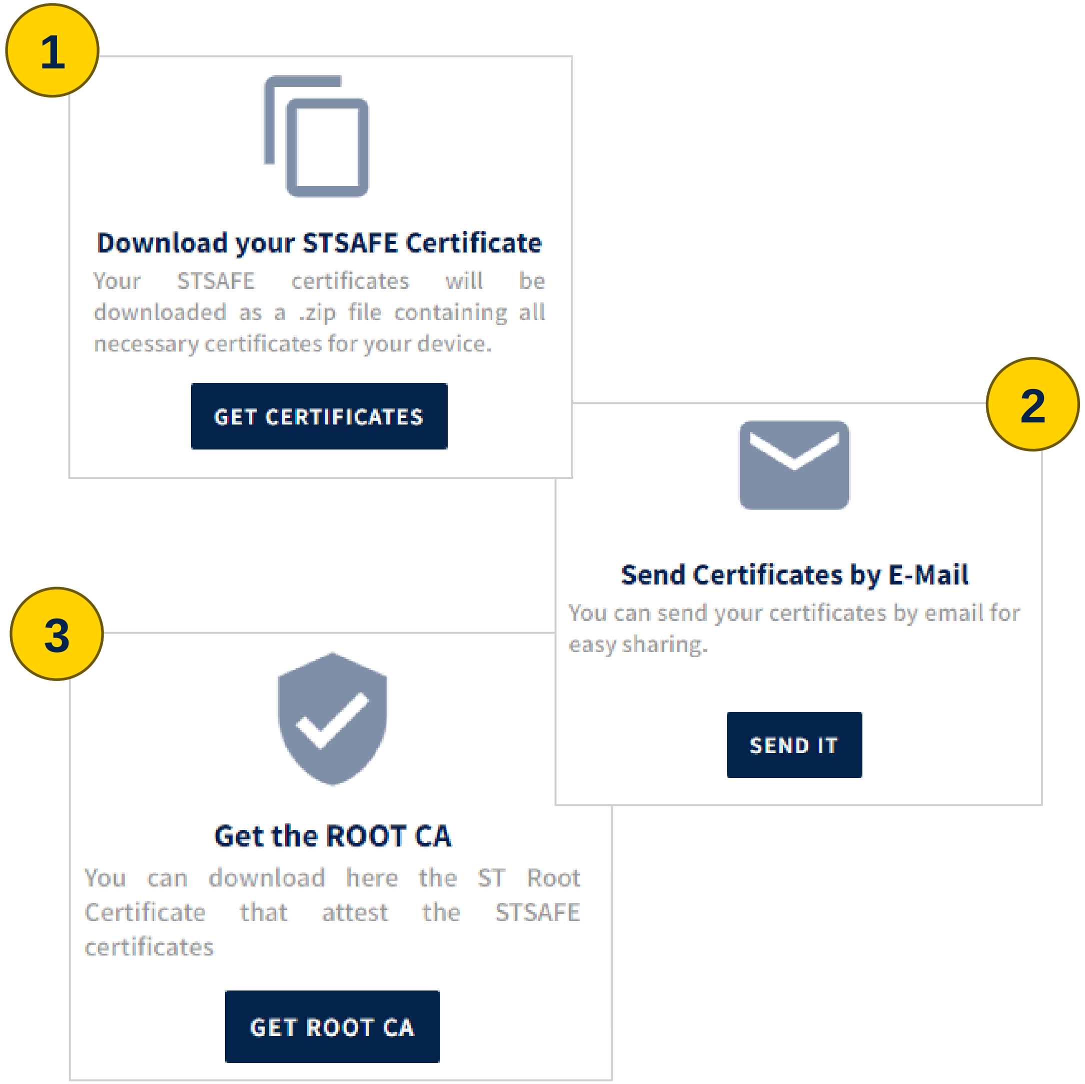
For guidance on how to start using STSAFE, download our comprehensive PDF guide from our website to learn how to:

- Download X.509 Leaf Certificates of your STSAFE reel
- Download ST Root CA Certificate
- Get description of STSAFE OCD03 personalization
- Pre-attach connected devices to Cloud by associating X.509 Leaf Certificates with your accounts

Download certificates

- In this interactive section of the page, you can:

1. Download the certificates .zip file
2. Send it to your email address
3. Download the Root Certification Authority for STSAFE certificates



Download your STSAFE Certificate

Your STSAFE certificates will be downloaded as a .zip file containing all necessary certificates for your device.

Send Certificates by E-Mail

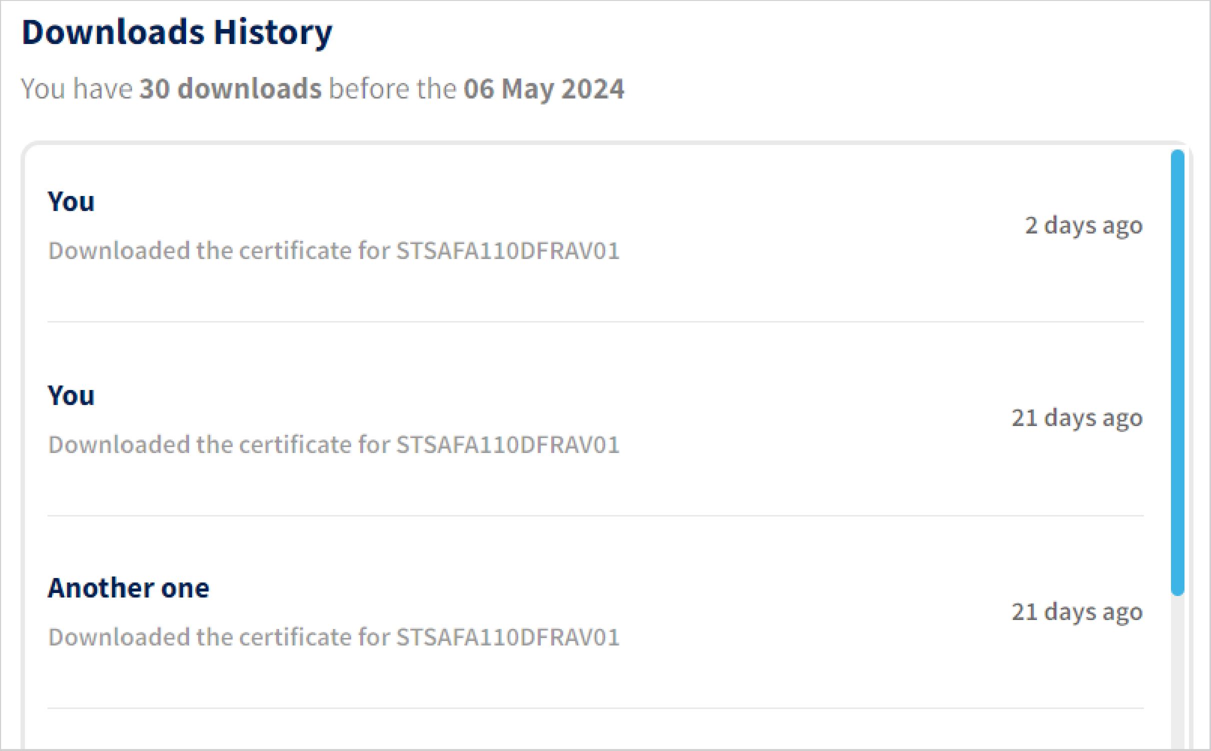
You can send your certificates by email for easy sharing.

Get the ROOT CA

You can download here the ST Root Certificate that attest the STSAFE certificates

Downloads History

- The Downloads History section displays a record of **all downloads** completed for a specific part number
- Each item in the Downloads History section includes the **user reference and the date** of the download, displayed in days since the download occurred



Downloads History

You have **30 downloads** before the **06 May 2024**

You
Downloaded the certificate for STSAFA110DFRAV01
2 days ago

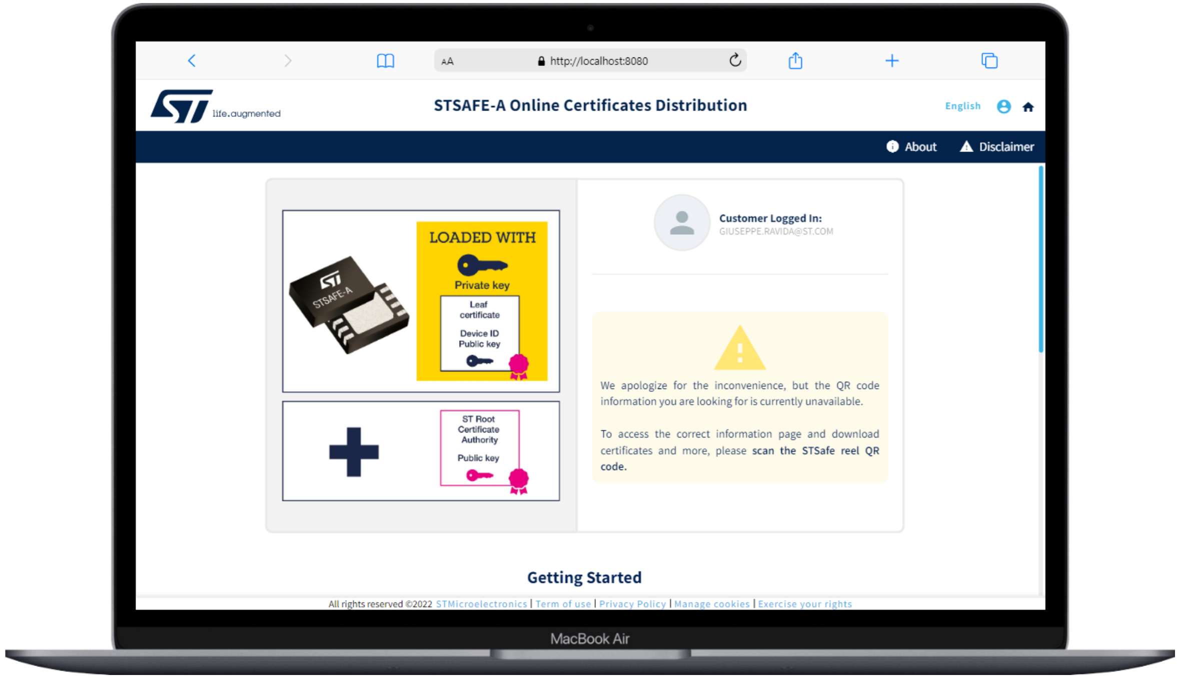
You
Downloaded the certificate for STSAFA110DFRAV01
21 days ago

Another one
Downloaded the certificate for STSAFA110DFRAV01
21 days ago

Errors Page

- If the URL coming from **QR code is corrupted** or something regarding the STSAFE reel is missing, you will land on a generic product page

- You can **download PDF documentation** or **check downloads history** as well



http://localhost:8080

STSAFE-A Online Certificates Distribution

Customer Logged In:
GIUSEPPE.RAVIDA@ST.COM

We apologize for the inconvenience, but the QR code information you are looking for is currently unavailable.

To access the correct information page and download certificates and more, please **scan the STSafe reel QR code.**

Getting Started

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Attachment to AWS account

How to attach objects to AWS IoT Core

Introduction

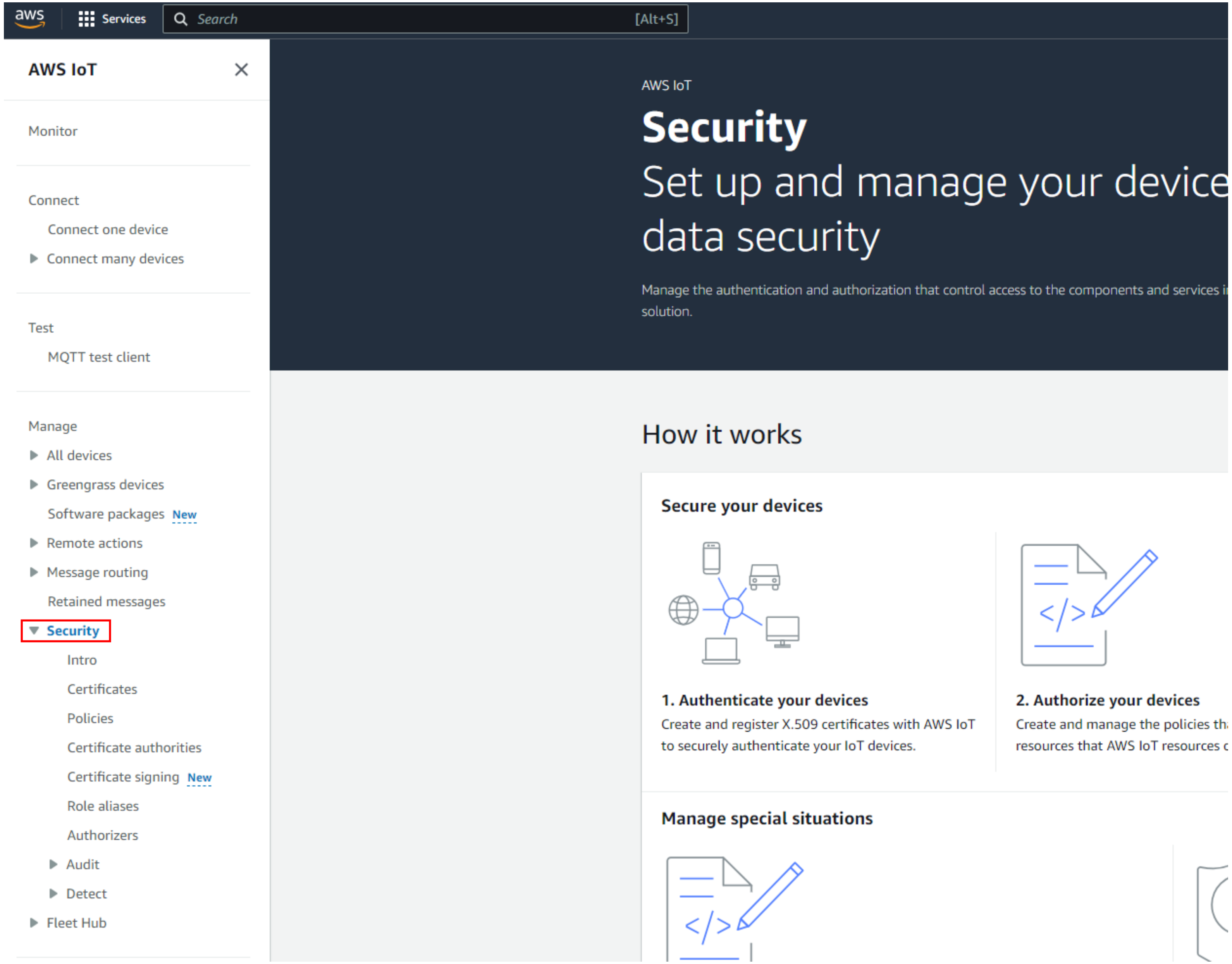
- AWS IoT Core manages the “things” (objects) in the Cloud
- Before accepting the connection of an object, AWS IoT Core needs to authentication this object
- This object authentication is based on an X.509 certificate and an ECDSA handshake process

STSAFE-A contribution

- STSAFE-A offers an ECDSA handshake authentication and comes loaded with an X.509 certificate that can be reused by a connected object
- To make this connected object accepted by an AWS IoT Core, the X.509 certificate must first be loaded within AWS IoT Core

AWS IoT Core

- In IoT Core, expand the security submenu
- Then click on [Certificates]



AWS IoT

Security

Set up and manage your device data security

Manage the authentication and authorization that control access to the components and services i solution.

How it works

Secure your devices

1. Authenticate your devices

Create and register X.509 certificates with AWS IoT to securely authenticate your IoT devices.

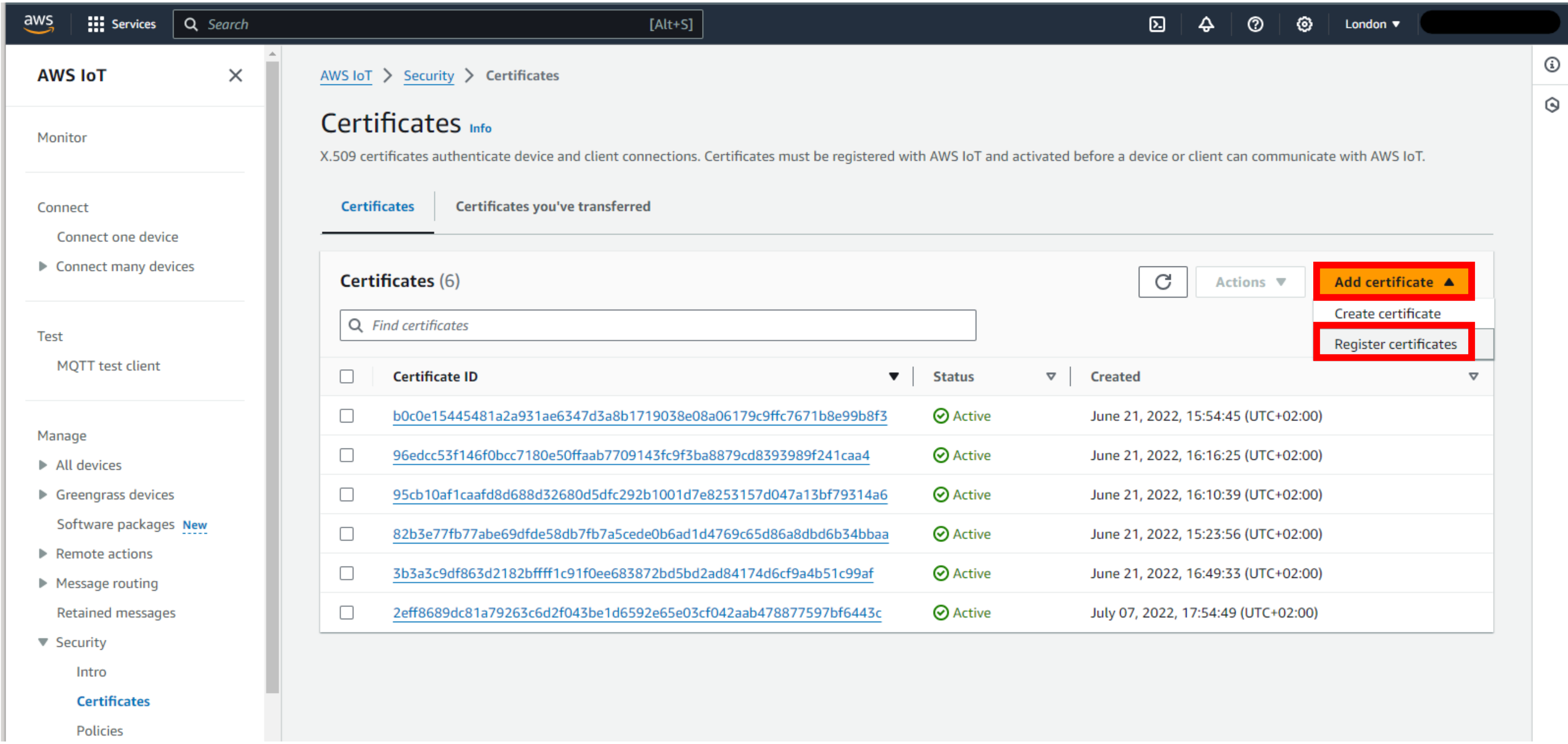
2. Authorize your devices

Create and manage the policies th resources that AWS IoT resources c

Manage special situations

AWS IoT Core > Security > Certificates

- The list of current certificates is displayed
- Expand [Add Certificate]
- Click on [Register certificates]



Certificates Info

X.509 certificates authenticate device and client connections. Certificates must be registered with AWS IoT and activated before a device or client can communicate with AWS IoT.

Certificates (6)

□	Certificate ID	Status	Created
□	b0c0e15445481a2a931ae6347d3a8b1719038e08a06179c9ffc7671b8e99b8f3	✓ Active	June 21, 2022, 15:54:45 (UTC+02:00)
□	96edcc53f146f0bcc7180e50ffaab7709143fc9f3ba8879cd8393989f241caa4	✓ Active	June 21, 2022, 16:16:25 (UTC+02:00)
□	95cb10af1caafd8d688d32680d5dfc292b1001d7e8253157d047a13bf79314a6	✓ Active	June 21, 2022, 16:10:39 (UTC+02:00)
□	82b3e77fb77abe69dfde58db7fb7a5cede0b6ad1d4769c65d86a8dbd6b34bbaa	✓ Active	June 21, 2022, 15:23:56 (UTC+02:00)
□	3b3a3c9df863d2182bffff1c91f0ee683872bd5bd2ad84174d6cf9a4b51c99af	✓ Active	June 21, 2022, 16:49:33 (UTC+02:00)
□	2eff8689dc81a79263c6d2f043be1d6592e65e03cf042aab478877597bf6443c	✓ Active	July 07, 2022, 17:54:49 (UTC+02:00)

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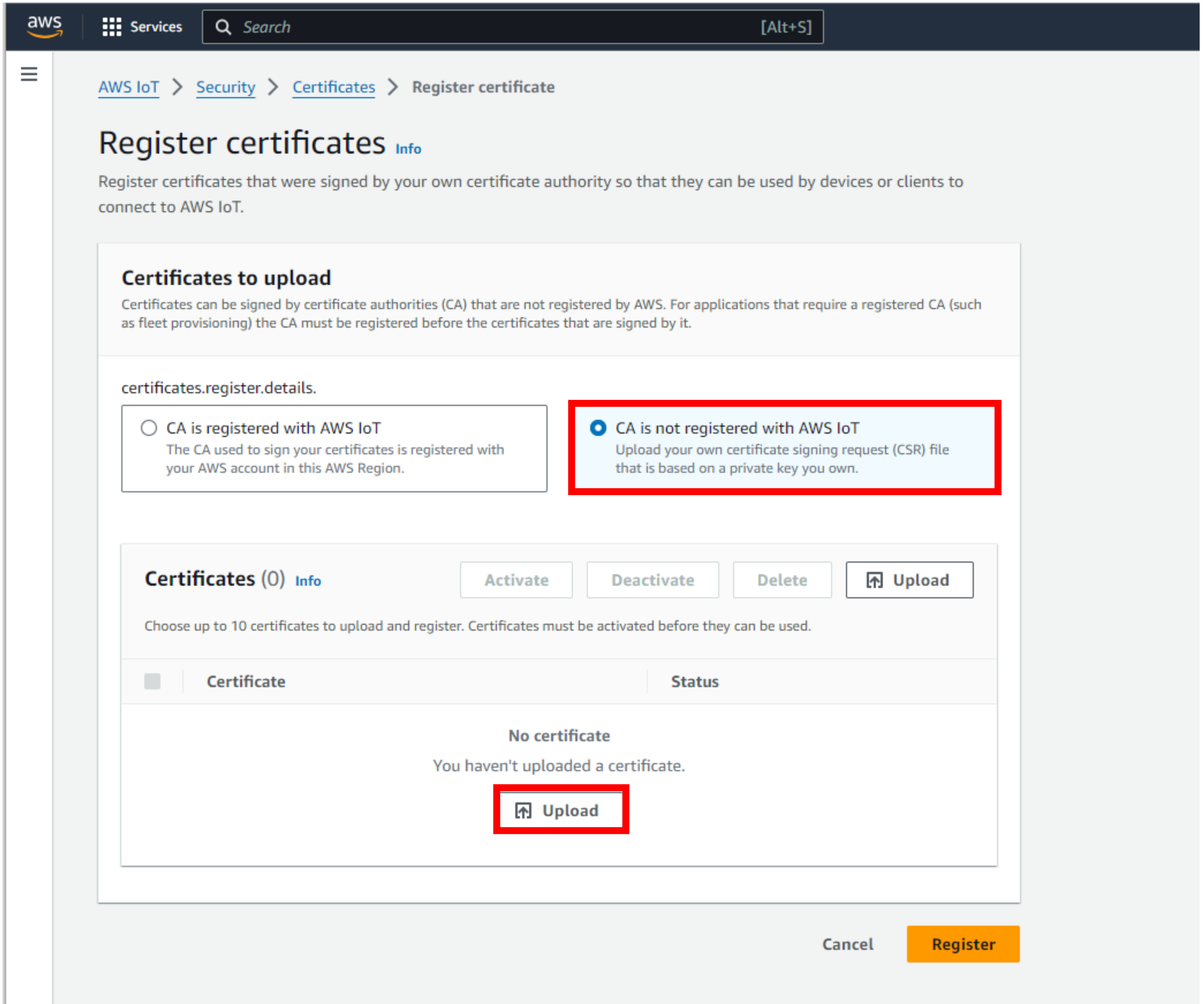
AWS IoT Core > Security > Certificates > Register certificate

- The list of current certificates is displayed
- Expand [Add Certificate]
- Click on [Register certificates]



AWS IoT > Security > Certificates > Register certificate

Register certificates Info

Register certificates that were signed by your own certificate authority so that they can be used by devices or clients to connect to AWS IoT.

Certificates to upload

Certificates can be signed by certificate authorities (CA) that are not registered by AWS. For applications that require a registered CA (such as fleet provisioning) the CA must be registered before the certificates that are signed by it.

certificates.register.details.

○ CA is registered with AWS IoT
The CA used to sign your certificates is registered with your AWS account in this AWS Region.

● CA is not registered with AWS IoT
Upload your own certificate signing request (CSR) file that is based on a private key you own.

Certificates (0) Info

Choose up to 10 certificates to upload and register. Certificates must be activated before they can be used.

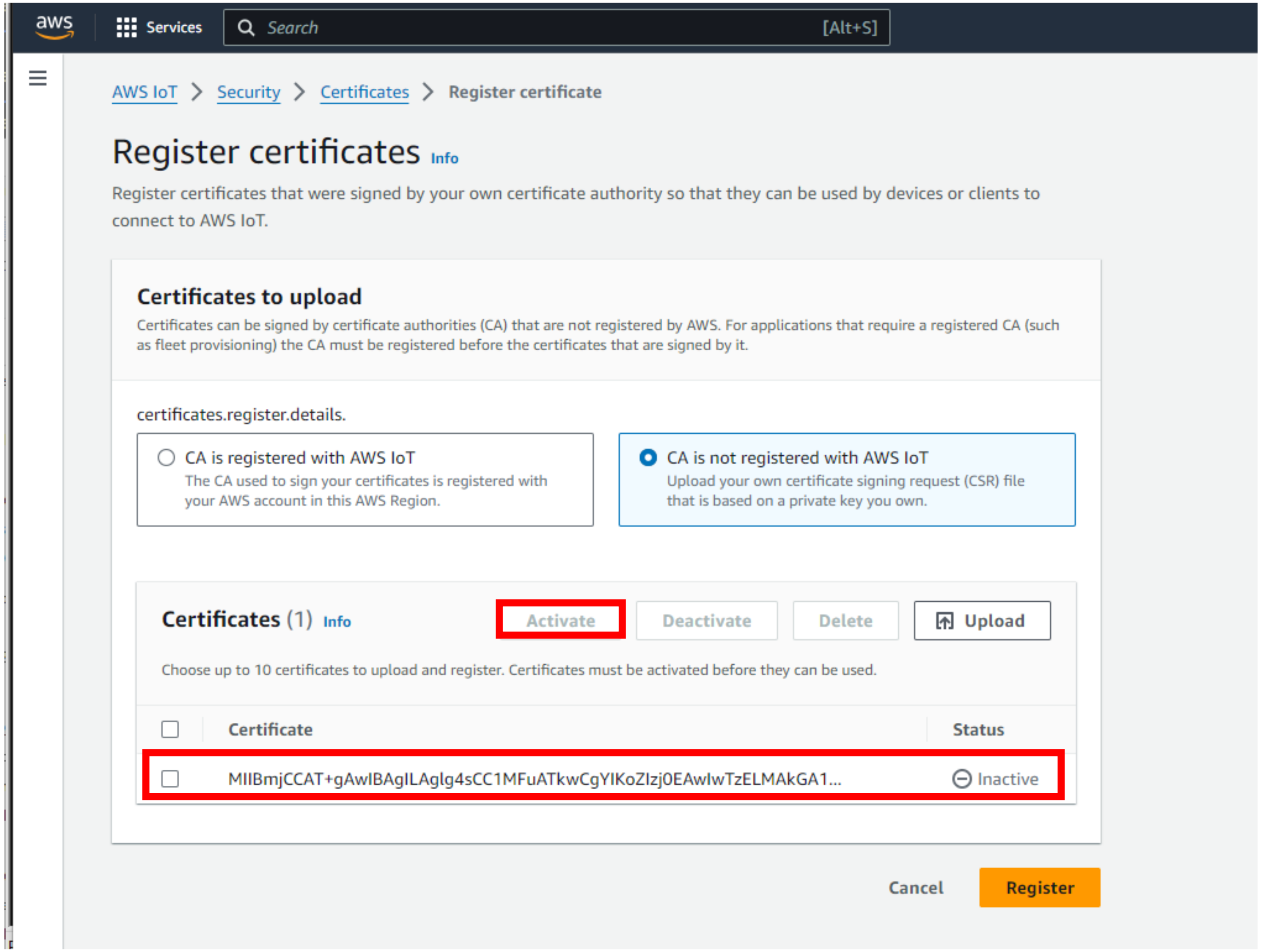
□	Certificate	Status

No certificate

You haven't uploaded a certificate.

AWS IoT Core > Security > Certificates > Register certificate

- Select the certificate and click [Activate]



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

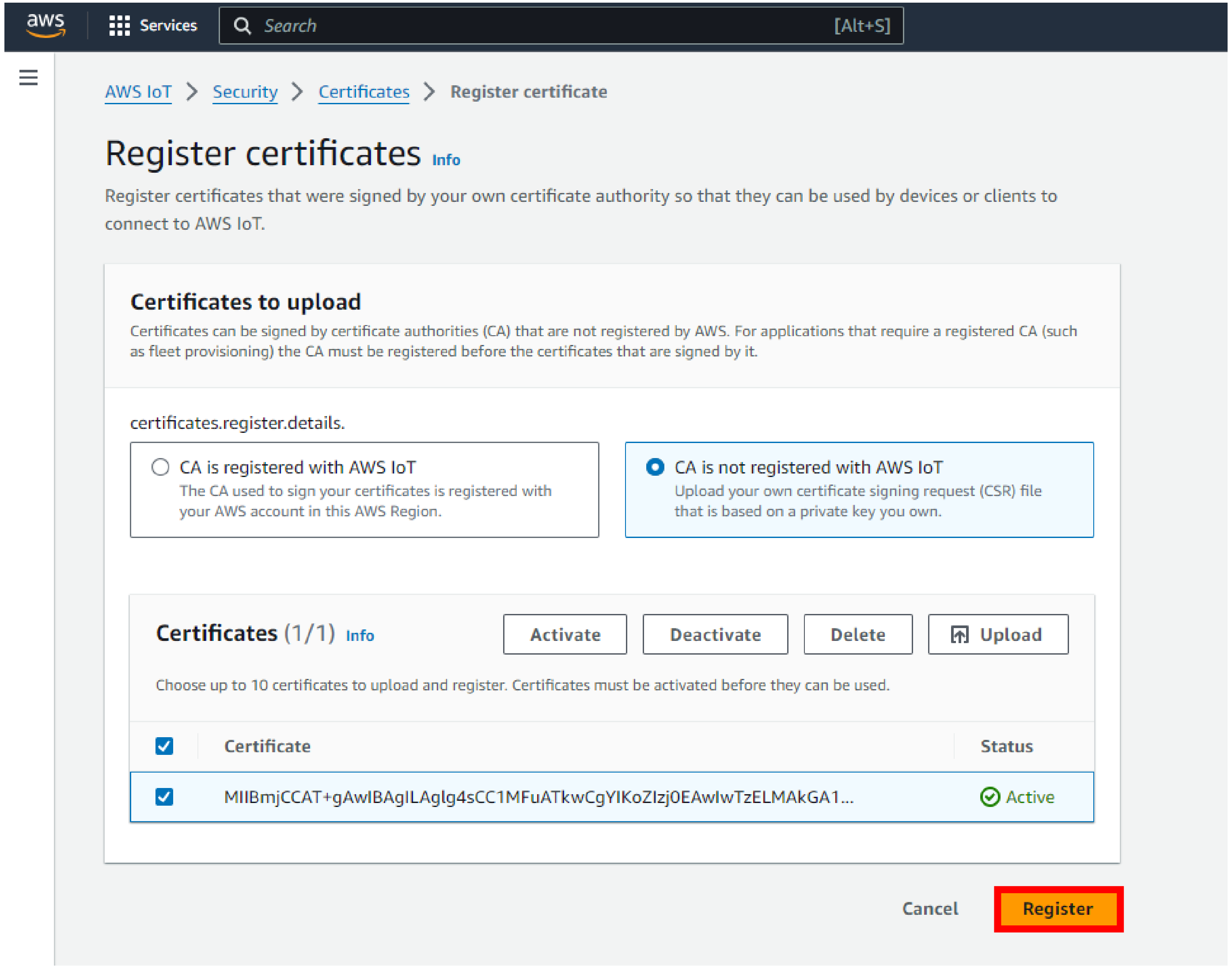
Certificates (1) Info

Choose up to 10 certificates to upload and register. Certificates must be activated before they can be used.

□	Certificate	Status
□	MIIBmjCCAT+gAwIBAgILAglg4sCC1MFuATkwCgYIKoZIzj0EAwIwTzELMAkGA1...	⊖ Inactive

AWS IoT Core > Security > Certificates > Register certificate

- Now click on [Register]



AWS IoT > Security > Certificates > Register certificate

Register certificates Info

Register certificates that were signed by your own certificate authority so that they can be used by devices or clients to connect to AWS IoT.

Certificates to upload

Certificates can be signed by certificate authorities (CA) that are not registered by AWS. For applications that require a registered CA (such as fleet provisioning) the CA must be registered before the certificates that are signed by it.

certificates.register.details.

○ CA is registered with AWS IoT
The CA used to sign your certificates is registered with your AWS account in this AWS Region.

● CA is not registered with AWS IoT
Upload your own certificate signing request (CSR) file that is based on a private key you own.

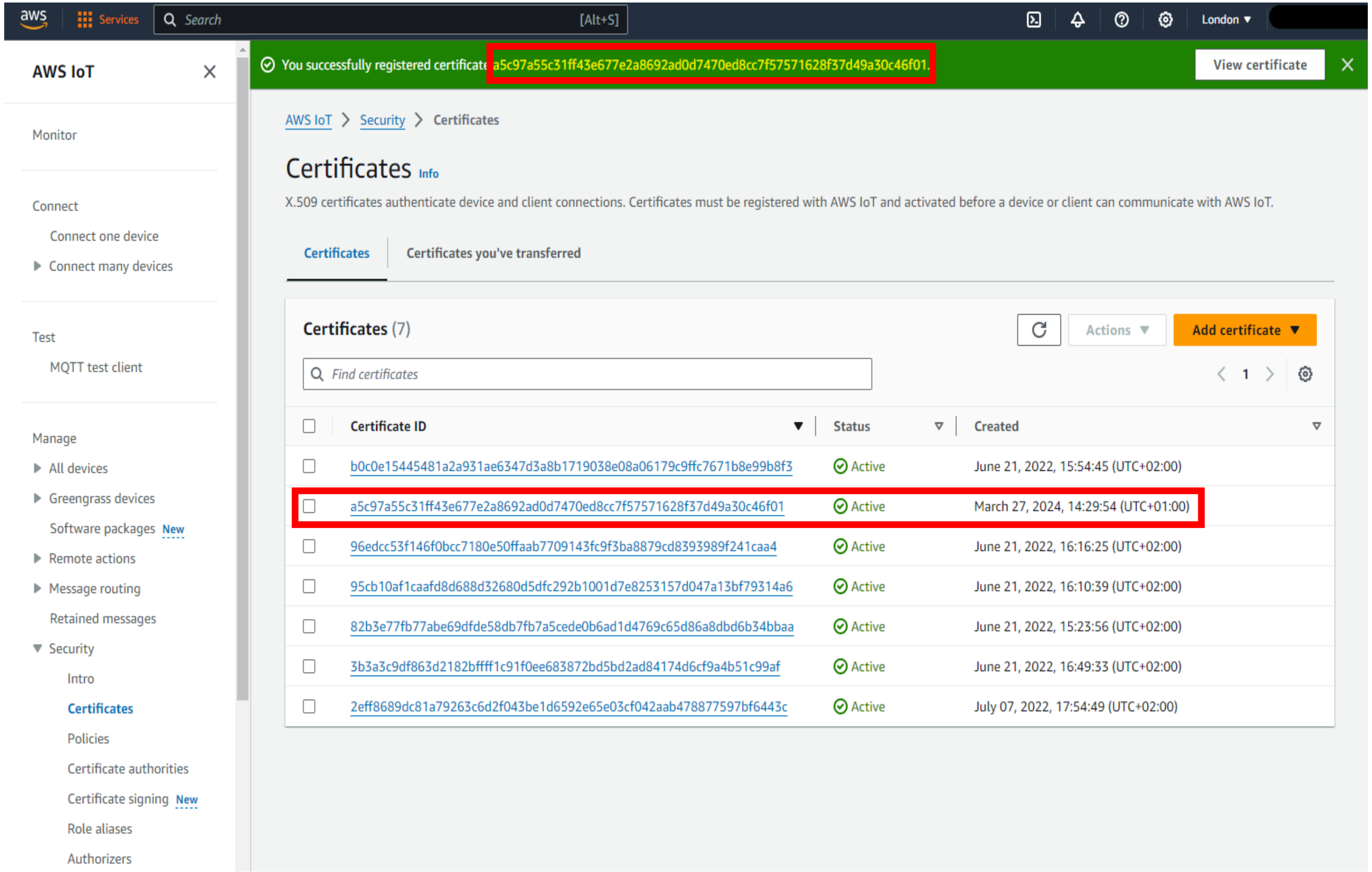
Certificates (1/1) Info

Choose up to 10 certificates to upload and register. Certificates must be activated before they can be used.

☑	Certificate	Status
☑	MIIBmjCCAT+gAwIBAgILAgIg4sCC1MFuATkwCgYIKoZIzj0EAwIwTzELMAkGA1...	✓ Active

AWS IoT Core > Security > Certificates

- The ID of the new certificate is display in the green banner
- And you can find the newly added certificate in the list
- The ID is the SHA256 fingerprint of your certificate



[redacted]

✓ You successfully registered certificate a5c97a55c31ff43e677e2a8692ad0d7470ed8cc7f57571628f37d49a30c46f01.

Certificates Info

X.509 certificates authenticate device and client connections. Certificates must be registered with AWS IoT and activated before a device or client can communicate with AWS IoT.

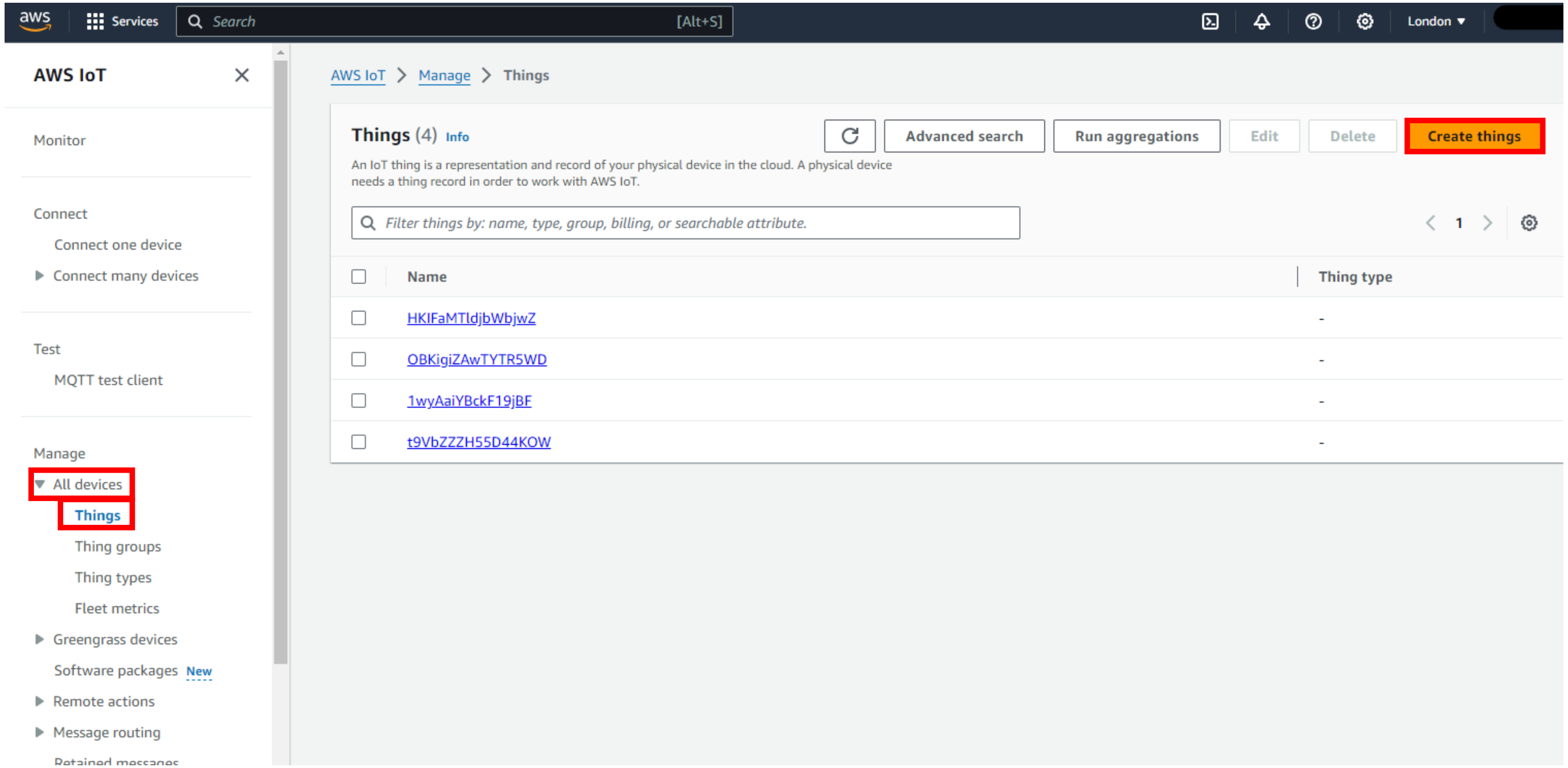
□	Certificate ID	Status	Created
□	b0c0e15445481a2a931ae6347d3a8b1719038e08a06179c9ffc7671b8e99b8f3	✓ Active	June 21, 2022, 15:54:45 (UTC+02:00)
□	a5c97a55c31ff43e677e2a8692ad0d7470ed8cc7f57571628f37d49a30c46f01	✓ Active	March 27, 2024, 14:29:54 (UTC+01:00)
□	96edcc53f146f0bcc7180e50ffaab7709143fc9f3ba8879cd8393989f241caa4	✓ Active	June 21, 2022, 16:16:25 (UTC+02:00)
□	95cb10af1caafd8d688d32680d5dfc292b1001d7e8253157d047a13bf79314a6	✓ Active	June 21, 2022, 16:10:39 (UTC+02:00)
□	82b3e77fb77abe69dfde58db7fb7a5cede0b6ad1d4769c65d86a8dbd6b34bbaa	✓ Active	June 21, 2022, 15:23:56 (UTC+02:00)
□	3b3a3c9df863d2182bffff1c91f0ee683872bd5bd2ad84174d6cf9a4b51c99af	✓ Active	June 21, 2022, 16:49:33 (UTC+02:00)
□	2eff8689dc81a79263c6d2f043be1d6592e65e03cf042aab478877597bf6443c	✓ Active	July 07, 2022, 17:54:49 (UTC+02:00)

```
> openssl x509 -fingerprint -in 60E2C082D4C16E0139.pem -sha256 -noout

SHA256 Fingerprint=A5:C9:7A:55:C3:1F:F4:3E:67:7E:2A:86:92:AD:0D:74:70:ED:8C:C7:F5:75:71:62:8F:37:D4:9A:30:C4:6F:01
```

AWS IoT Core > Manage > Things

- Now Create a Thing
- Expand [All Devices] and click [Things]
- Then click on [Create things]



Things (4) Info

An IoT thing is a representation and record of your physical device in the cloud. A physical device needs a thing record in order to work with AWS IoT.

Filter things by: name, type, group, billing, or searchable attribute.

□	Name	Thing type
□	HKIFaMTldjbWbjwZ	-
□	OBKigiZAwTYTR5WD	-
□	1wyAaiYBckF19jBF	-
□	t9VbZZZH55D44KOW	-

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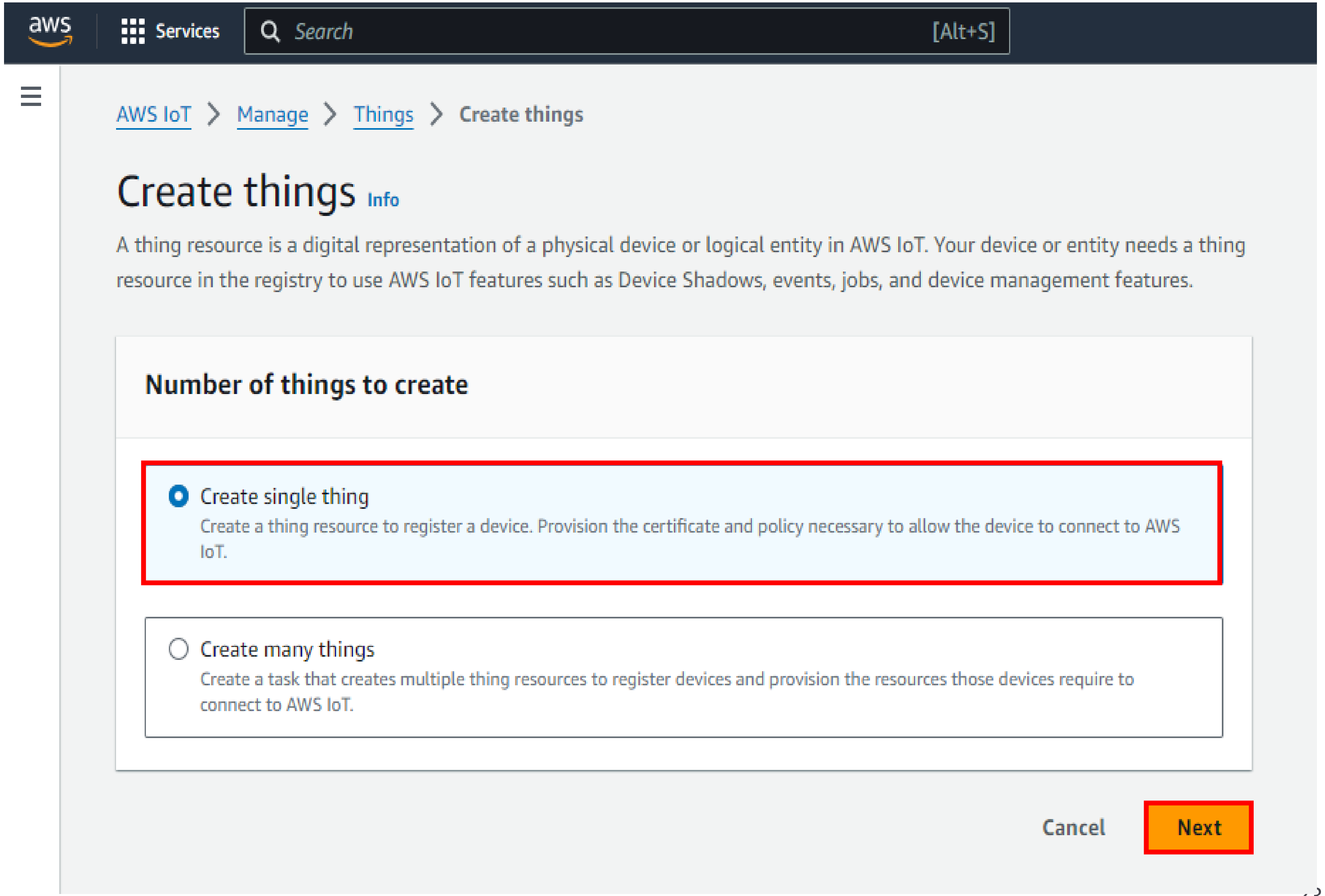
AWS IoT Core > Manage > Things > Create things

- Select [Create single thing]
- Click [Next]



AWS IoT > Manage > Things > Create things

Create things Info

A thing resource is a digital representation of a physical device or logical entity in AWS IoT. Your device or entity needs a thing resource in the registry to use AWS IoT features such as Device Shadows, events, jobs, and device management features.

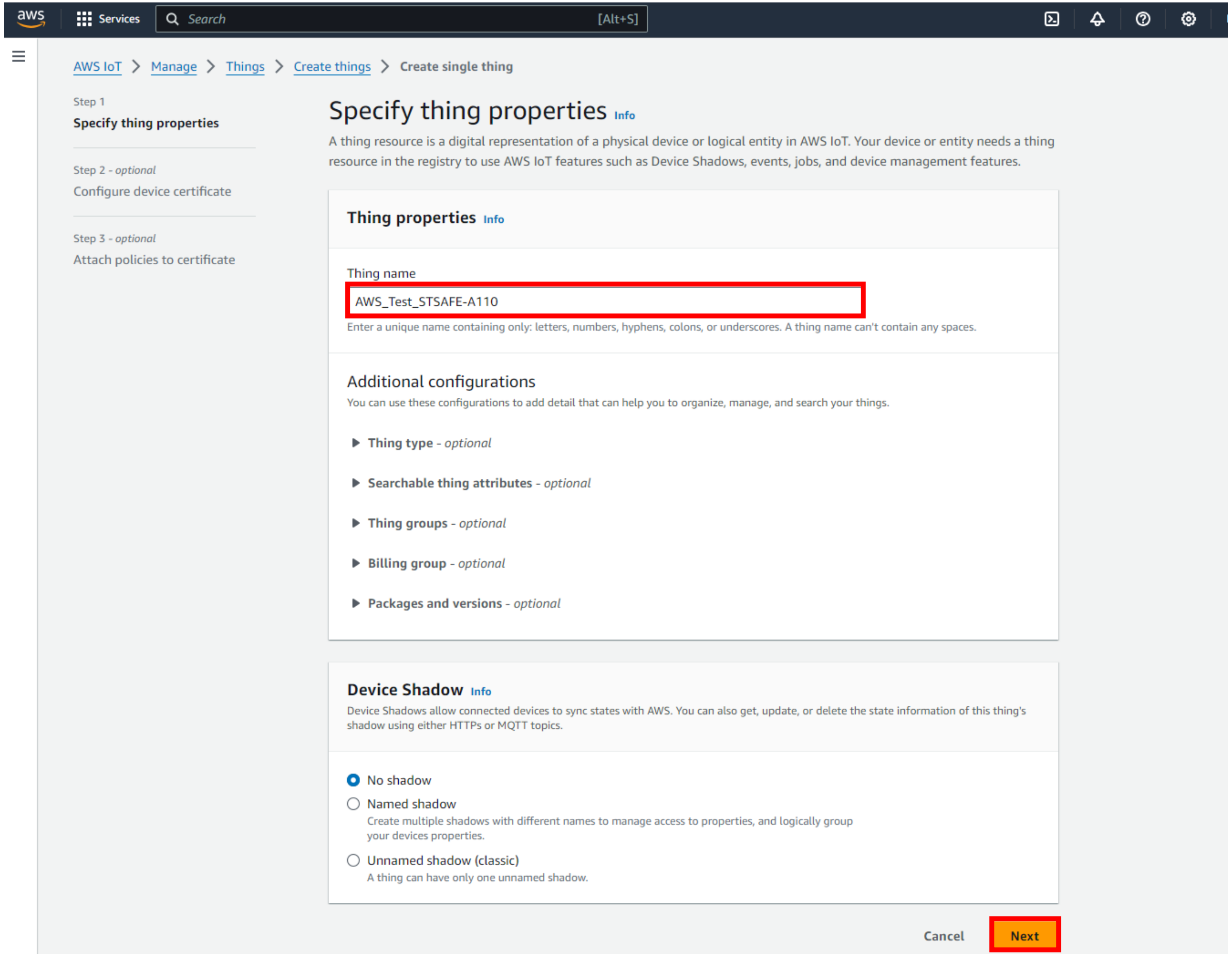
Number of things to create

● Create single thing
Create a thing resource to register a device. Provision the certificate and policy necessary to allow the device to connect to AWS IoT.

○ Create many things
Create a task that creates multiple thing resources to register devices and provision the resources those devices require to connect to AWS IoT.

AWS IoT Core > Manage > Things > Create things

- Provide a [Thing name]
- Add your custom Thing configuration
- Then click [Next]



AWS IoT > Manage > Things > Create things > Create single thing

Step 1
Specify thing properties

Step 2 - *optional*
Configure device certificate

Step 3 - *optional*
Attach policies to certificate

Specify thing properties Info

A thing resource is a digital representation of a physical device or logical entity in AWS IoT. Your device or entity needs a thing resource in the registry to use AWS IoT features such as Device Shadows, events, jobs, and device management features.

Thing properties Info

Thing name
AWS_Test_STSAFE-A110
Enter a unique name containing only: letters, numbers, hyphens, colons, or underscores. A thing name can't contain any spaces.

Additional configurations
You can use these configurations to add detail that can help you to organize, manage, and search your things.

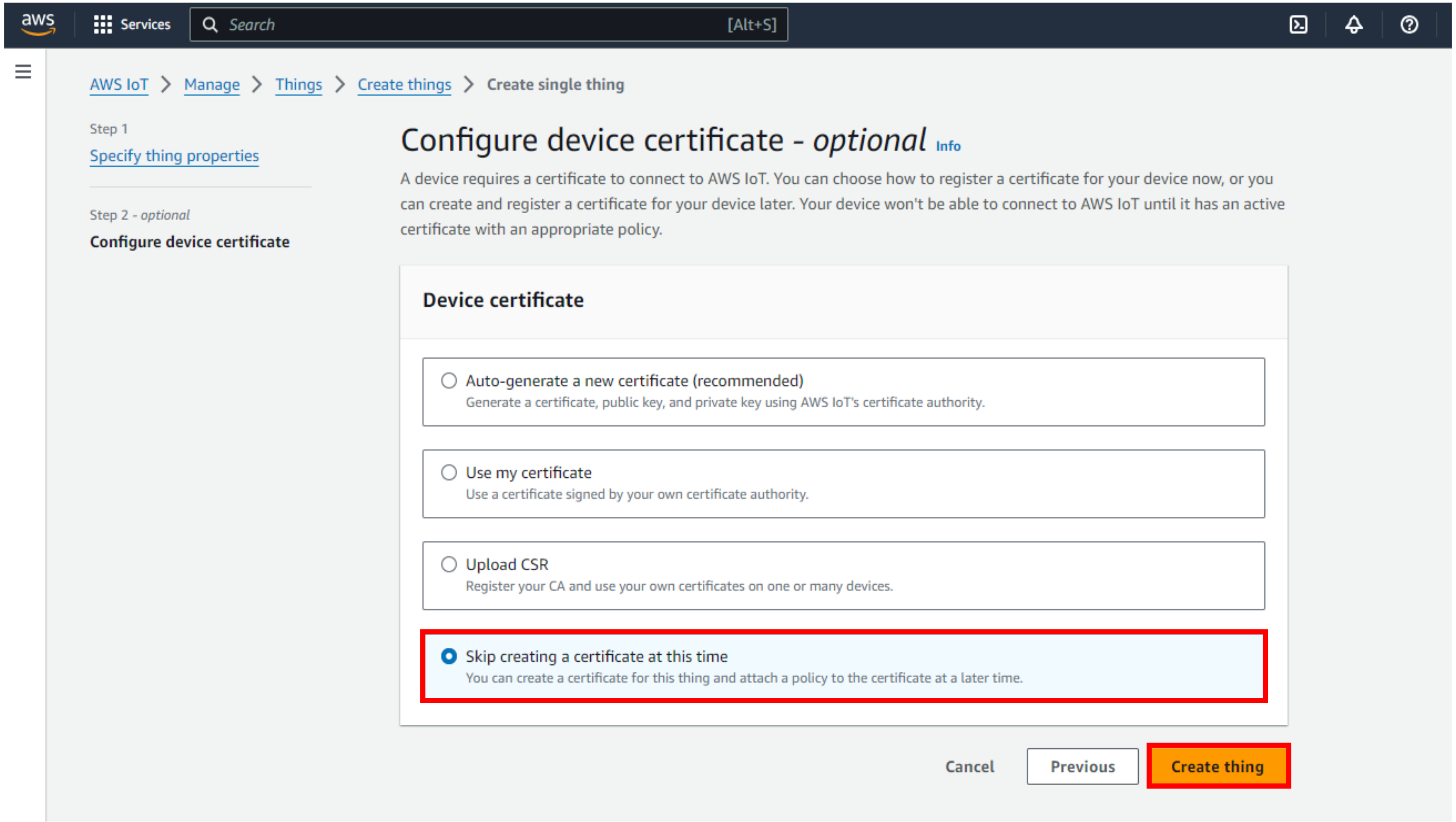
- ▶ **Thing type** - *optional*
- ▶ **Searchable thing attributes** - *optional*
- ▶ **Thing groups** - *optional*
- ▶ **Billing group** - *optional*
- ▶ **Packages and versions** - *optional*

Device Shadow Info
Device Shadows allow connected devices to sync states with AWS. You can also get, update, or delete the state information of this thing's shadow using either HTTPs or MQTT topics.

● No shadow
○ Named shadow
Create multiple shadows with different names to manage access to properties, and logically group your devices properties.
○ Unnamed shadow (classic)
A thing can have only one unnamed shadow.

AWS IoT Core > Manage > Things > Create things

- Select [Skip creating a certificate at this time]
- Click [Create thing]



AWS IoT > Manage > Things > Create things > Create single thing

Step 1
Specify thing properties

Step 2 - *optional*
Configure device certificate

Configure device certificate - *optional* Info

A device requires a certificate to connect to AWS IoT. You can choose how to register a certificate for your device now, or you can create and register a certificate for your device later. Your device won't be able to connect to AWS IoT until it has an active certificate with an appropriate policy.

Device certificate

○ Auto-generate a new certificate (recommended)
Generate a certificate, public key, and private key using AWS IoT's certificate authority.

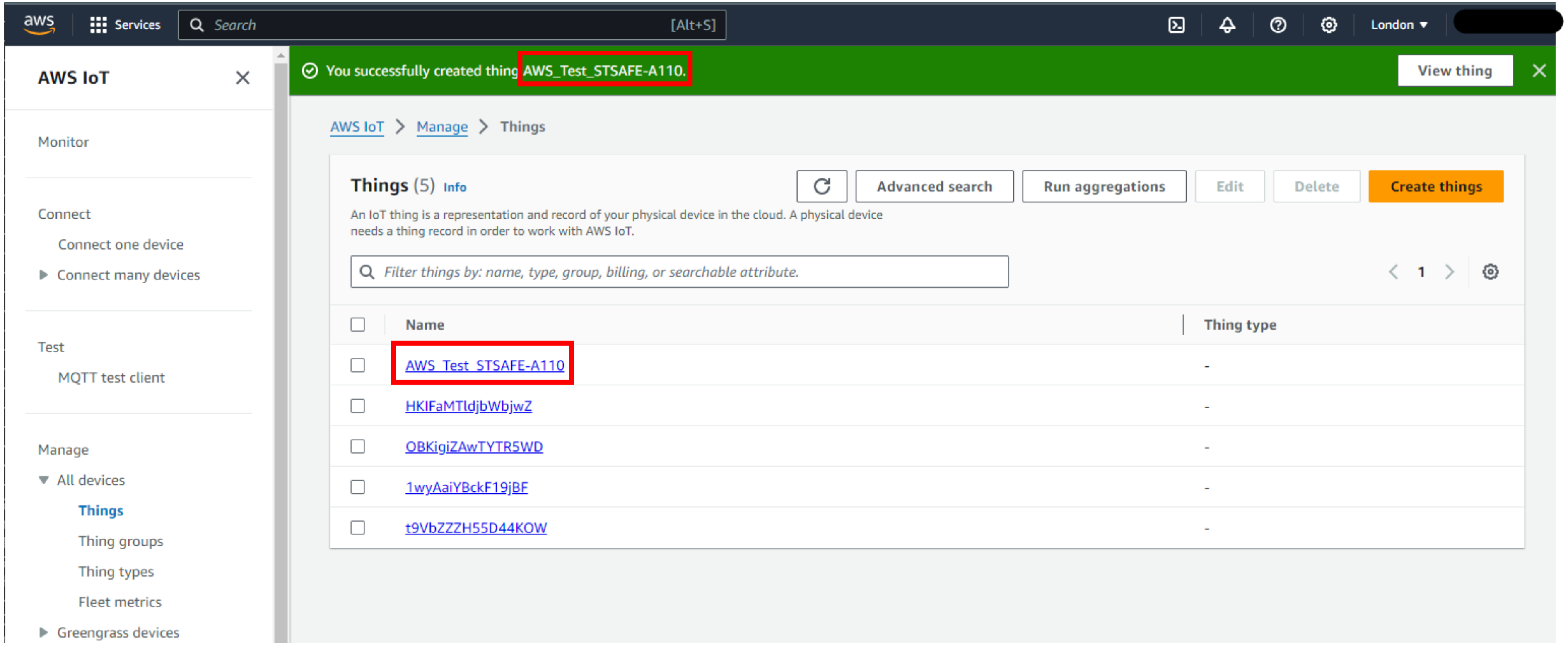
○ Use my certificate
Use a certificate signed by your own certificate authority.

○ Upload CSR
Register your CA and use your own certificates on one or many devices.

● Skip creating a certificate at this time
You can create a certificate for this thing and attach a policy to the certificate at a later time.

AWS IoT Core > Manage > Things > Create things

- Your Thing is now created
- Go back to Security > Certificates



[redacted]

You successfully created thing AWS_Test_STSAFE-A110.

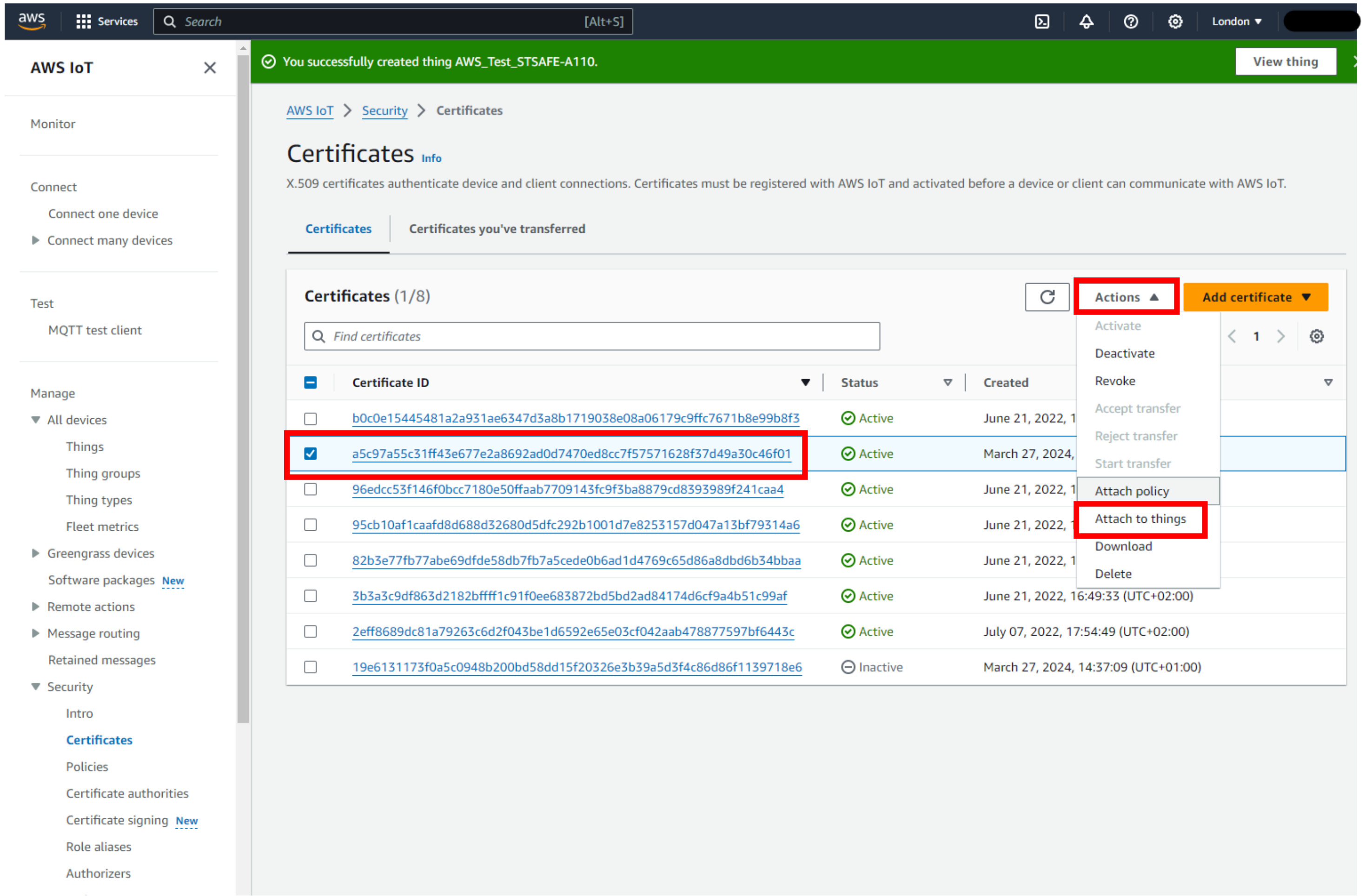
Things (5)

An IoT thing is a representation and record of your physical device in the cloud. A physical device needs a thing record in order to work with AWS IoT.

	Name	Thing type
□	AWS_Test_STSAFE-A110	-
□	HKIFaMTldjbWbjwZ	-
□	OBKigiZAwTYTR5WD	-
□	1wyAaiYBckF19jBF	-
□	t9VbZZZH55D44KOW	-

AWS IoT Core > Security > Certificates

- Select your certificate
- Expand [Actions]
- Click on [Attach to things]



You successfully created thing AWS_Test_STSAFE-A110.

Certificates Info

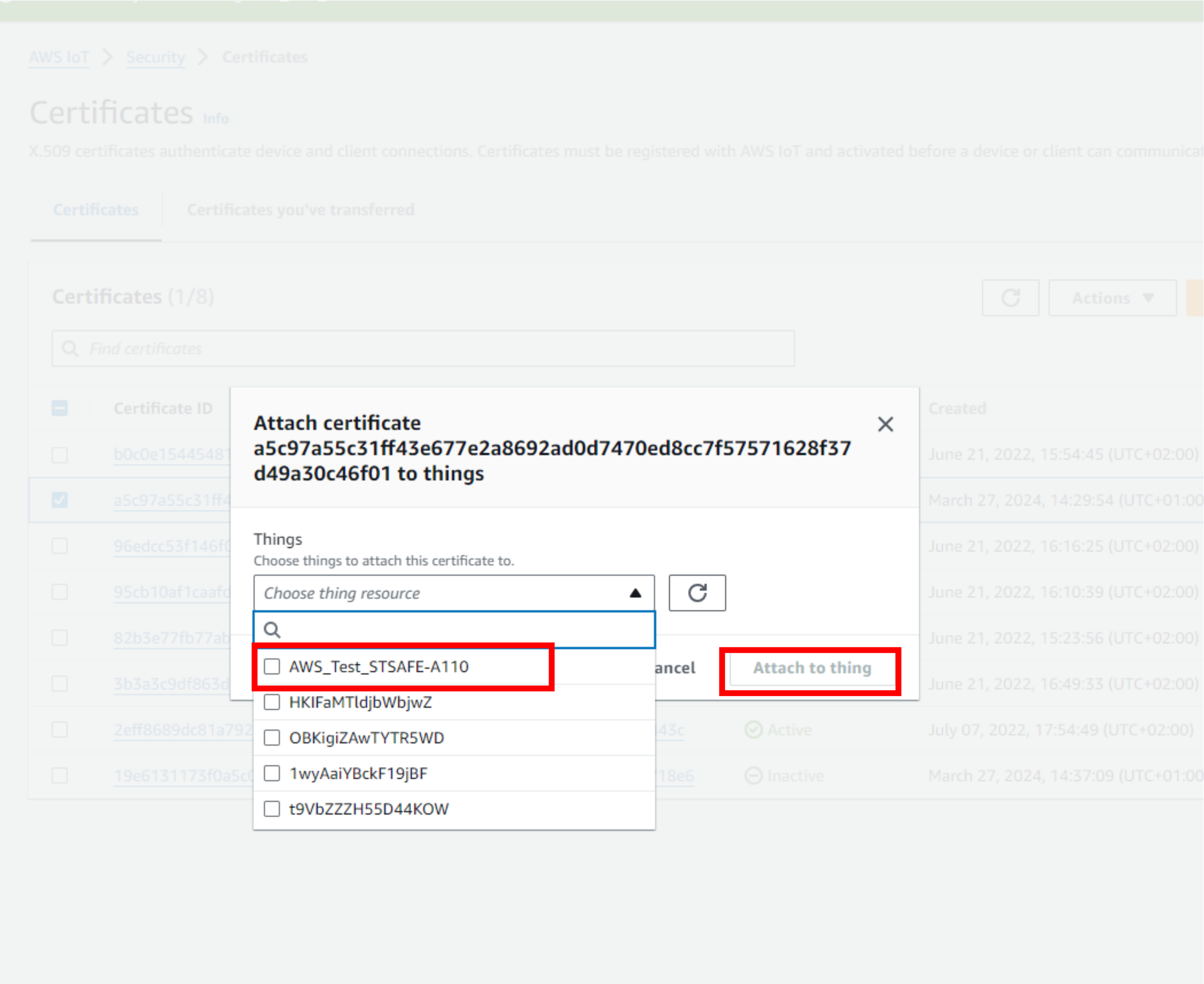
X.509 certificates authenticate device and client connections. Certificates must be registered with AWS IoT and activated before a device or client can communicate with AWS IoT.

Certificates (1/8)

	Certificate ID	Status	Created
☐	b0c0e15445481a2a931ae6347d3a8b1719038e08a06179c9ffc7671b8e99b8f3	Active	June 21, 2022, 1
☑	a5c97a55c31ff43e677e2a8692ad0d7470ed8cc7f57571628f37d49a30c46f01	Active	March 27, 2024,
☐	96edcc53f146f0bcc7180e50ffaab7709143fc9f3ba8879cd8393989f241caa4	Active	June 21, 2022, 1
☐	95cb10af1caafd8d688d32680d5dfc292b1001d7e8253157d047a13bf79314a6	Active	June 21, 2022, 1
☐	82b3e77fb77abe69dfde58db7fb7a5cede0b6ad1d4769c65d86a8dbd6b34bbaa	Active	June 21, 2022, 1
☐	3b3a3c9df863d2182bffff1c91f0ee683872bd5bd2ad84174d6cf9a4b51c99af	Active	June 21, 2022, 16:49:33 (UTC+02:00)
☐	2eff8689dc81a79263c6d2f043be1d6592e65e03cf042aab478877597bf6443c	Active	July 07, 2022, 17:54:49 (UTC+02:00)
☐	19e6131173f0a5c0948b200bd58dd15f20326e3b39a5d3f4c86d86f1139718e6	Inactive	March 27, 2024, 14:37:09 (UTC+01:00)

AWS IoT Core > Security > Certificates

- Choose your Thing
- Click on [Attach to thing]
- Your thing and the certificate are now attached



AWS IoT > Security > Certificates

Certificates Info

X.509 certificates authenticate device and client connections. Certificates must be registered with AWS IoT and activated before a device or client can communicat

Certificates | Certificates you've transferred

Certificates (1/8)

Find certificates

	Certificate ID		Created
□	b0c0e1544548		June 21, 2022, 15:54:45 (UTC+02:00)
☑	a5c97a55c31ff4		March 27, 2024, 14:29:54 (UTC+01:00
□	96edcc53f146f		June 21, 2022, 16:16:25 (UTC+02:00)
□	95cb10af1caaf		June 21, 2022, 16:10:39 (UTC+02:00)
□	82b3e77fb77ab		June 21, 2022, 15:23:56 (UTC+02:00)
□	3b3a3c9df863d		June 21, 2022, 16:49:33 (UTC+02:00)
□	2eff8689dc81a792 … 43c	Active	July 07, 2022, 17:54:49 (UTC+02:00)
□	19e6131173f0a5c … 18e6	Inactive	March 27, 2024, 14:37:09 (UTC+01:00

Attach certificate a5c97a55c31ff43e677e2a8692ad0d7470ed8cc7f57571628f37d49a30c46f01 to things

Things

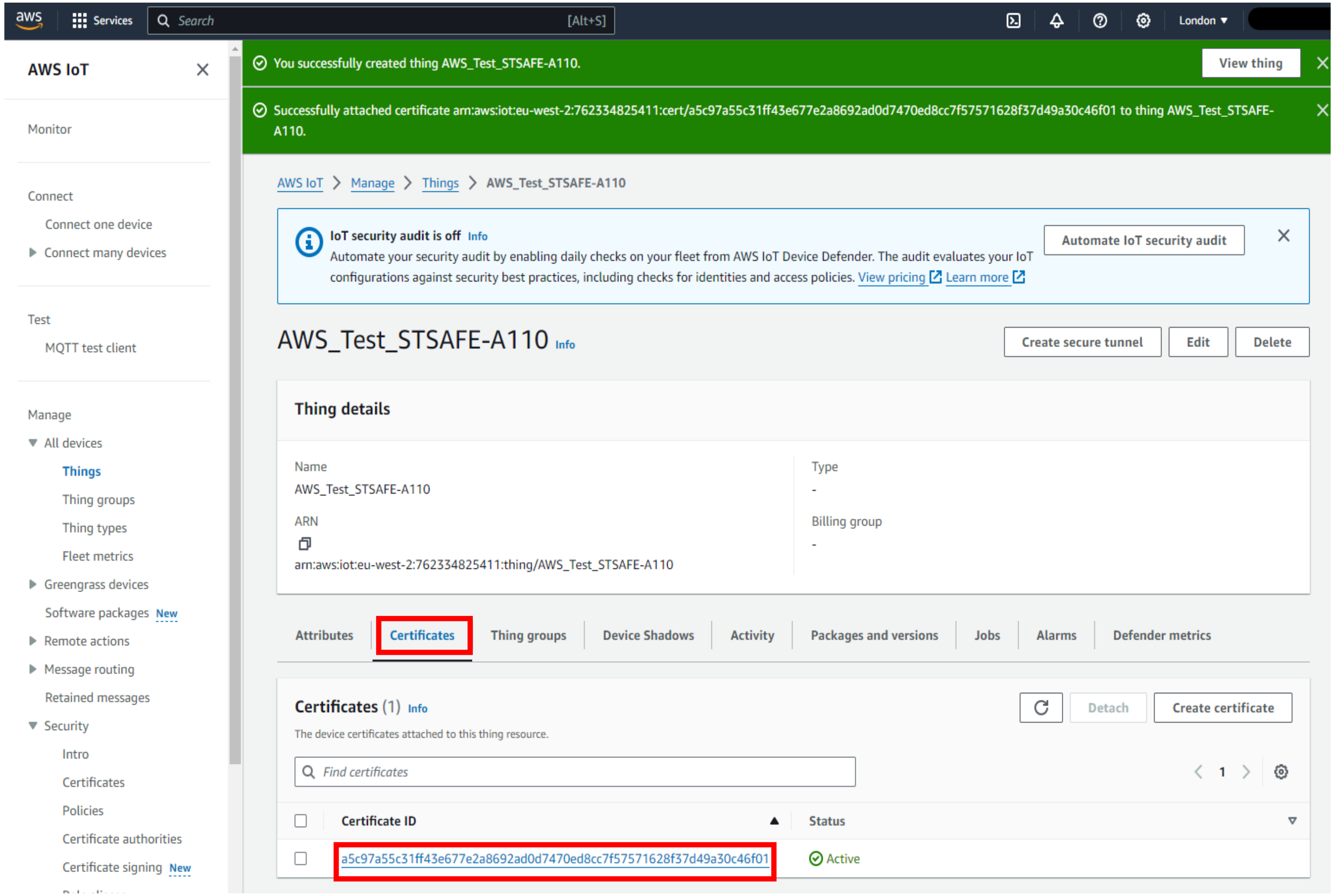
Choose things to attach this certificate to.

Choose thing resource

- □ AWS_Test_STSAFE-A110
- □ HKIFaMTldjbWbjwZ
- □ OBKigiZAwTYTR5WD
- □ 1wyAaiYBckF19jBF
- □ t9VbZZZH55D44KOW

AWS IoT Core > Manage > Things > AWS_Test_STSAFE-A110

- Go back to your thing in [Certificates]
- You can see the certificate attached to the Thing



You successfully created thing AWS_Test_STSAFE-A110.

Successfully attached certificate arn:aws:iot:eu-west-2:762334825411:cert/a5c97a55c31ff43e677e2a8692ad0d7470ed8cc7f57571628f37d49a30c46f01 to thing AWS_Test_STSAFE-A110.

AWS IoT > Manage > Things > AWS_Test_STSAFE-A110

IoT security audit is off Info
Automate your security audit by enabling daily checks on your fleet from AWS IoT Device Defender. The audit evaluates your IoT configurations against security best practices, including checks for identities and access policies. View pricing Learn more

AWS_Test_STSAFE-A110 Info

Thing details

Name
AWS_Test_STSAFE-A110

ARN
arn:aws:iot:eu-west-2:762334825411:thing/AWS_Test_STSAFE-A110

Type
-

Billing group
-

Certificates (1) Info

The device certificates attached to this thing resource.

Find certificates

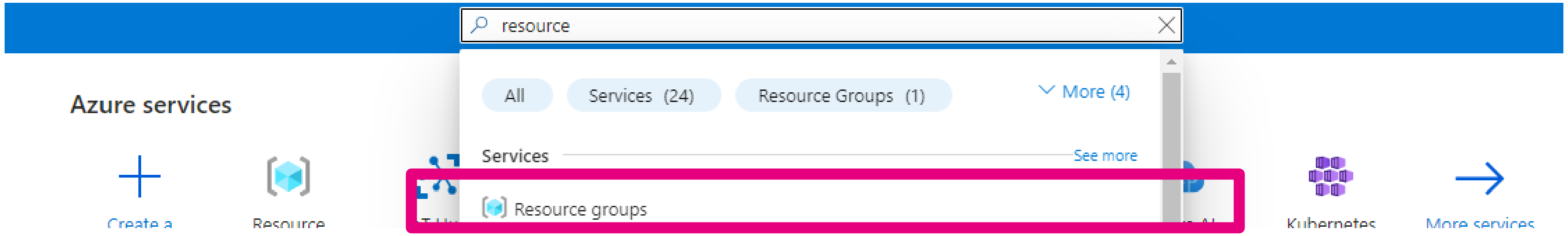
□	Certificate ID ▲	Status
□	a5c97a55c31ff43e677e2a8692ad0d7470ed8cc7f57571628f37d49a30c46f01	✓ Active

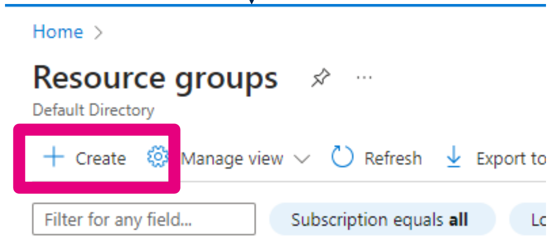
Attachment to Azure account

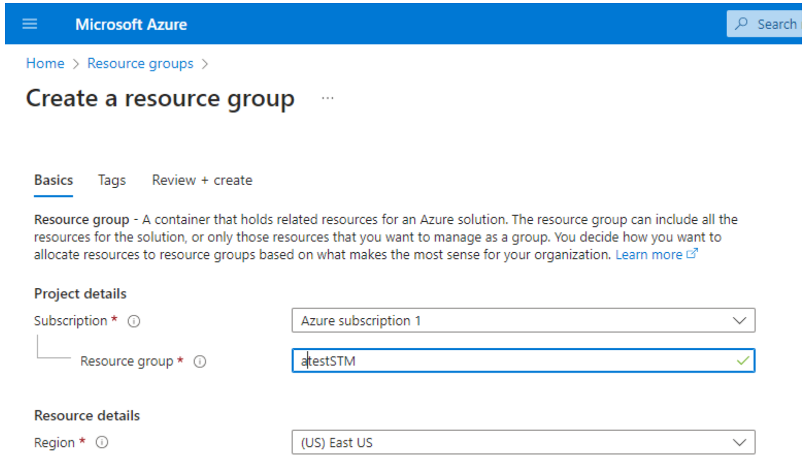
Azure

life.augmented

Create a resource group in Azure







Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Learn more

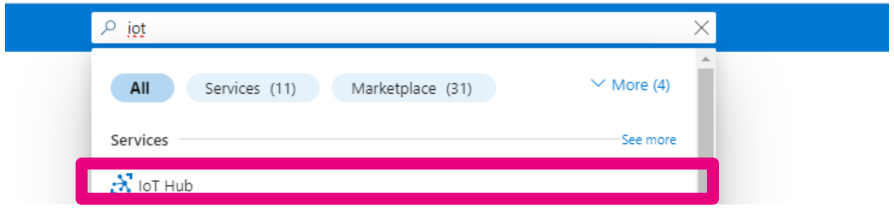
Project details

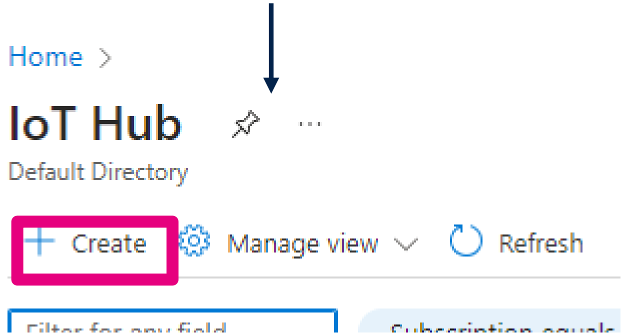
Subscription *	Azure subscription 1
Resource group *	atestSTM

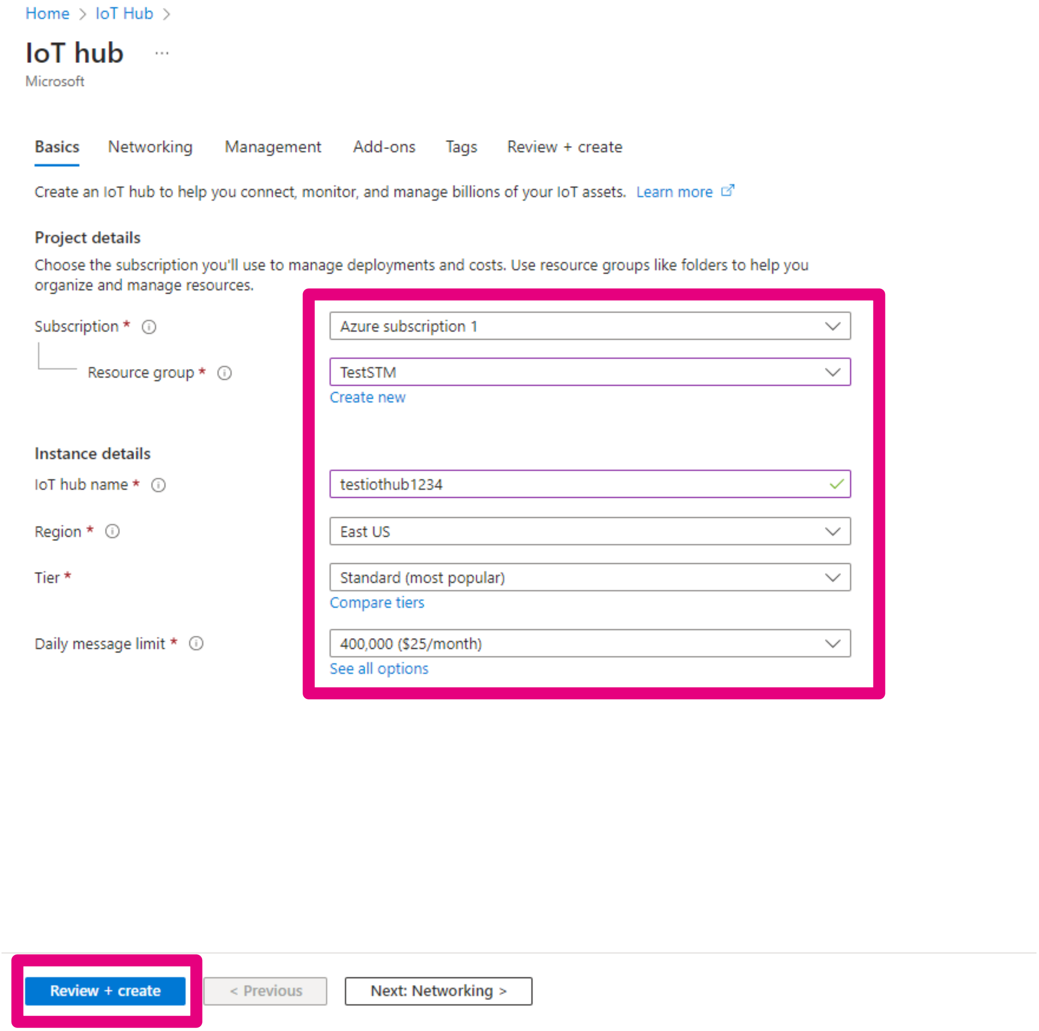
Resource details

Region *	(US) East US

Create an IoT Hub in Azure







Create an IoT hub to help you connect, monitor, and manage billions of your IoT assets. Learn more

Project details

Choose the subscription you'll use to manage deployments and costs. Use resource groups like folders to help you organize and manage resources.

Subscription *: Azure subscription 1

Resource group *: TestSTM

Create new

Instance details

IoT hub name *: testiothub1234 ✓

Region *: East US

Tier *: Standard (most popular)

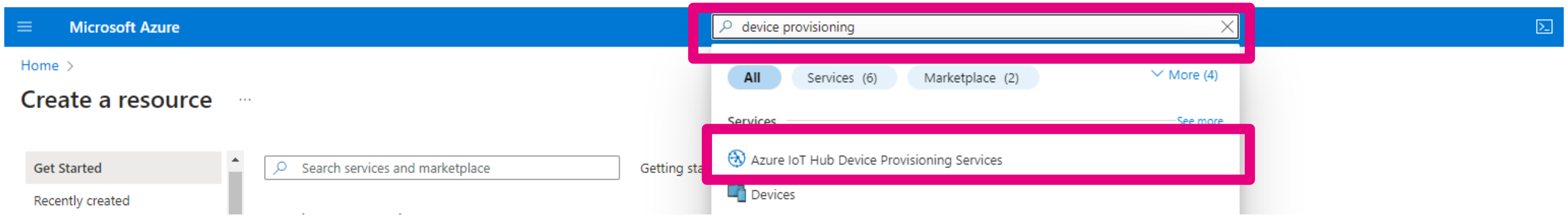
Compare tiers

Daily message limit *: 400,000 ($25/month)

See all options

Link Resource Group and Set a Hub Name. Set hub specifics per use case

Create a Device Provisioning Service (DPS) in Azure



Microsoft Azure

device provisioning

All | Services (6) | Marketplace (2) | More (4)

Services — See more

Azure IoT Hub Device Provisioning Services

Devices

Home >

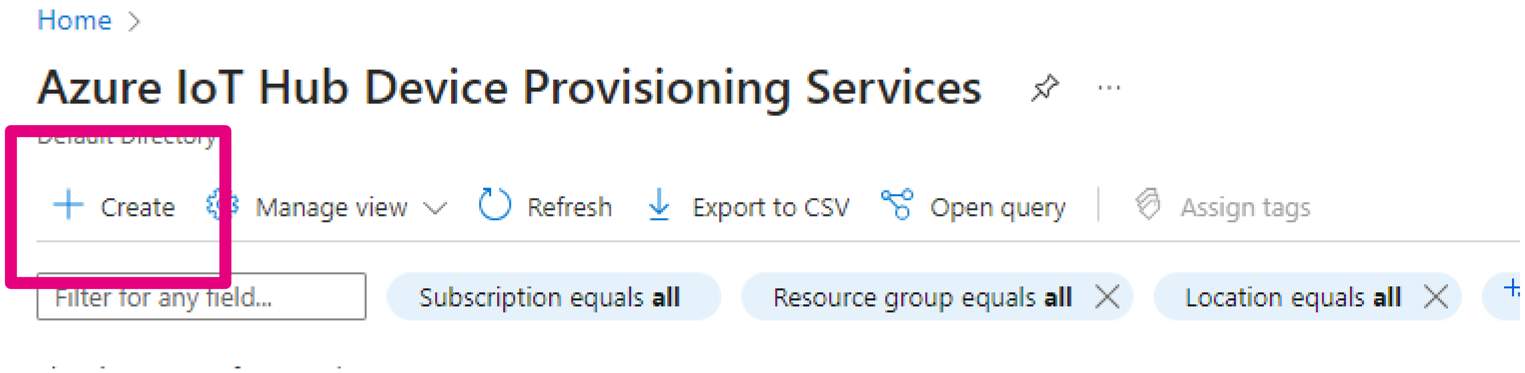
Create a resource ...

Get Started

Recently created

Search services and marketplace

Getting sta



Home >

Azure IoT Hub Device Provisioning Services

Default Directory

+ Create | Manage view | Refresh | Export to CSV | Open query | Assign tags

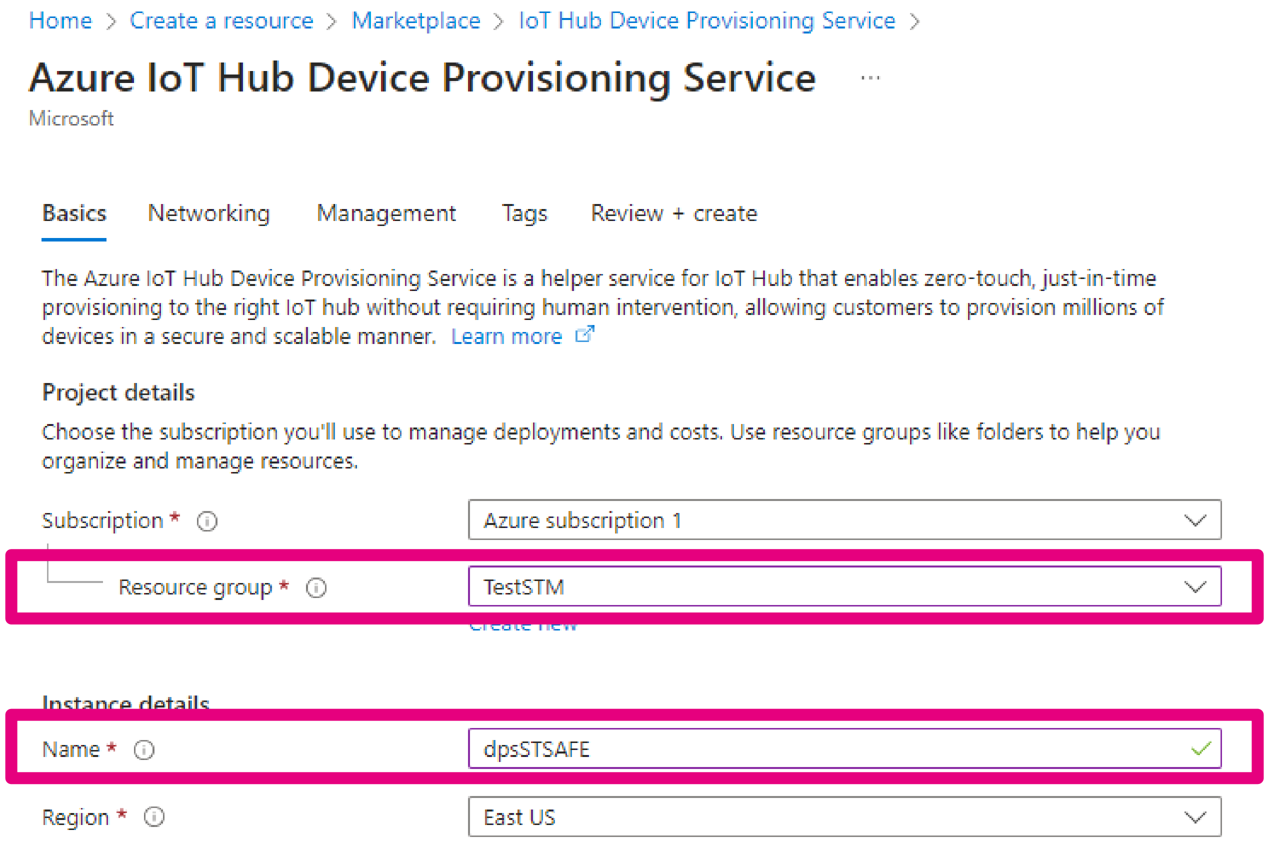
Filter for any field...

Subscription equals **all**

Resource group equals **all**

Location equals **all**

Create a Device Provisioning Service (DPS) in Azure



Home > Create a resource > Marketplace > IoT Hub Device Provisioning Service >

Azure IoT Hub Device Provisioning Service ...

Microsoft

The Azure IoT Hub Device Provisioning Service is a helper service for IoT Hub that enables zero-touch, just-in-time provisioning to the right IoT hub without requiring human intervention, allowing customers to provision millions of devices in a secure and scalable manner. Learn more

Project details

Choose the subscription you'll use to manage deployments and costs. Use resource groups like folders to help you organize and manage resources.

Subscription * : Azure subscription 1

Resource group * : TestSTM

Create new

Instance details

Name * : dpsSTSAFE

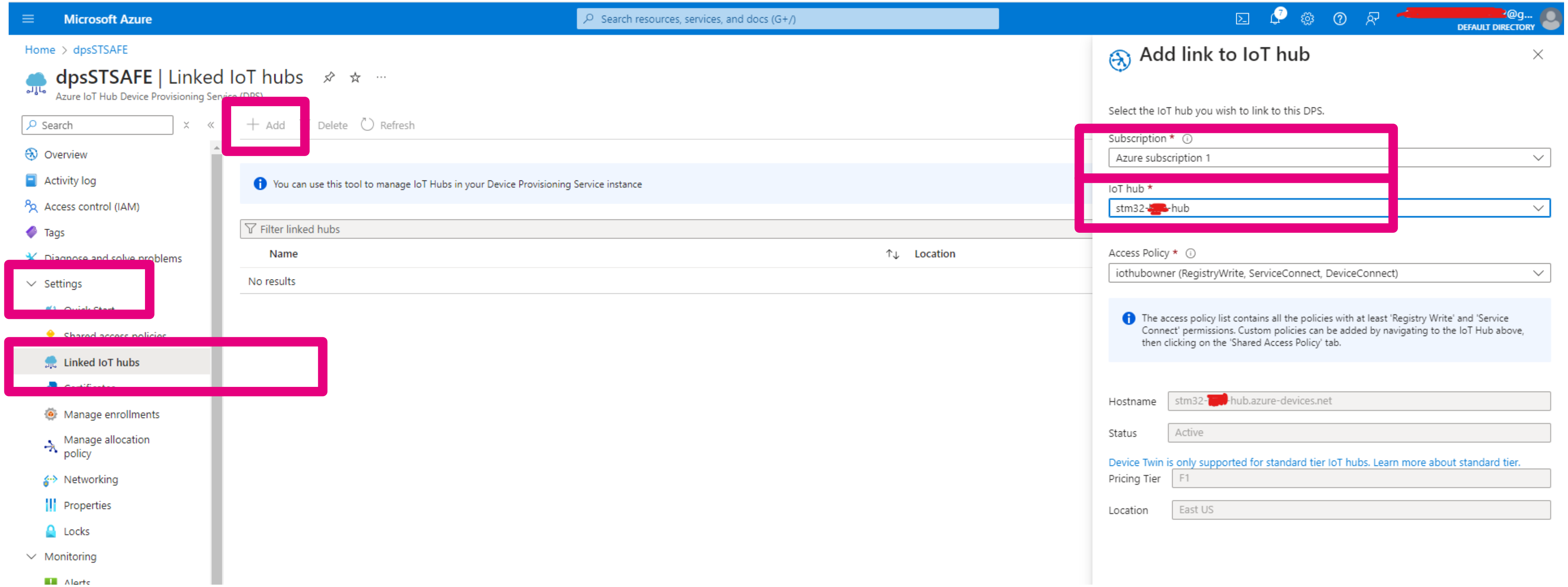
Region * : East US

Link Resource Group, Review and Create DPS

STSECURE Azure

Link the IoT Hub

Open newly created DPS, Link IoT Hub to DPS



You can use this tool to manage IoT Hubs in your Device Provisioning Service instance

No results

Select the IoT hub you wish to link to this DPS.

Subscription * : Azure subscription 1

IoT hub * : stm32-[redacted]-hub

Access Policy * : iothubowner (RegistryWrite, ServiceConnect, DeviceConnect)

The access policy list contains all the policies with at least 'Registry Write' and 'Service Connect' permissions. Custom policies can be added by navigating to the IoT Hub above, then clicking on the 'Shared Access Policy' tab.

Hostname: stm32-[redacted]-hub.azure-devices.net

Status: Active

Device Twin is only supported for standard tier IoT hubs. Learn more about standard tier.

Pricing Tier: F1

Location: East US

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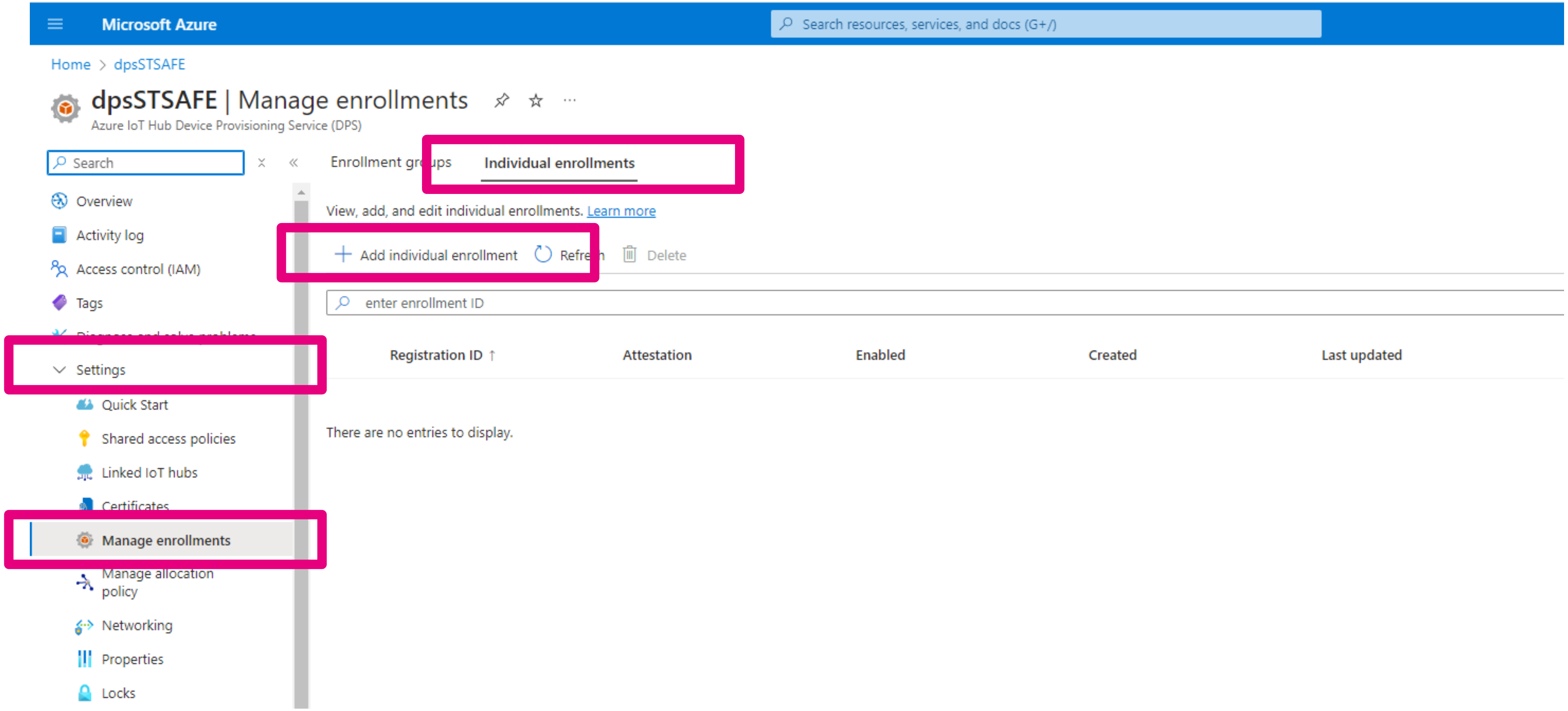
Add individual enrollment in DPS



Microsoft Azure

Search resources, services, and docs (G+/)

Home > dpsSTSAFE

dpsSTSAFE | Manage enrollments

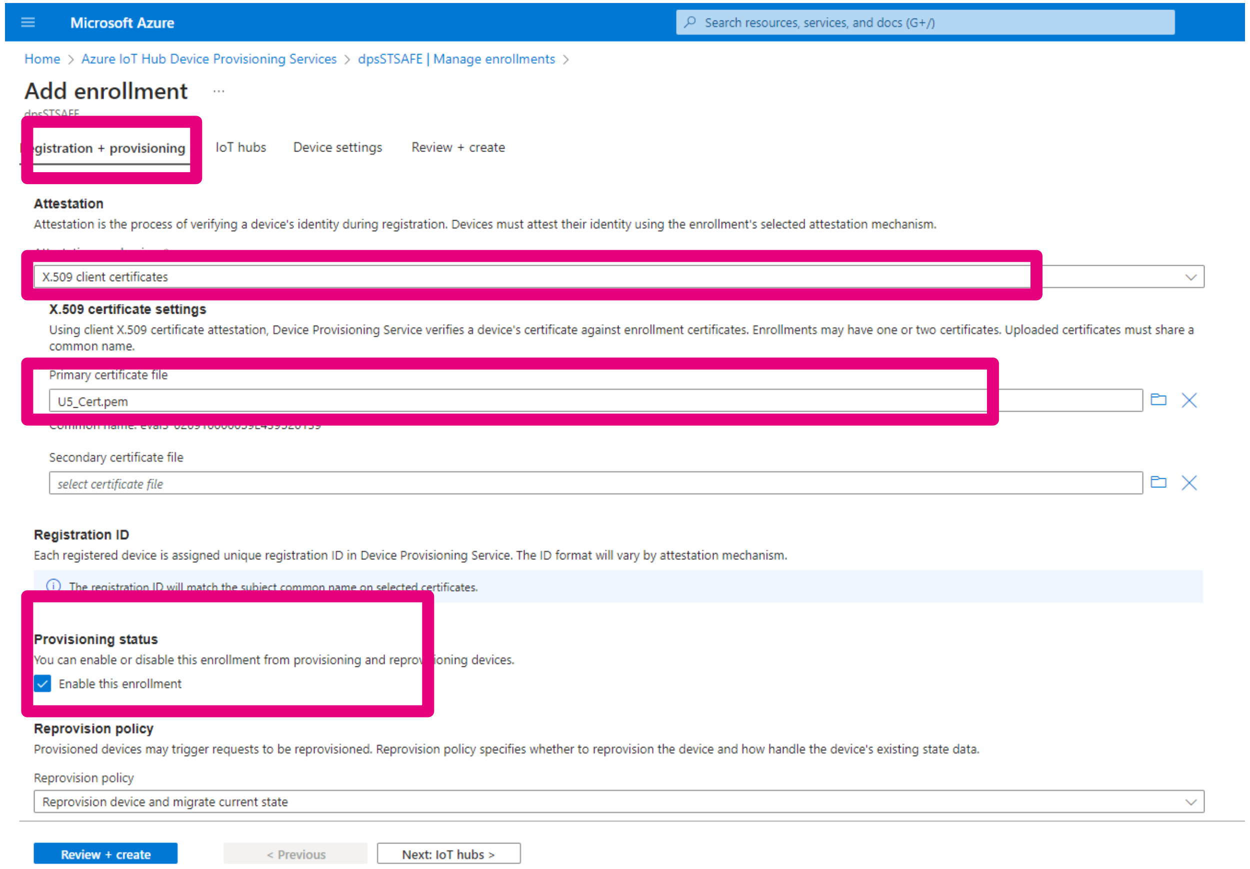
Azure IoT Hub Device Provisioning Service (DPS)

View, add, and edit individual enrollments. Learn more

Registration ID ↑	Attestation	Enabled	Created	Last updated

There are no entries to display.

Add individual enrollment in DPS


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Azure IoT Hub Device Provisioning Services > dpsSTSAFE | Manage enrollments >
gistration + provisioning
IoT hubs
Device settings
Review + create
Review + create
< Previous
Next: IoT hubs >

Add enrollment

dpsSTSAFE

Attestation

Attestation is the process of verifying a device's identity during registration. Devices must attest their identity using the enrollment's selected attestation mechanism.

X.509 client certificates

X.509 certificate settings

Using client X.509 certificate attestation, Device Provisioning Service verifies a device's certificate against enrollment certificates. Enrollments may have one or two certificates. Uploaded certificates must share a common name.

Primary certificate file: U5_Cert.pem

Secondary certificate file: *select certificate file*

Registration ID

Each registered device is assigned unique registration ID in Device Provisioning Service. The ID format will vary by attestation mechanism.

The registration ID will match the subject common name on selected certificates.

Provisioning status

You can enable or disable this enrollment from provisioning and reprovisioning devices.

☑ Enable this enrollment

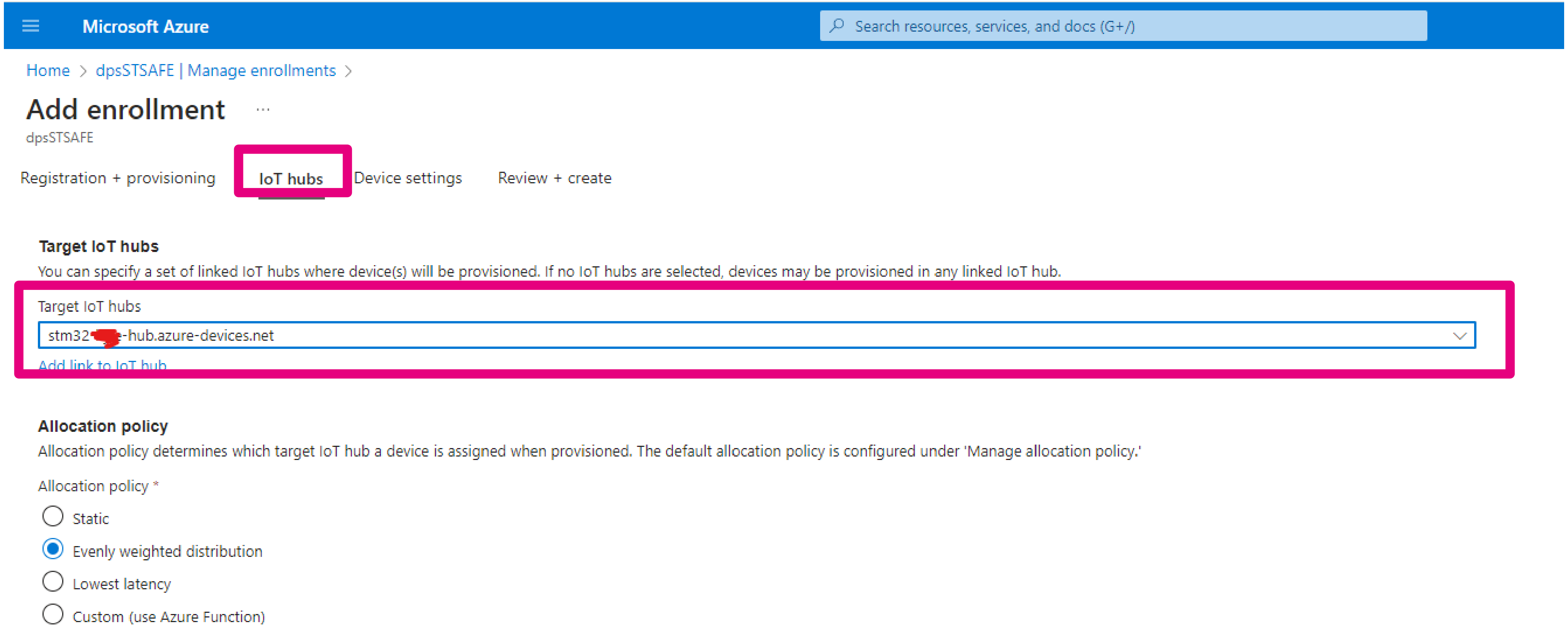
Reprovision policy

Provisioned devices may trigger requests to be reprovisioned. Reprovision policy specifies whether to reprovision the device and how handle the device's existing state data.

Reprovision policy: Reprovision device and migrate current state

Select X.509 client certificates, load Certificate copied/saved from U5 output

Link Hub to individual enrollment in DPS



Microsoft Azure
Search resources, services, and docs (G+/)
Home > dpsSTSAFE | Manage enrollments >

Add enrollment

dpsSTSAFE

Registration + provisioning | IoT hubs | Device settings | Review + create

Target IoT hubs

You can specify a set of linked IoT hubs where device(s) will be provisioned. If no IoT hubs are selected, devices may be provisioned in any linked IoT hub.

Target IoT hubs: stm32[redacted]-hub.azure-devices.net

Add link to IoT hub

Allocation policy

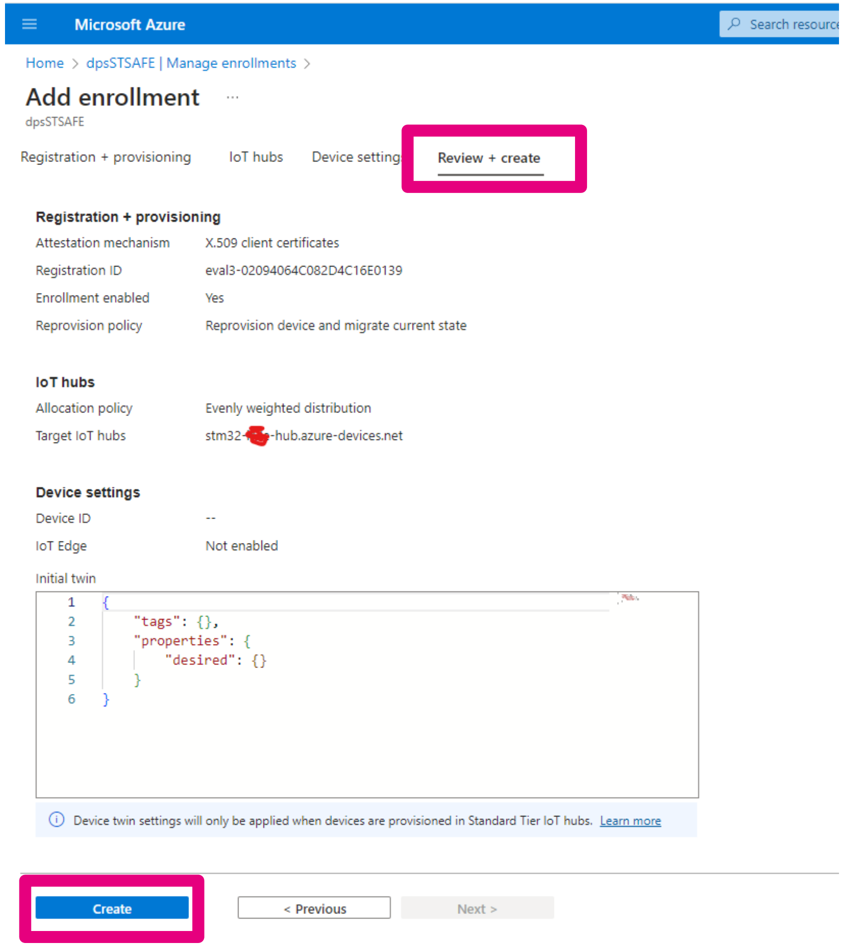
Allocation policy determines which target IoT hub a device is assigned when provisioned. The default allocation policy is configured under 'Manage allocation policy.'

Allocation policy *

○ Static
● Evenly weighted distribution
○ Lowest latency
○ Custom (use Azure Function)

Link IoT Hub in enrollment

Create individual enrollment in DPS



Home > dpsSTSAFE | Manage enrollments >

Add enrollment ...

dpsSTSAFE

Registration + provisioning

Attestation mechanism X.509 client certificates

Registration ID eval3-02094064C082D4C16E0139

Enrollment enabled Yes

Reprovision policy Reprovision device and migrate current state

IoT hubs

Allocation policy Evenly weighted distribution

Target IoT hubs stm32-[redacted]-hub.azure-devices.net

Device settings

Device ID --

IoT Edge Not enabled

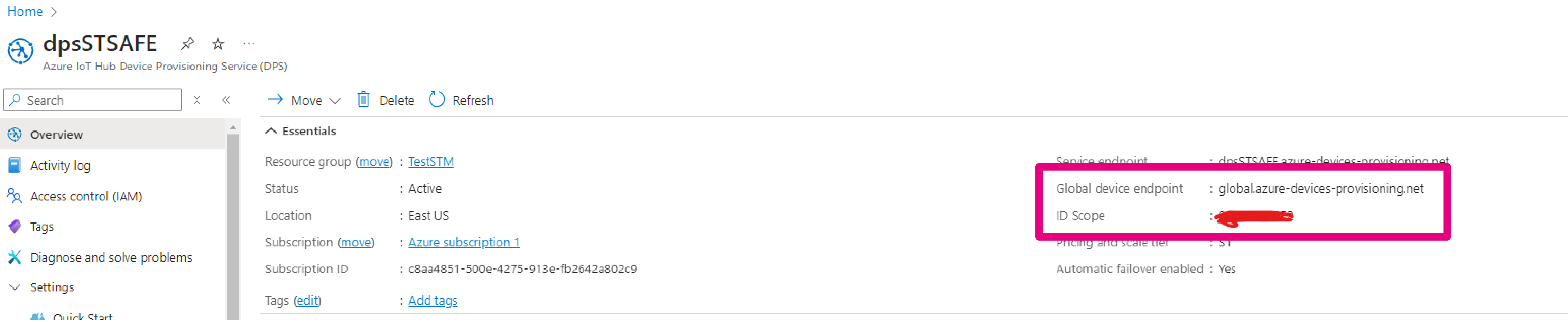
Initial twin

```
{
    "tags": {},
    "properties": {
        "desired": {}
    }
}
```

Device twin settings will only be applied when devices are provisioned in Standard Tier IoT hubs. Learn more

Test Hub

Follow the package instructions to compile, program, and set Endpoint/WiFi/ID Scope details.
The Endpoint and ID Scope are found on the DPS Overview page



Home >

dpsSTSAFE

Azure IoT Hub Device Provisioning Service (DPS)

Resource group (move) : TestSTM

Status : Active

Location : East US

Subscription (move) : Azure subscription 1

Subscription ID : c8aa4851-500e-4275-913e-fb2642a802c9

Tags (edit) : Add tags

Service endpoint : dpsSTSAFE.azure-devices-provisioning.net

Global device endpoint : global.azure-devices-provisioning.net

ID Scope : [redacted]

Pricing and scale tier : S1

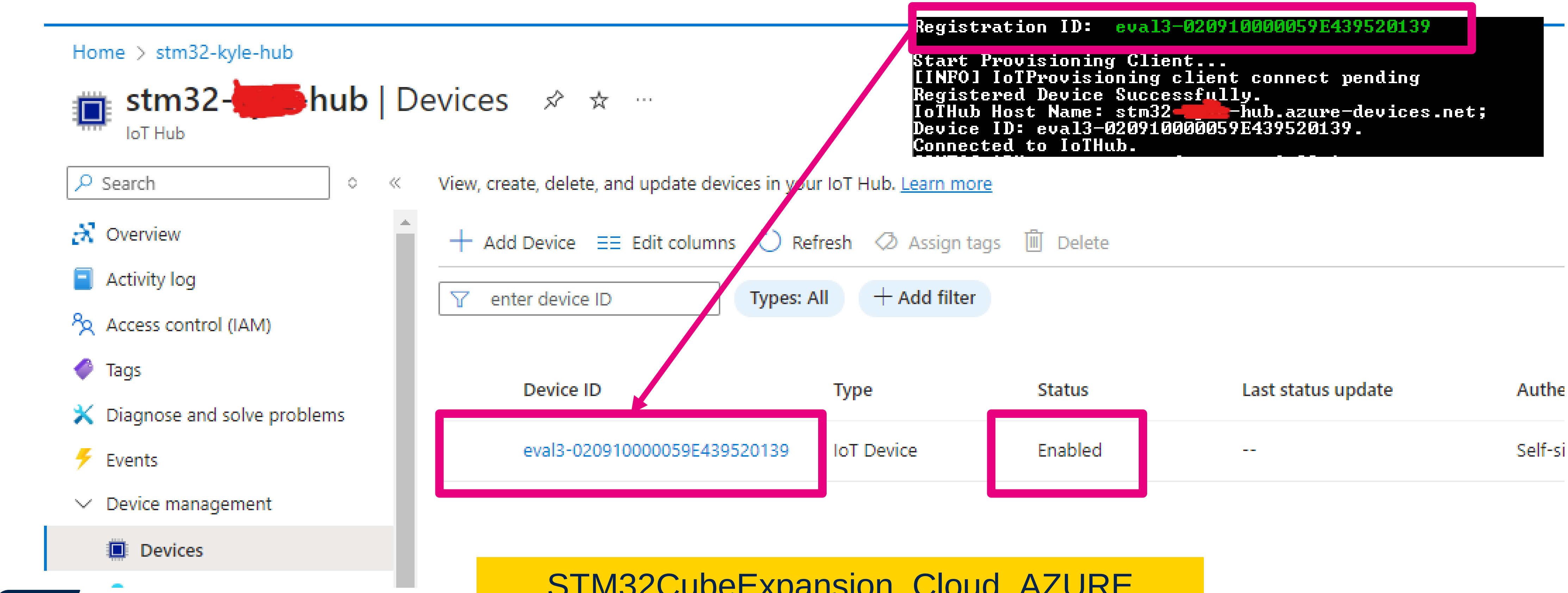
Automatic failover enabled : Yes

STM32CubeExpansion_Cloud_AZURE
B-U585I-IOT02A Azure Demonstration Code

Test Hub

Azure

Once you have configured package, it should automatically connect, create, and enable a device using the certificate common name



```
Registration ID:  eval3-020910000059E439520139
Start Provisioning Client...
[INFO] IoTProvisioning client connect pending
Registered Device Successfully.
IoTHub Host Name: stm32[redacted]-hub.azure-devices.net;
Device ID: eval3-020910000059E439520139.
Connected to IoTHub.
```

Home > stm32-kyle-hub

stm32-[redacted]hub | Devices

IoT Hub

View, create, delete, and update devices in your IoT Hub. Learn more

Device ID	Type	Status	Last status update	Authe
eval3-020910000059E439520139	IoT Device	Enabled	--	Self-si

STM32CubeExpansion_Cloud_AZURE
B-U585I-IOT02A Azure Demonstration Code

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