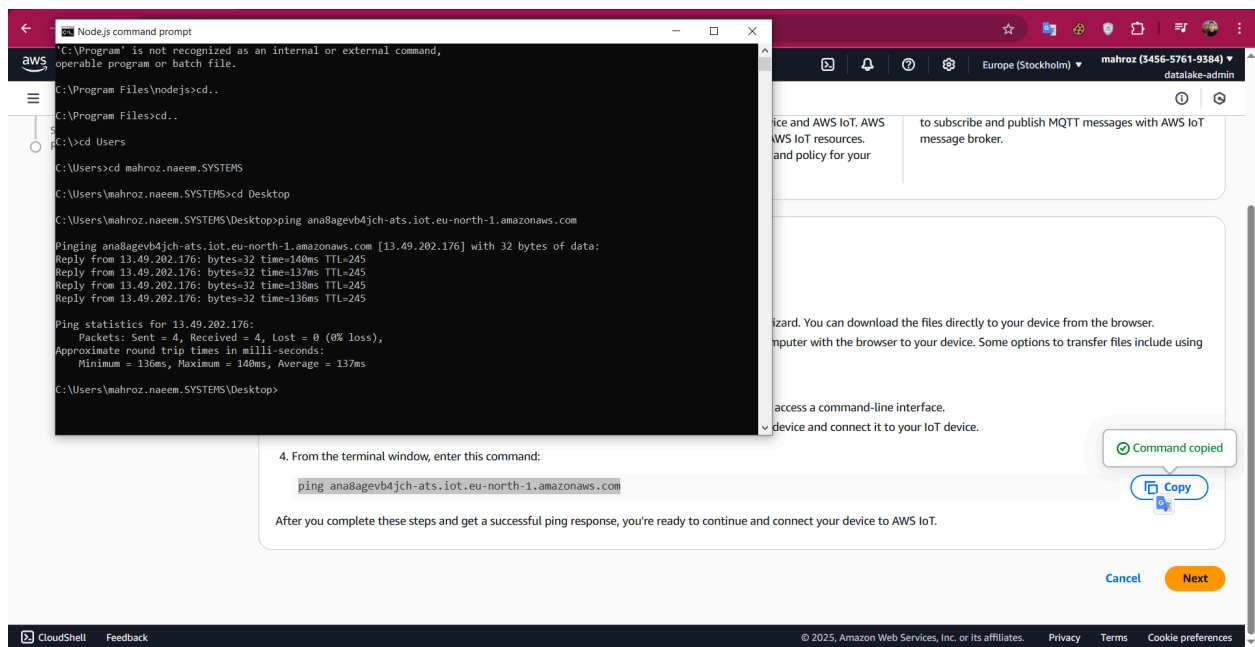
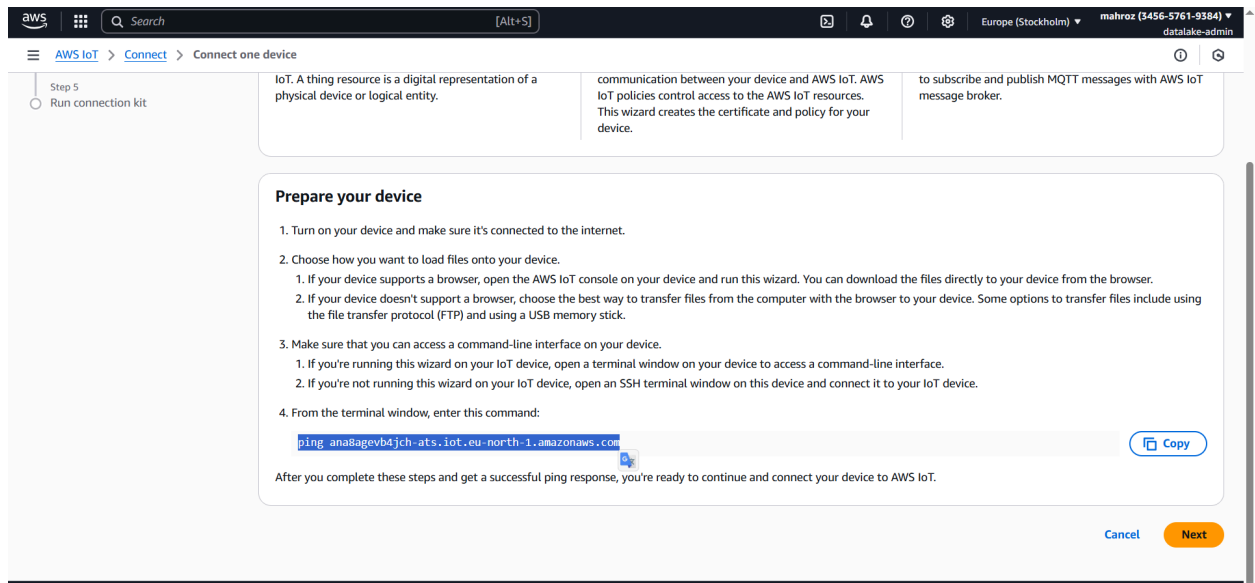


# AWS IoT

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AWS IoT features further.

Thing properties

Create a new thing

Choose an existing thing

Thing name

iotLaptop

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

Certificate and policy for your device

Your device requires a unique device certificate to securely authenticate its identity to AWS IoT, and an AWS IoT policy that authorizes it to send and receive messages. We'll create these resources for your device automatically. You can review and edit their properties later, if necessary.

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Choose platform and SDK

Choose the software for your device

This wizard helps you download a software development kit (SDK) to your device. AWS IoT supports Device SDKs that run on your device and include a sample program that publishes and subscribes to MQTT messages. AWS IoT supports Device SDKs in the languages shown below.

Platform and SDK

Choose the platform OS and AWS IoT Device SDK that you want to use for your device.

Device platform operating system

This is the operating system installed on the device that will connect to AWS.

Linux / macOS

Linux version: any  
macOS version: 10.13+

Windows

Version 10

AWS IoT Device SDK

Choose a Device SDK that's in a language your device supports.

Node.js

Version 10+  
Requires Node.js and npm to be installed

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Install the software on your device





The connection kit includes the AWS IoT resources that your device needs to connect to AWS IoT. When you download the kit, you'll receive a zipped file containing a certificate, private key, policy, and device SDK. Install these resources on your device to establish the connection. After downloading the connection kit, you can modify the policy to adjust your device's permissions.

Connection kit

Certificate

iotLaptop.cert.pem

Script to send and receive messages

start.ps1

Private key

iotLaptop.private.key

Policy

iotLaptop-Policy

[View policy](#)

AWS IoT Device SDK

Node.js

Download

If you are running this from a browser on the device, after you download the connection kit, it will be in the browser's download folder.

If you are not running this from a browser on your device, you'll need to transfer the connection kit from your browser's download folder to your device using the method you tested when you prepared your device in step 1.

[Download connection kit](#)

Unzip connection kit on your device

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Run connection kit

[Info](#)

How to display messages from your device

Step 1: Add execution permissions

On the device, launch a terminal window to copy and paste the command to add execution permissions.

chmod +x start.sh

[Copy](#)

Step 2: Run the start script

On the device, copy and paste the command to the terminal window and run the start script.

./start.sh

[Copy](#)

Step 3: Return to this screen to view your device's messages

After running the start script, return to this screen to see the messages between your device and AWS IoT. The messages from your device appear in the following list.

Subscriptions

sdks/test/js

sdks/test/js

Waiting for messages

[Pause](#)

[Clear](#)

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```
##### 100.0%
==> Fetching c-ares
==> Downloading https://ghcr.io/v2/homebrew/core/c-ares/blobs/sha256:76858a7f6dd
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libnghttp2/manifests/1.65.0
##### 100.0%
==> Fetching libnghttp2
==> Downloading https://ghcr.io/v2/homebrew/core/libnghttp2/blobs/sha256:492e6da
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libuv/manifests/1.51.0
##### 100.0%
==> Fetching libuv
==> Downloading https://ghcr.io/v2/homebrew/core/libuv/blobs/sha256:916f444748e9
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/ca-certificates/manifests/2025-
##### 100.0%
==> Fetching ca-certificates
==> Downloading https://ghcr.io/v2/homebrew/core/ca-certificates/blobs/sha256:dd
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/openssl/3/manifests/3.5.0
##### 100.0%
==> Fetching openssl3
==> Downloading https://ghcr.io/v2/homebrew/core/openssl/3/blobs/sha256:7bbac0e8
##### 100.0%
==> Fetching node
==> Downloading https://ghcr.io/v2/homebrew/core/node/blobs/sha256:5e18a14319226
##### 100.0%
==> Installing dependencies for node: brotli, c-ares, libnghttp2, libuv, ca-certificates and openssl3
==> Installing node dependency: brotli
==> Downloading https://ghcr.io/v2/homebrew/core/brotli/manifests/1.1.0-2
Already downloaded: /Users/alinaeem/Library/Caches/Homebrew/downloads/72b36368116298518fd6e6438dfbe8cb541d8db2d33e279683bbdb4b79c73e0d--brotli-1.1.0-2.bottle_manifest.json
==> Pouring brotli--1.1.0.arm64.sequoia.bottle.2.tar.gz
📦 /opt/homebrew/Cellar/brotli/1.1.0: 28 files, 1.7MB
==> Installing node dependency: c-ares
==> Downloading https://ghcr.io/v2/homebrew/core/c-ares/manifests/1.34.5-1
Already downloaded: /Users/alinaeem/Library/Caches/Homebrew/downloads/c52b1c91460667312755a235f78ac192a45bfff39befbba6da9aa72a17263c559--c-ares-1.34.5-1.bottle_manifest.json
==> Pouring c-ares--1.34.5.arm64.sequoia.bottle.1.tar.gz
📦 /opt/homebrew/Cellar/c-ares/1.34.5: 176 files, 1MB
==> Installing node dependency: libnghttp2
==> Downloading https://ghcr.io/v2/homebrew/core/libnghttp2/manifests/1.65.0
Already downloaded: /Users/alinaeem/Library/Caches/Homebrew/downloads/5a72f09f57dd728c5dd638917849ae1511c3b440595f5694738ec9434c12427--libnghttp2-1.65.0.bottle_manifest.json
==> Pouring libnghttp2--1.65.0.arm64.sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libnghttp2/1.65.0: 14 files, 767KB
==> Installing node dependency: libuv
==> Downloading https://ghcr.io/v2/homebrew/core/libuv/manifests/1.51.0
Already downloaded: /Users/alinaeem/Library/Caches/Homebrew/downloads/25bd9f2f86d04701dc8ca247bea2e4e365a150e29648418d48dfca4c8c130ea--libuv-1.51.0.bottle_manifest.json
==> Pouring libuv--1.51.0.arm64.sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libuv/1.51.0: 20 files, 1.2MB
==> Installing node dependency: ca-certificates
==> Downloading https://ghcr.io/v2/homebrew/core/ca-certificates/manifests/2025-
Already downloaded: /Users/alinaeem/Library/Caches/Homebrew/downloads/bc18acc15e0abddc102f828b57a29cfdbec1bb6b002db37ad12bad9dbf0e9d12f--ca-certificates-2025-05-20.bottle_manifest.json
==> Pouring ca-certificates--2025-05-20.all.bottle.tar.gz
Regenerating CA certificate bundle from keychain, this may take a while...
📦 /opt/homebrew/Cellar/ca-certificates/2025-05-20: 4 files, 225.8KB
==> Installing node dependency: openssl3
==> Downloading https://ghcr.io/v2/homebrew/core/openssl/3/manifests/3.5.0
Already downloaded: /Users/alinaeem/Library/Caches/Homebrew/downloads/d3c8243df37f69247721b1d8ac51e1a8af6d664b832423921ff9dbb2bb381a--openssl3-3.5.0.bottle_manifest.json
==> Pouring openssl3--3.5.0.arm64.sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/openssl3/3.5.0: 7,563 files, 35.4MB
==> Installing node
==> Pouring node--23.11.0.arm64.sequoia.bottle.1.tar.gz
📦 /opt/homebrew/Cellar/node/23.11.0: 2,602 files, 72.7MB
==> Running 'brew cleanup node'...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
```

- Step 1 Prepare your device
- Step 2 Register and secure your device
- Step 3 Choose platform and SDK
- Step 4 Download connection kit
- Step 5 **Run connection kit**

## Run connection kit [Info](#)

### How to display messages from your device

#### Step 1: Add execution permissions

On the device, launch a terminal window to copy and paste the command to add execution permissions.

```
chmod +x start.sh
```

[Copy](#)

```
...  
./start.sh  
chmod +x start.sh
```



#### Step 2: Run the start script

On the device, copy and paste the command to the terminal window and run the start script.

```
./start.sh
```

[Copy](#)

#### Step 3: Return to this screen to view your device's messages

After running the start script, return to this screen to see the messages between your device and AWS IoT. The messages from your device appear in the following list.

#### Subscriptions

[sdk/test/js](#)

#### sdk/test/js

[Pause](#)[Clear](#)

##### ▼ sdk/test/js

May 24, 2025, 13:19:34 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 10  
}
```

##### ▼ sdk/test/js

May 24, 2025, 13:19:33 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 9  
}
```

#### Subscriptions

[sdk/test/js](#)

#### sdk/test/js

[Pause](#)[Clear](#)

##### ▼ sdk/test/js

May 24, 2025, 13:19:34 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 10  
}
```

##### ▼ sdk/test/js

May 24, 2025, 13:19:33 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 9  
}
```

##### ▼ sdk/test/js

May 24, 2025, 13:19:32 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 8  
}
```

##### ▼ sdk/test/js

May 24, 2025, 13:19:31 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 7  
}
```

##### ▼ sdk/test/js

May 24, 2025, 13:19:30 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 6  
}
```

##### ▼ sdk/test/js

May 24, 2025, 13:19:29 (UTC+05:00)

```
{  
  "message": "Hello world!",  
  "sequence": 5  
}
```