

## Quarklink Getting Started Guide

This guide shows you how to use the Getting Started example with Quarklink.

The steps involved are:

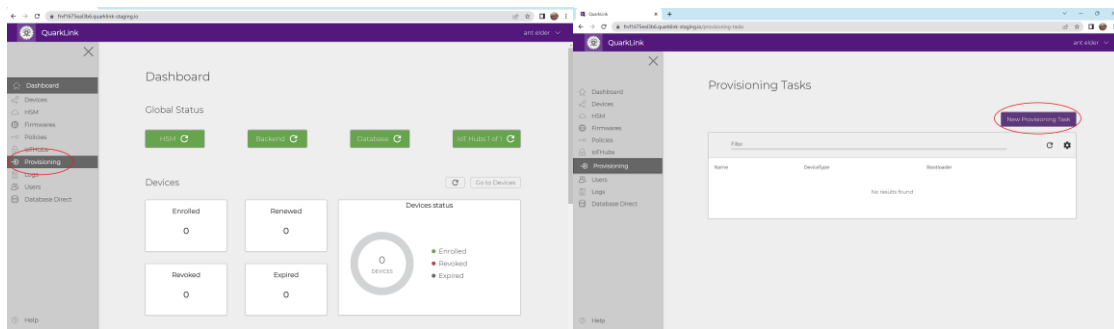
- 1) Create a new Provisioning Task
- 2) Run the Provisioning Task on a device
- 3) Upload firmware to Quarklink associate with the device

The result is an ESP32 that is using secure boot, flash encryption, a Root-of-Trust, and which can only be updated Over-The-Air with firmware signed by a key from the Quarklink Hardware Security Module (HSM).

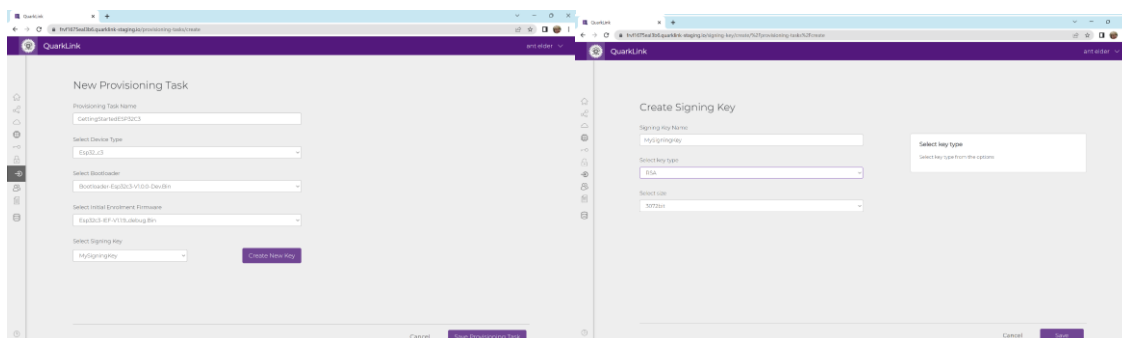
### 1) Create a new Provisioning Task

A Provisioning Task defines how to configure a secure device, including the boot loader, signing key, and the Initial Enrolment Firmware which is what initializes the device's Root-of-Trust.

On the Quarklink left menu choose Provisioning and then New Provisioning Task:

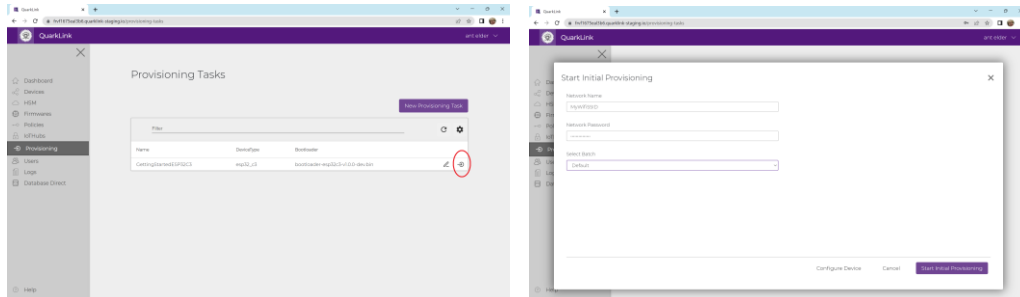


On the New Provisioning Task page fill in the details for your device type, for example, here it is using an ESP32-C3. If you have not yet created a Signing Key then click the Create New Key button to create one.

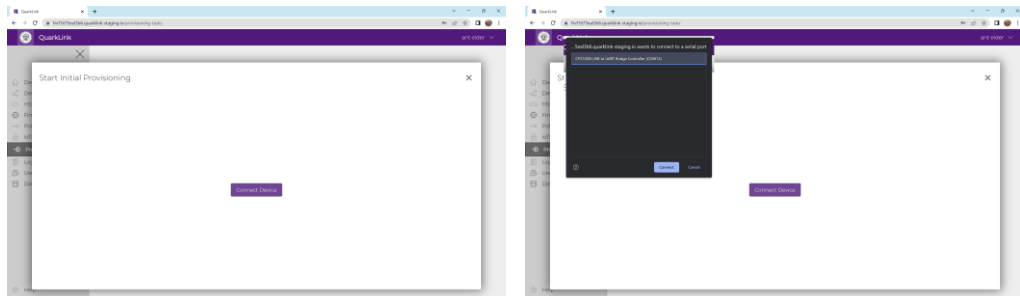


## 2) Run the Provisioning Task on a device

Now you can run the Provisioning Task to configure your devices. On the right of the page, click the Run button for the Provisioning Task:



Click the Start Initial Provisioning button and connect the device to a USB port:



The device will now be configured to be secure and with firmware that initializes its Root-of-Trust and Quarklink details and then waits polling for a firmware update.

## 3) Upload firmware to Quarklink associate with the device