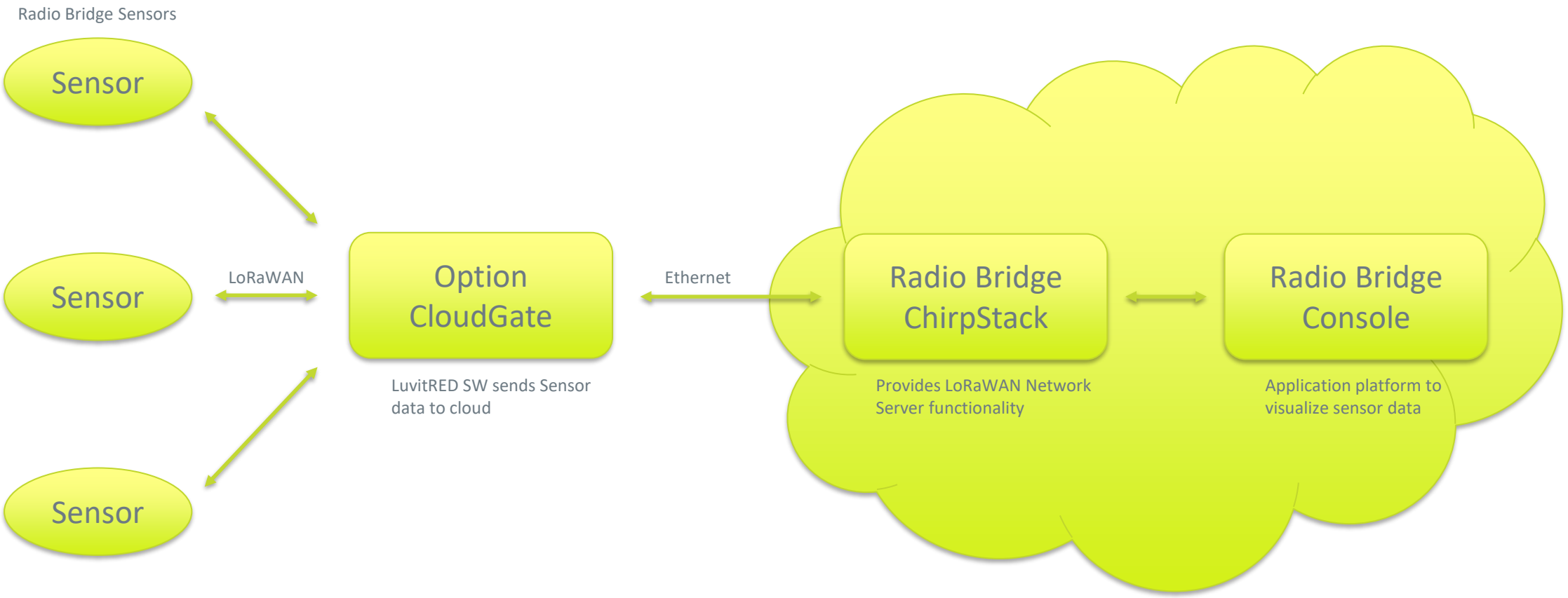
GetWireless

LoRa Demo Kit

• User Instructions •

Basic LoRaWAN Architecture

- An example using Radio Bridge's existing cloud infrastructure:



Note: Several LoRaWAN sensor manufacturers will also provide their own cloud software

Quickstart User Configuration Steps

- Open the Demo Kit and verify the contents
- 3 steps:
  1. CloudGate Setup:
     - Connect the LoRa antenna to the gateway
     - Connect the supplied Ethernet cable to an Internet connected router
     - Connect the power supply to the gateway
     - Plug the power supply into the wall

  2. Platform Setup
     - Open a browser to console.radiobridge.com
     - Register for a free account
     - Add your gateway device to the account
     - Add the three sensors to your account

  3. Enable sensors
     - Pull the battery tabs out of the sensors
     - Verify sensor data appears on the Radio Bridge Console

Detailed User Configuration Steps

- Open the Demo Kit and verify the contents
- 3 steps:
  1. CloudGate Setup
  2. Platform Setup
  3. Enable sensors

1. Gateway Setup

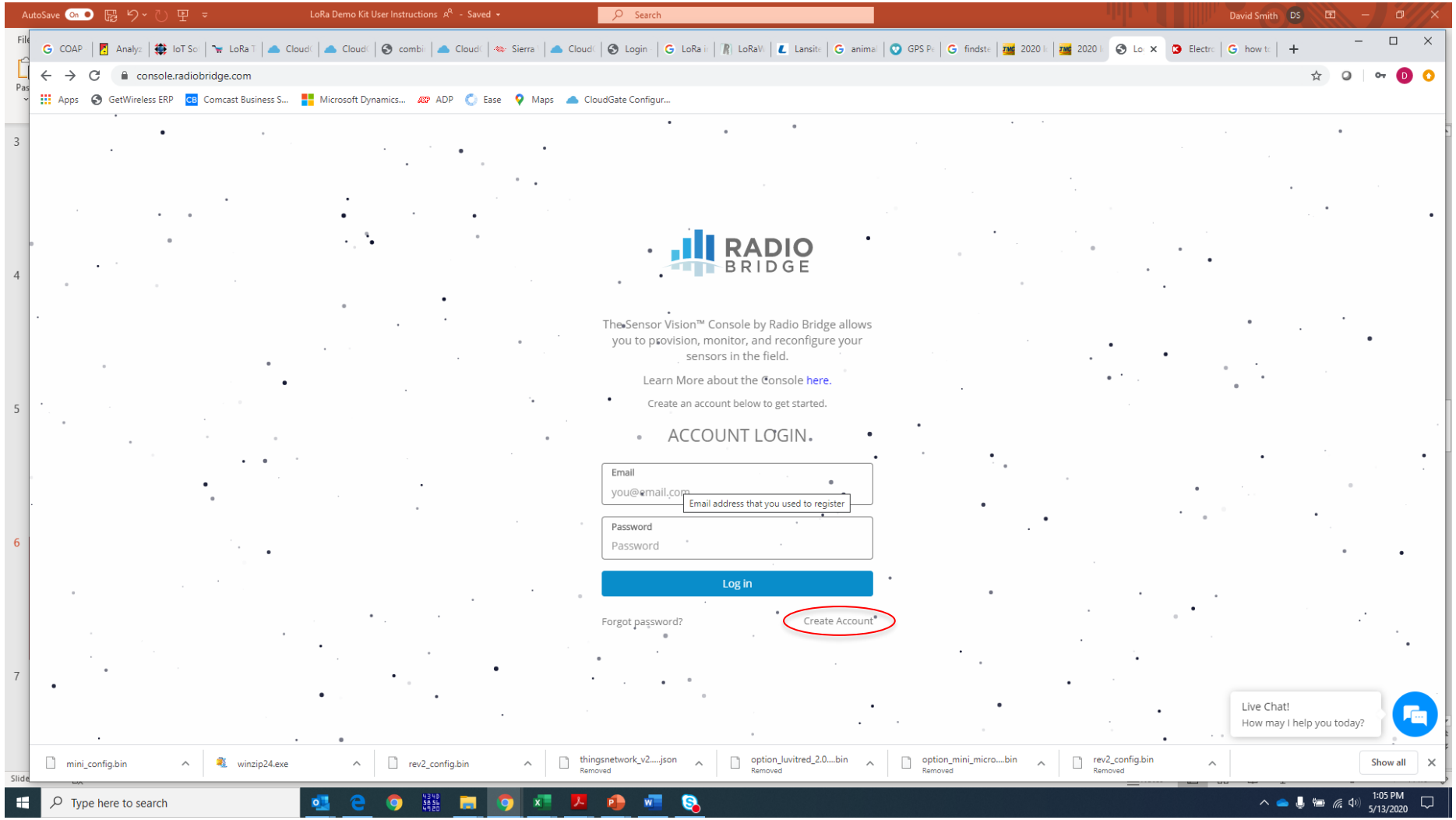
CloudGate Setup:

- Connect the LoRa antenna to the gateway
  - Match the color coded antenna and SMA connectors
- Connect the supplied Ethernet cable to an Internet connected router
- Connect the power supply to the gateway
  - Please refer to the drawing for correct orientation
- Plug the power supply into the wall

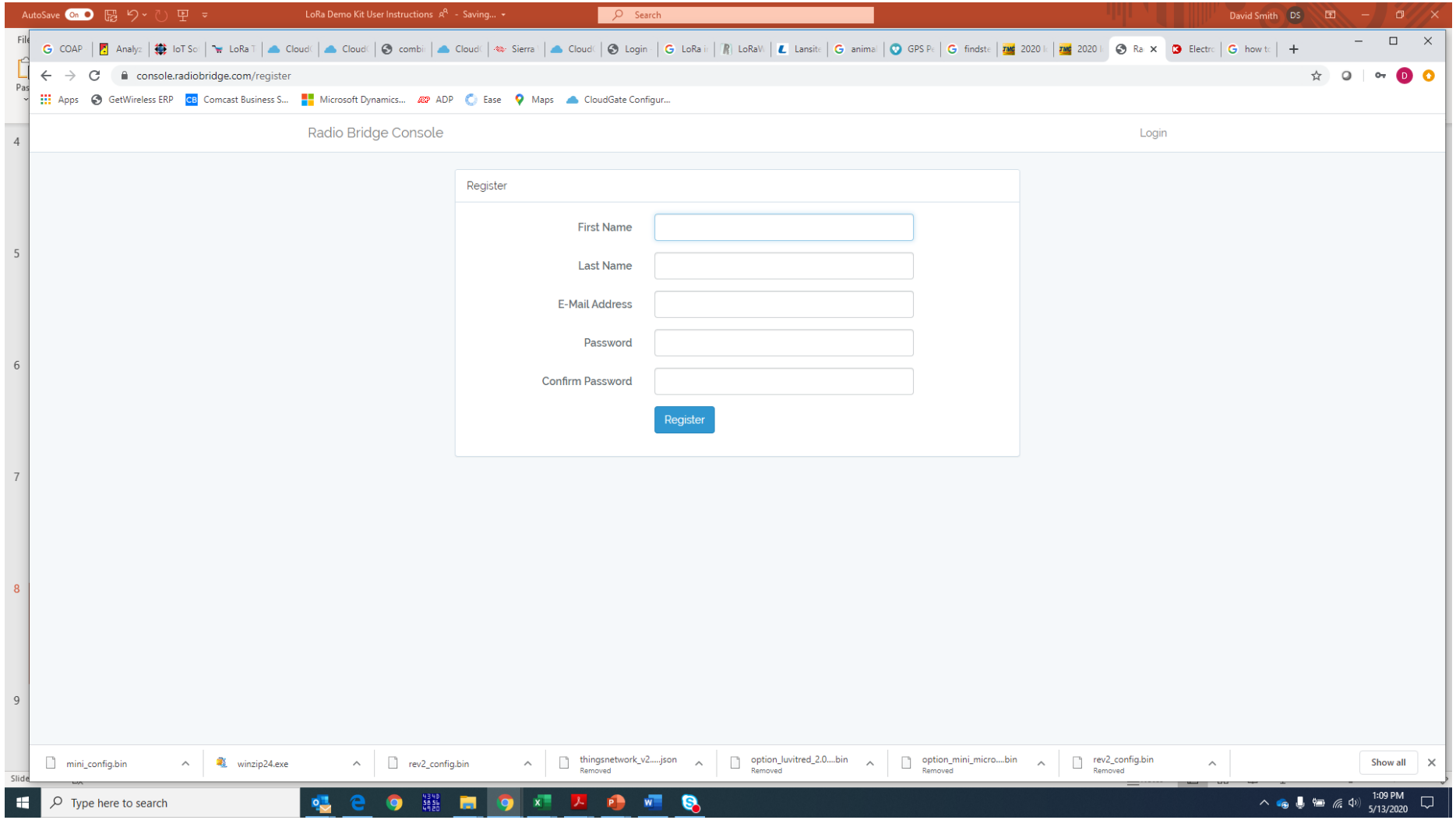
2. Platform Setup - Account

- Connect to Radio Bridge Console:
  - Point web browser to **console.radiobridge.com**
  - Click on Create Account
    - Enter First Name, Last Name, Email Address
    - Enter in a Password and Confirm Password
    - Agree to the User Agreement
  - Activate your new account by clicking on link in confirmation email
  - This will have you end up at the Devices page of the Radio Bridge Console

Radio Bridge Login Page



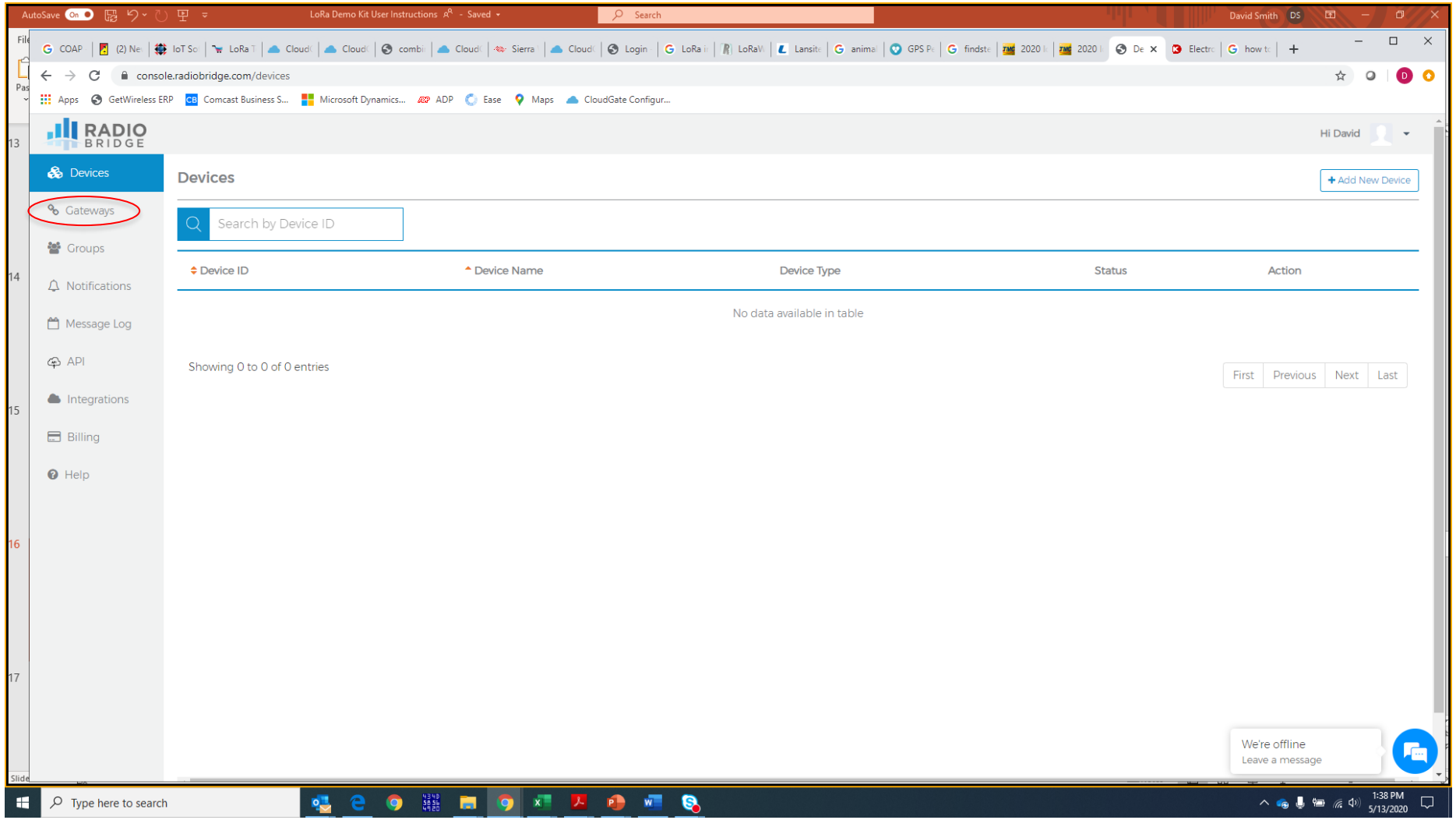
Radio Bridge Registration Page



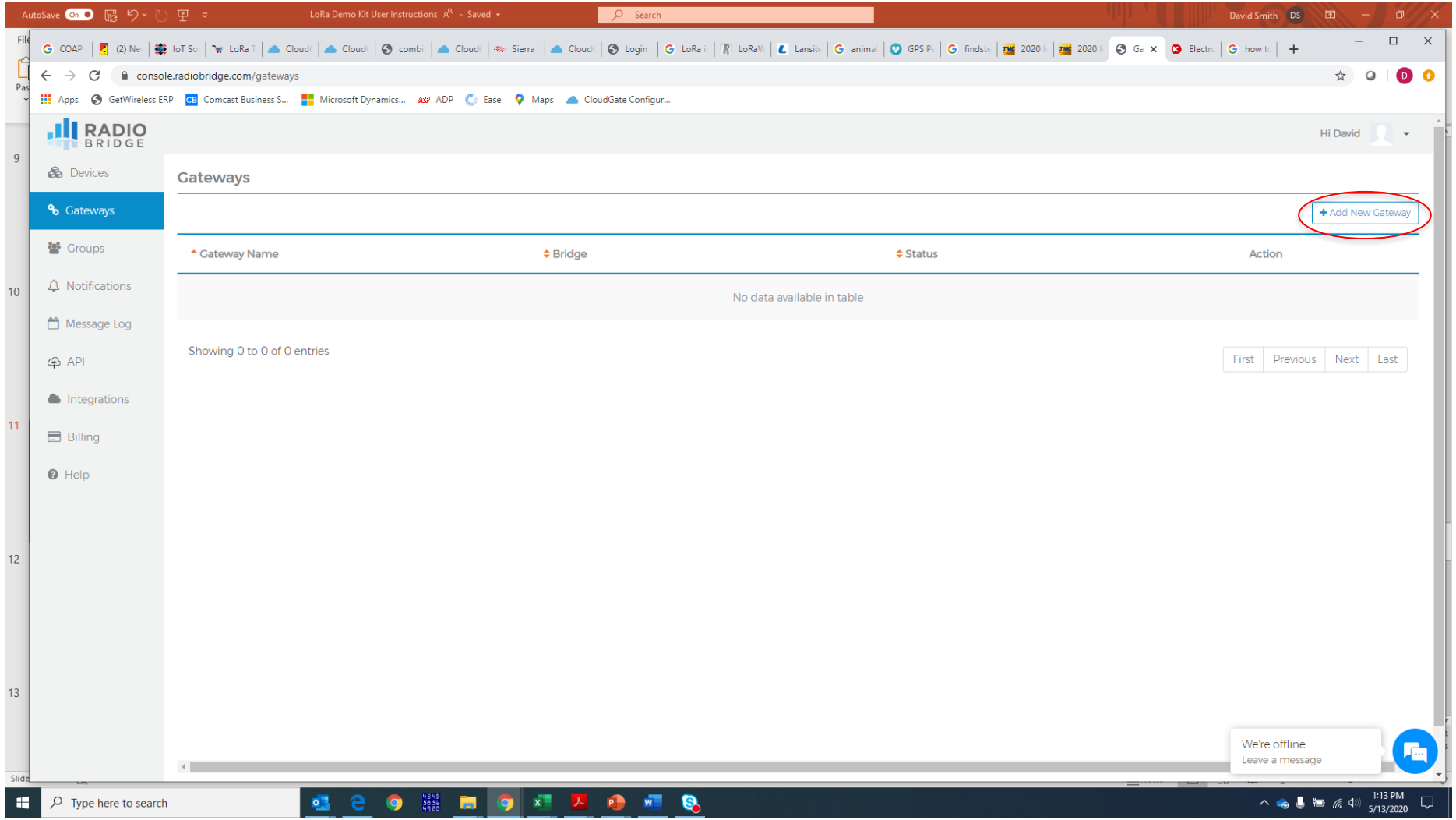
2. Platform Setup - Gateway

- Click on **Gateways** in left navigation menu
  - Click on **Add New Gateway**
    - Click on **Add Gateway** under ChirpStack
    - Fill in a gateway name of your choice
    - Fill in a gateway description
    - Enter the ID of the gateway provided in the Kit
    - Click **Register gateway**

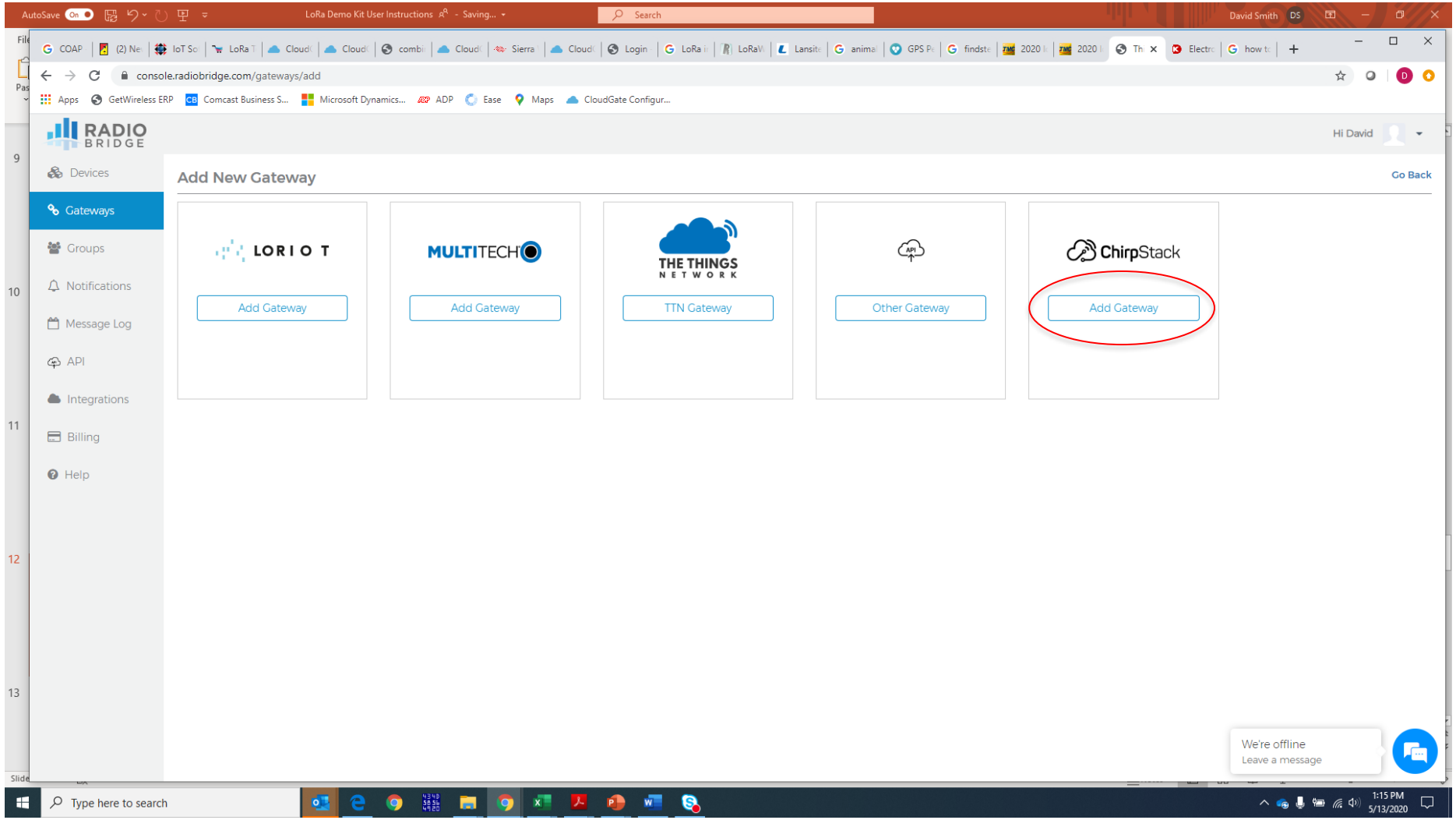
Radio Bridge Devices Page



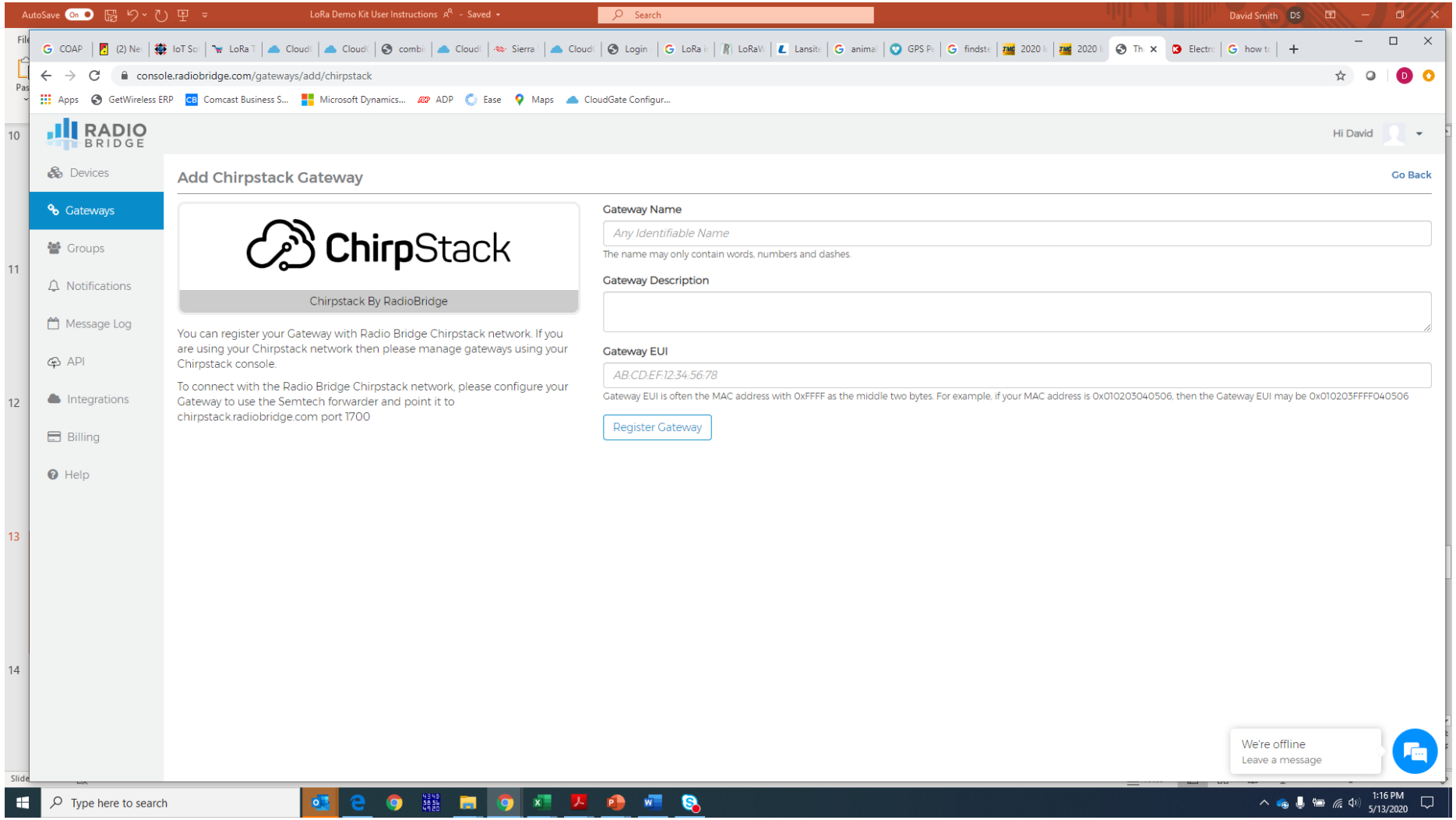
Radio Bridge Gateways Page



Radio Bridge Add a New Gateway Page



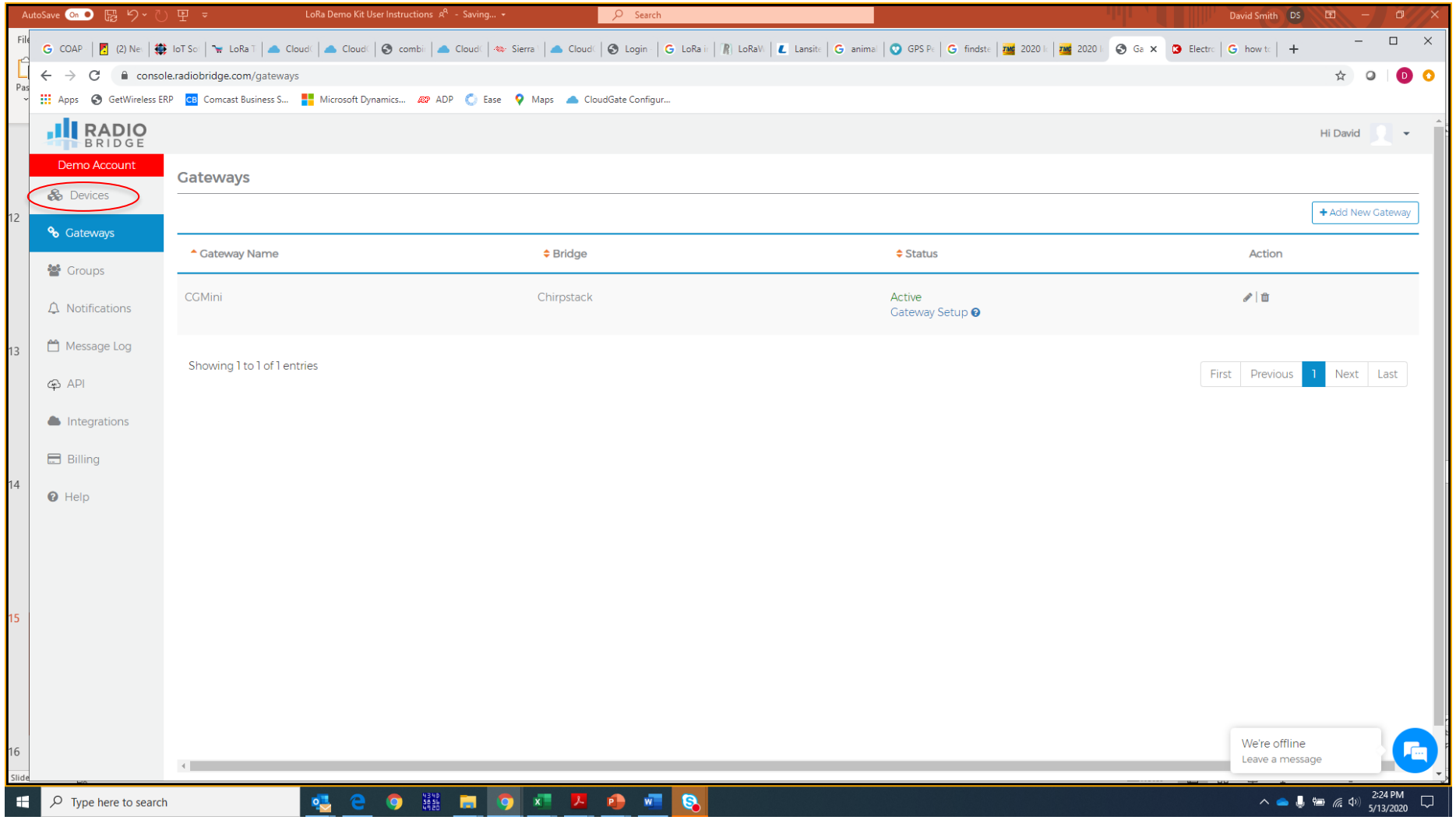
Radio Bridge Add New Gateway Information Page



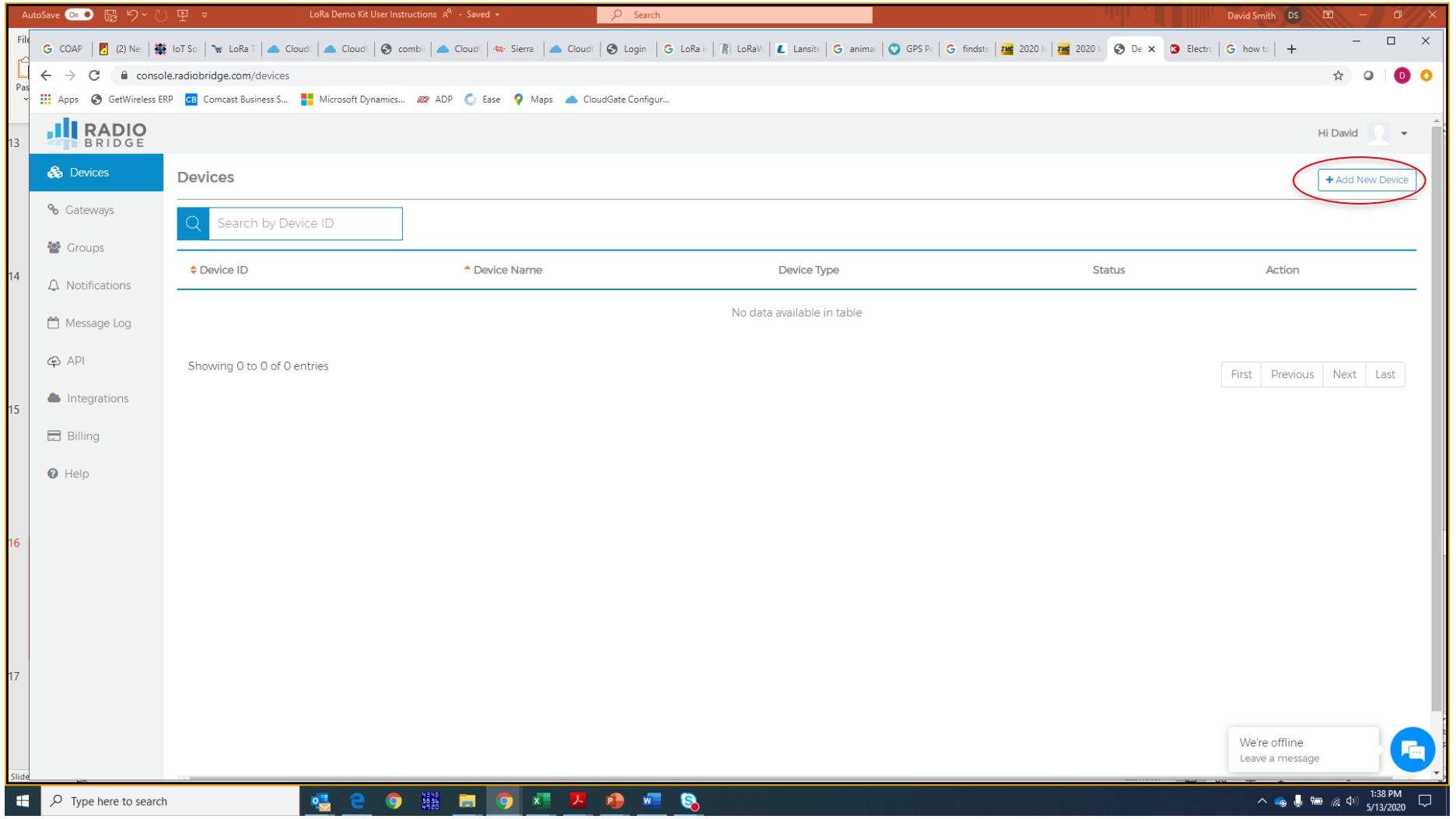
2. Platform Setup - Sensors

- Click on **Devices** in left navigation menu
  - Click on **Add New Device** (repeat for each sensor)
    - Click on the **ChirpStack** square
      - » Click **Register through Radio Bridge**
      - » Click **Next**
    - Fill in a device name of your choice
    - Enter the 16 hex digit Device ID from the sticker on the sensor
    - Enter the 32 hex digit Device Key from the sticker on the sensor
    - Select the correct device type from the pull-down menu
      - » Click **Next**
    - Confirm the data entered is correct for your sensor
      - » Click **Confirm**

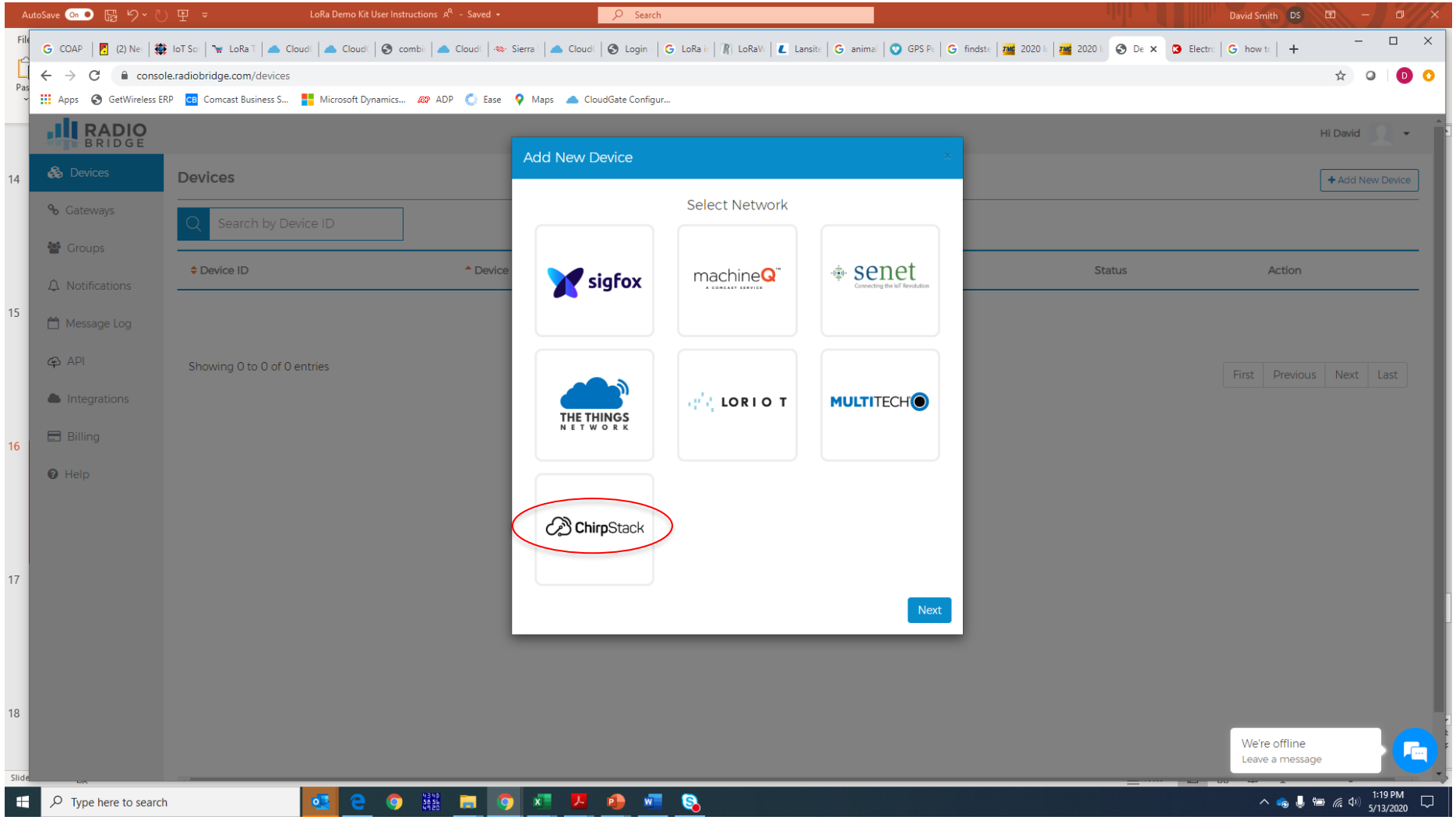
Radio Bridge Devices Page



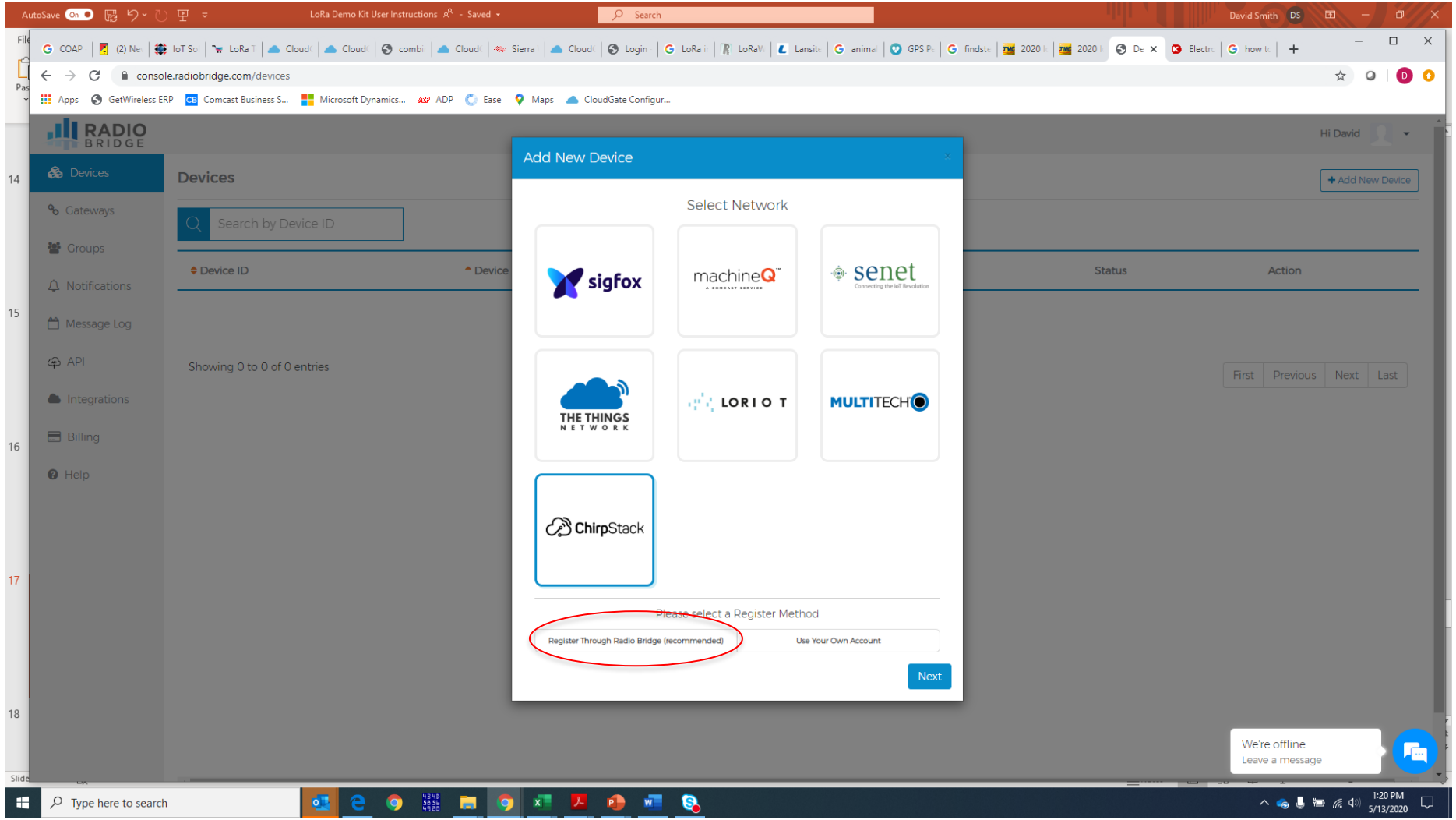
Radio Bridge Devices Page



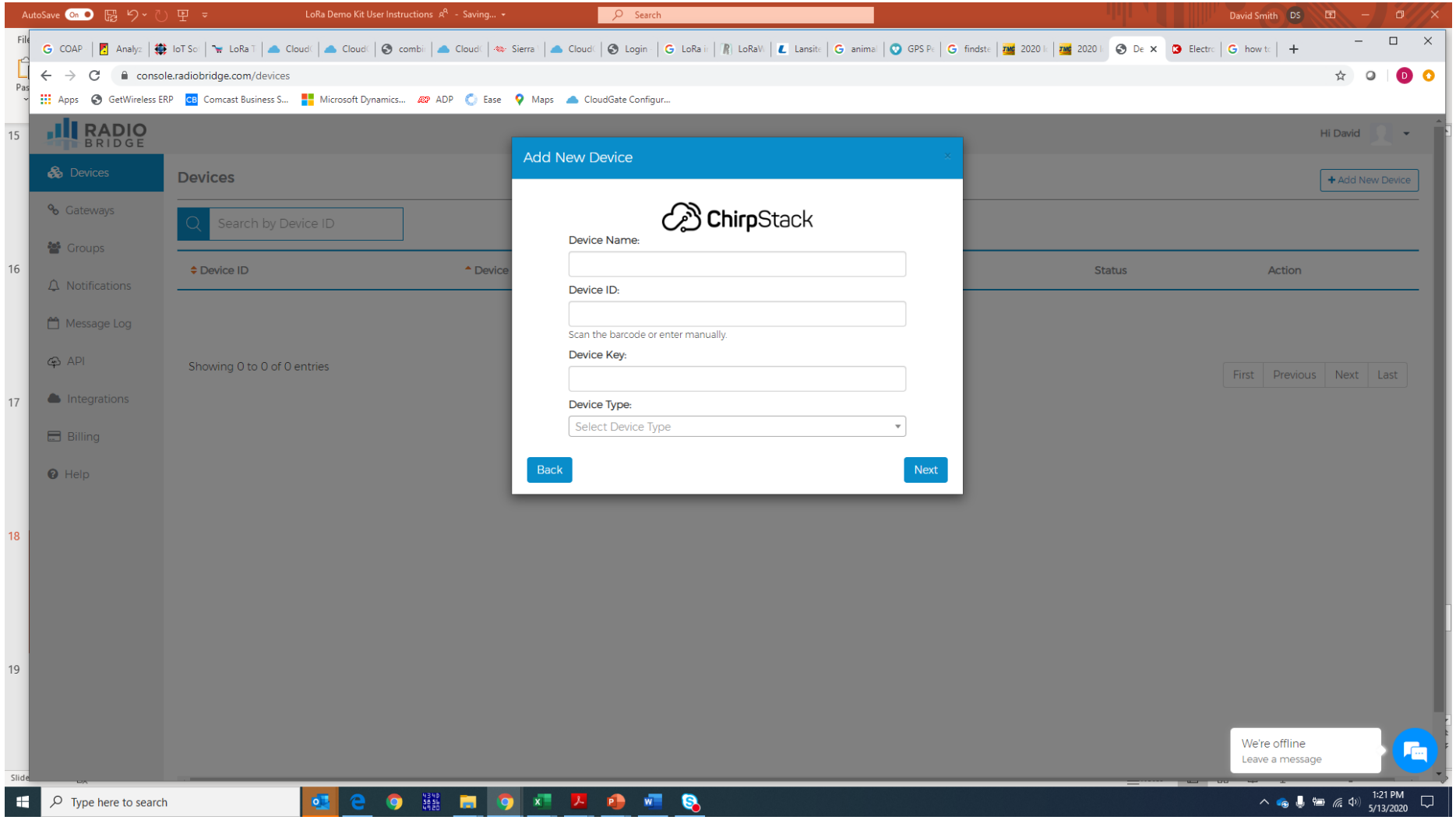
Radio Bridge Add New Device Page



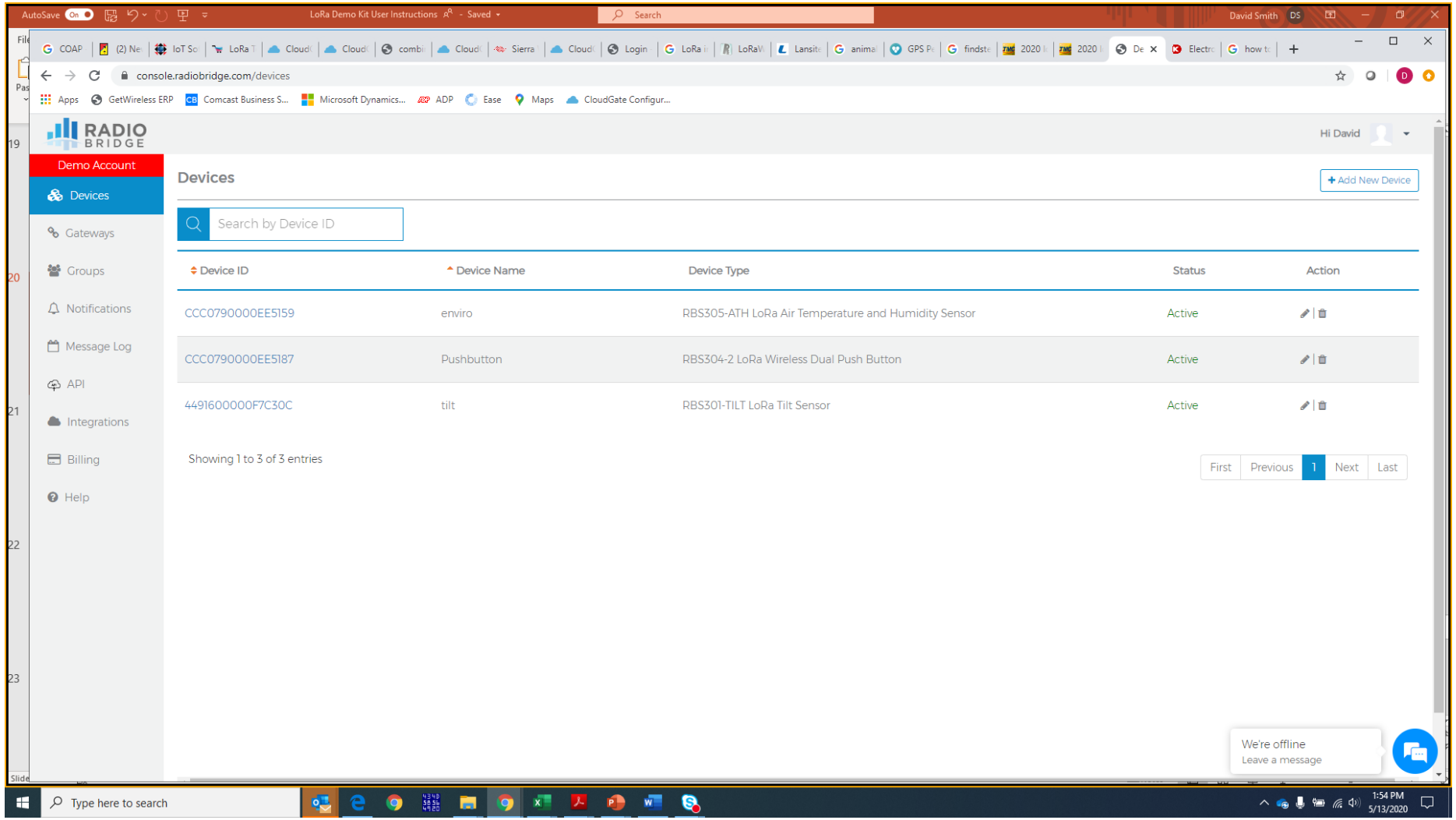
Radio Bridge Add New Device Page



Radio Bridge Add New Device Info Page



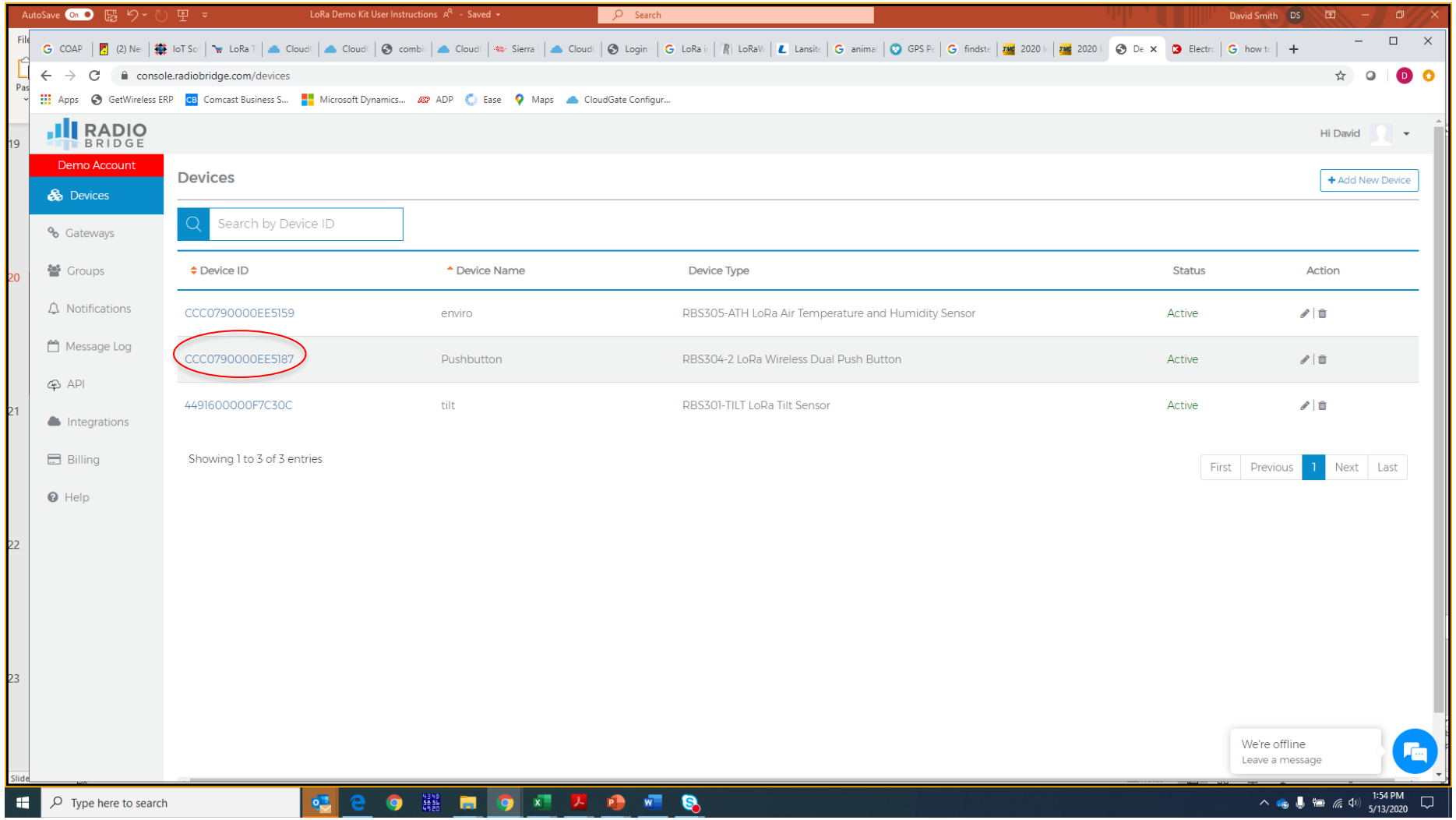
Radio Bridge Devices Page



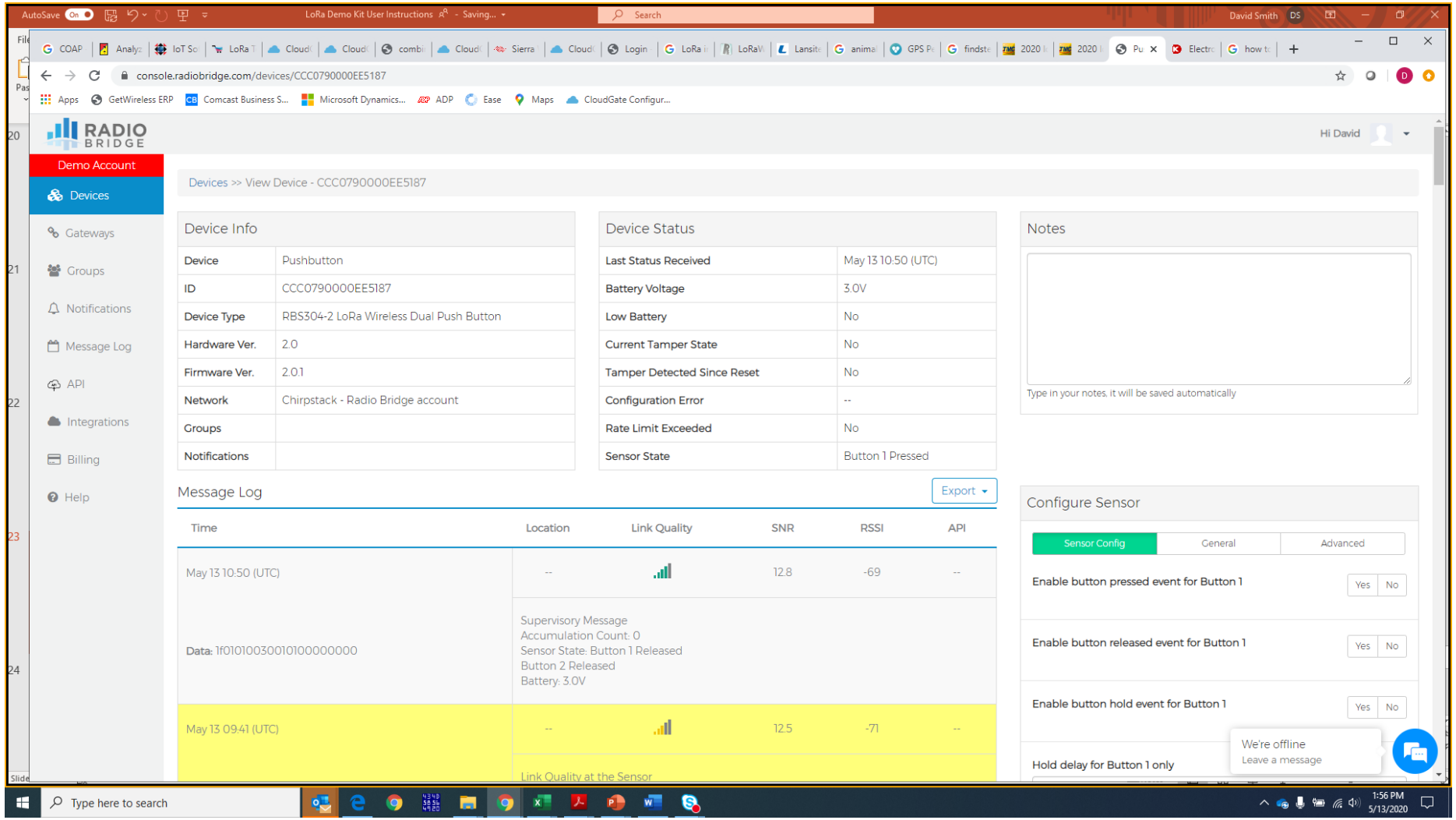
3. Enable Sensors

3. Enable the sensors
    - Pull the battery tabs out of the sensors
    - Verify sensor data appears on the Radio Bridge Console
        - Click on any sensor (Pushbutton used by example)
        - Verify data has been received

Radio Bridge Devices Page



Radio Bridge Devices Page



4. Notes

1. Radio Bridge Console is free up to 100 devices or 10,000 messages per month.

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Questions/Discussion