

# **Bloom IoT Solution**

Tiffany Yu and Minh-Thai Nguyen

# What is hydroponics?

---

Hydroponics is the act of growing plants without soil

## Benefits of hydroponics

- Saves space
- Uses less water
- Can grow pretty much anywhere
- Bigger yields



# What did we want to do?

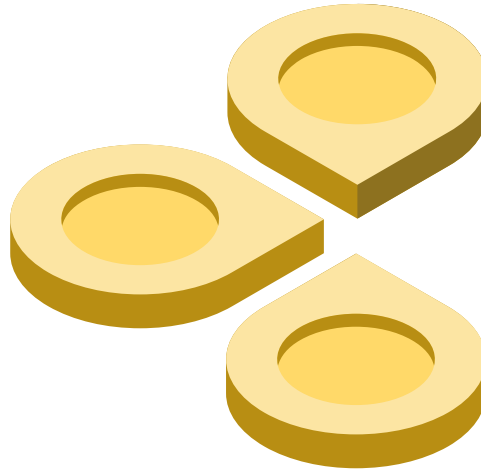
Create a solution in AWS that allows us to monitor our different hydroponics systems



# What did we want to do?

---

Process, format, and analyze  
the incoming data



Allow users to connect  
their IoT devices to our  
solution

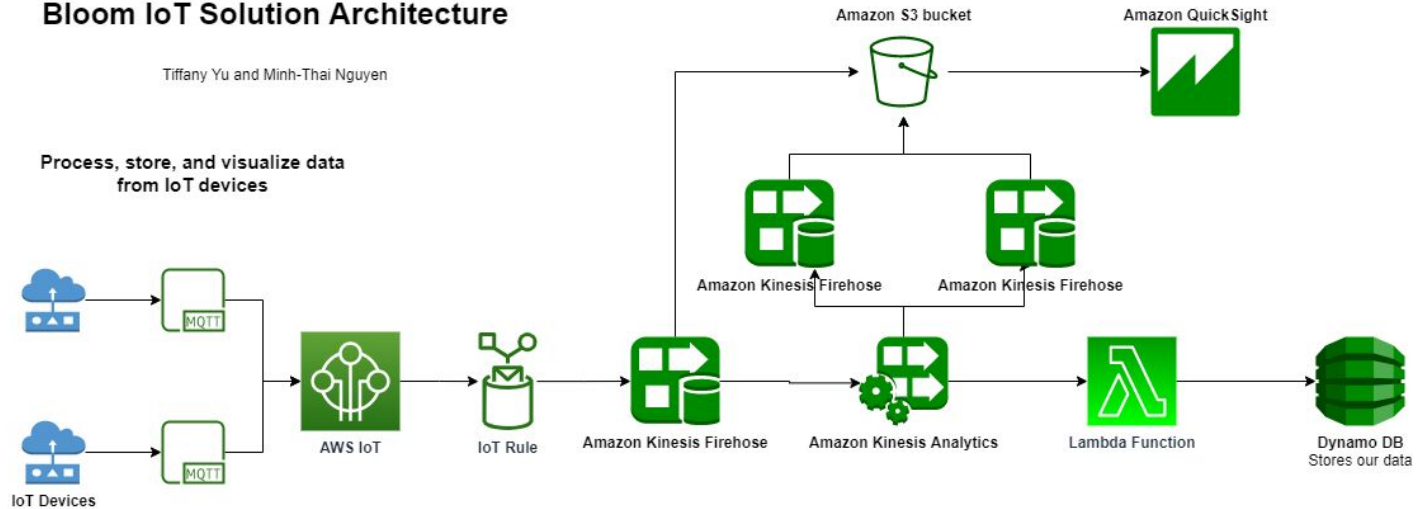
Visualize the processed  
data

# Our solution architecture

## Bloom IoT Solution Architecture

Tiffany Yu and Minh-Thai Nguyen

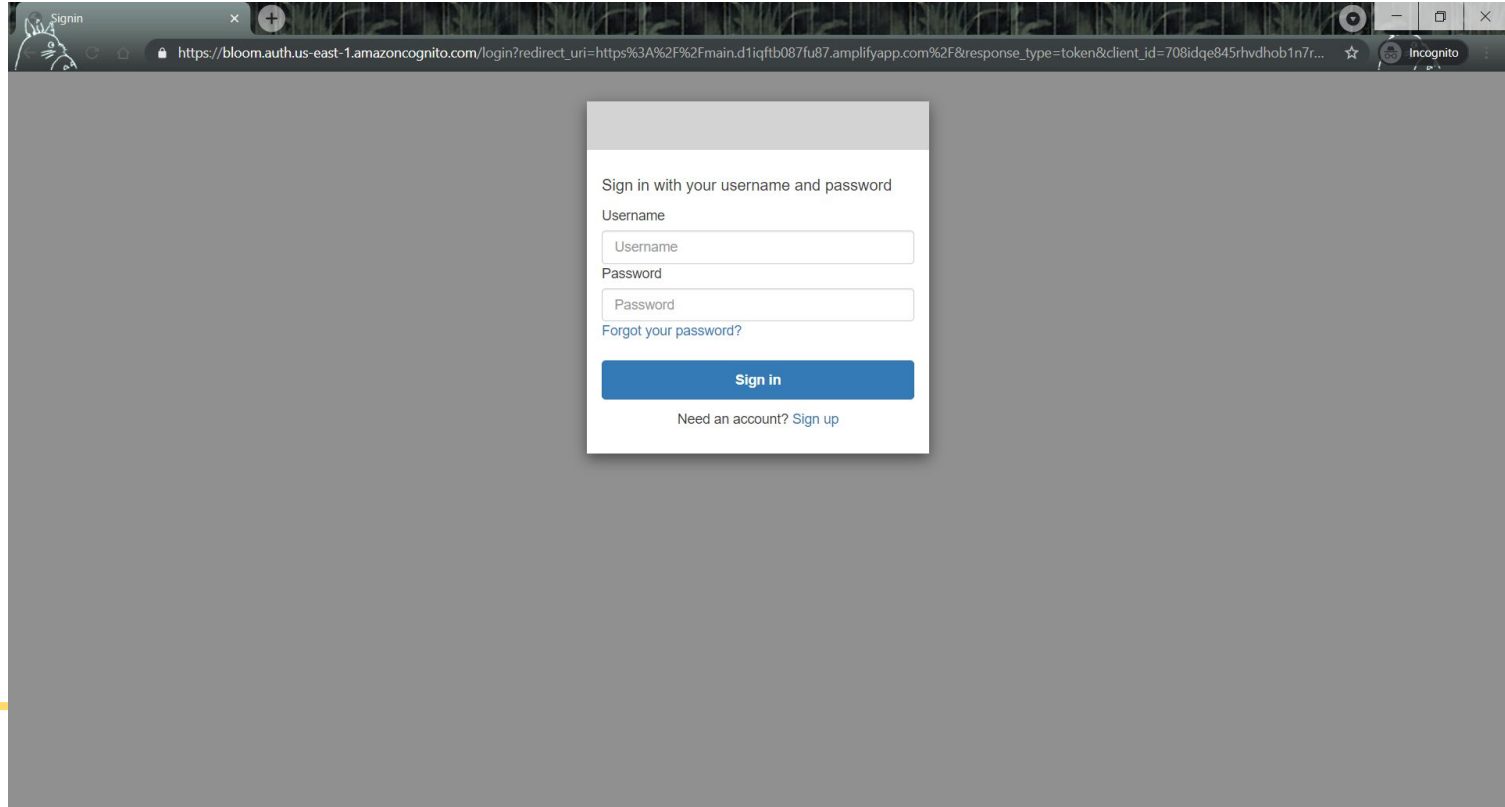
Process, store, and visualize data from IoT devices



Registering Users and IoT Devices



# Registration Website



The screenshot shows a web browser window with a dark theme. The address bar displays a URL from Amazon Cognito. The main content area is a solid gray color. Centered on the page is a white login form with a light gray header. The form contains the following elements:

- Header: Sign in with your username and password
- Username label: Username
- Username input field: A text box with the placeholder text "Username".
- Password label: Password
- Password input field: A text box with the placeholder text "Password".
- Forgot your password? link: A blue, underlined text link.
- Sign in button: A solid blue rectangular button with the text "Sign in" in white.
- Need an account? Sign up link: A blue, underlined text link.

# Using QuickSight

