

# Gym Stock Bot

The one stop solution for makin' gainz with in-stock  
gym equipment!

By Andrew Brigante, Michael Makris

# Background & Inspiration

- Covid created a huge demand for gym equipment
- Gym-goers are stuck refreshing multiple fitness websites
- People are desperate to lift some weights and get some huge biceps



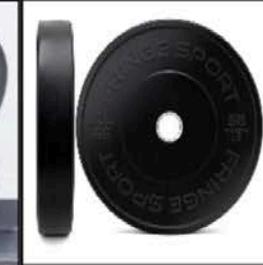
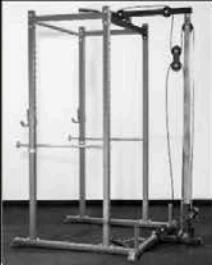
# Our Solution

Gym Stock Bot

Not Secure | ccbdpgymstockbotfrontend.s3-website-us-east-1.amazonaws.com

## Gym Stock Bot

### Search By Category



Accessories      Barbells      Benches      Bikes      Dumbbells      KettleBells      Plates



Racks      Ropes      Rowers      Trainers

### Search By Manufacturer

**REP** **ROGUE** **TITAN**  
FITNESS

# Gym Stock Bot

## Value

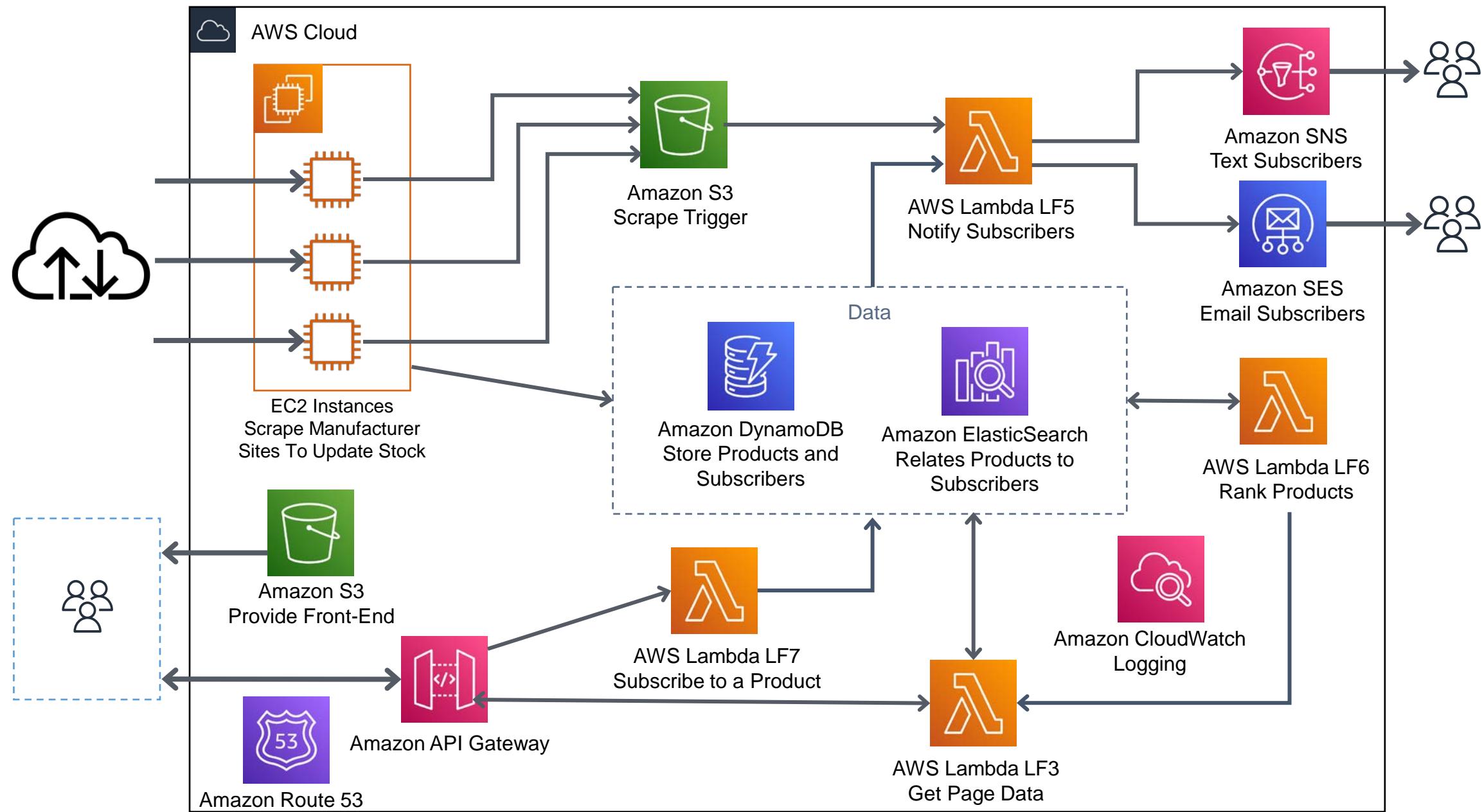
- Provides a one-stop shop for gym equipment
- Focuses on product availability at a time when gym equipment is in high demand
- Notifies user when products become available
- Ranks by product popularity



# Project Definition

- Identified the need
- Looked at the industry and similar services
- Gathered data from manufacturers
- Built the backend services
- Built the frontend UI





# Workflows

## Scrape

1. EC2 instances scrape each manufacturer's website.
2. Identify in-stock items and update DynamoDB data store.
3. Using S3 bucket, trigger Lambda.
4. Lambda identifies subscribers of newly in-stock items and notifies them using email and/or text.

## Present Products

1. User visits website. API Gateway call loads product categories and manufacturers.
2. User selects specific product category or manufacturer.
3. API Gateway call updates site with a list of in-stock products, and a list of all supported products.

## Subscribe

1. User submits personal information.
2. Product lists update with a subscribe button next to each product.
3. User can subscribe or unsubscribe to a specific product.
4. Upon scrape update, user receives notification if product is in stock.

DEMO



# Results

- We make our users HAPPY!
- We make our users STRONG!
- We make our users GAINZ!
- We developed a streamlined and scalable solution to meet a current need
- Our userbase can now search current inventory and get notification updates to be the first to buy new stock



