1 Example: AWS Architecture blog: Building a Controlled Environment Agriculture Platform
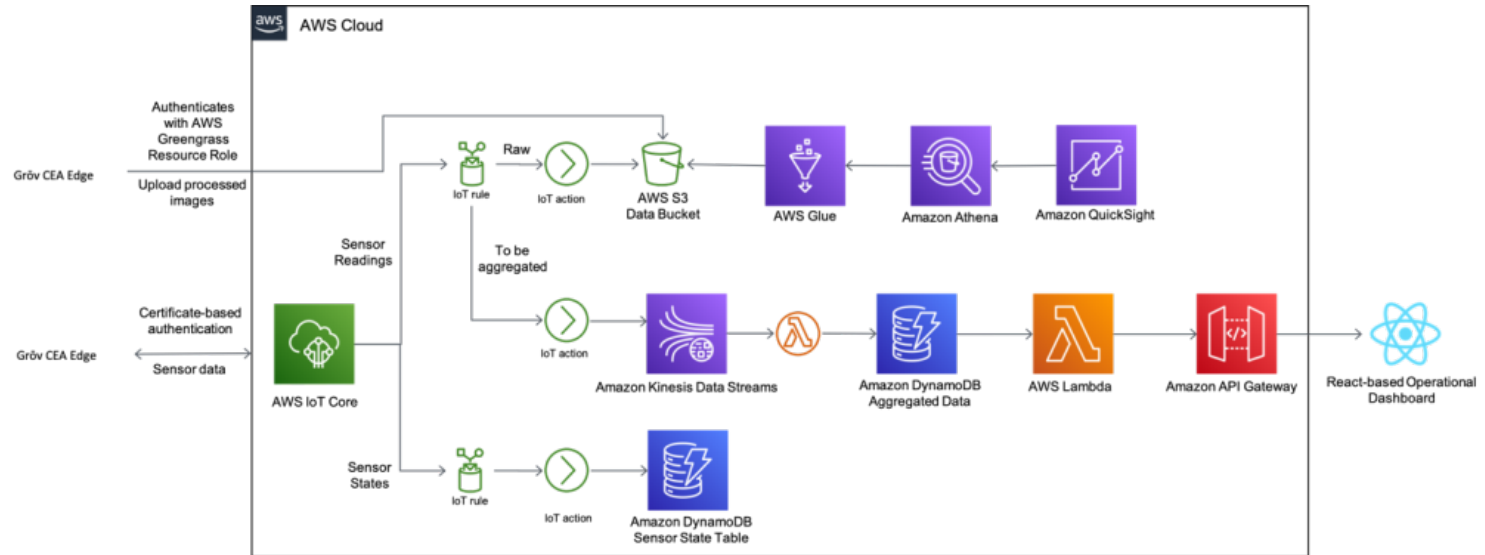
Example taken from AWS Architecture Blog[1], *Building a Controlled Environment Agriculture Platform*[2], by Ashu Joshi, 2020.12.22. Original diagrm[3] recreated, using tikz and the awsicons package.

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[1] https://aws.amazon.com/blogs/architecture
[2] https://aws.amazon.com/blogs/architecture/building-a-controlled-environment-agriculture-platform/
[3] https://d2908q01vomqb2.cloudfront.net/fc074d501302eb2b93e2554793fcaf50b3bf7291/2020/12/21/Data-pipeline-Grov-Technologies-1024x374.png

2 Original diagram (PNG image)

3   Recreated diagram

Gröv CEA Edge — Authenticates with AWS Greengrass Resource Role / Upload processed images

Gröv CEA Edge — Certificate–based authentication / Sensor Data

Sensor Readings

IoT Rule → Raw → IoT Action → AWS S3 Data Bucket ← Amazon Glue ← **Amazon Athena** ← Amazon QuickSite

To be aggregated

IoT Action → Amazon Kinesis Data Streams → Amazon DynamoDB Aggregated Data → Amazon Lambda → Amazon API Gateway → React–based Operational Dashboard

AWS IoT Core

Sensor States

IoT Rule → IoT Action → Amazon DynamoDB Sensor State Table