**Agri-Tech-Farm Water Management**

**Architecture diagram**

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| **Soil sensor and sprinkler simulators**  Step Name: Creation of IOT things   1. Creating things in auto provisioning      1. Creation of Thing groups      1. Creation of Thing type in AWS IoT      1. Creation of AWS IoT policies      1. Tables in DynamoDB      1. Devices data in DynamoDB        1. Creation of roles      1. Creation of data streams in Kinesis      1. Policy attachment to role        1. Pushing data to kinesis data streams |

**Air temperature and humidity information of a representative lat/long based location of the farm**

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| 1. Weather Api Data          1. Roles for weather api data & deployment        1. Event scheduler Rules |

**AWS IoT Core to receive all the data, messaging back to the sprinklers, and passing the data further down to streaming and database entities.**

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**Database in cloud to store raw information and decisions.**

**Quick turnaround decision making (within 5 minutes)**

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| 1. **Data streaming and alerts**        1. **Sprinkler subscription**     **SNS Notification for the alert**     1. **Function flow**     **Ability to display (text or visual) the state of various sensor and sprinkler systems.** |

**Advanced Features**

