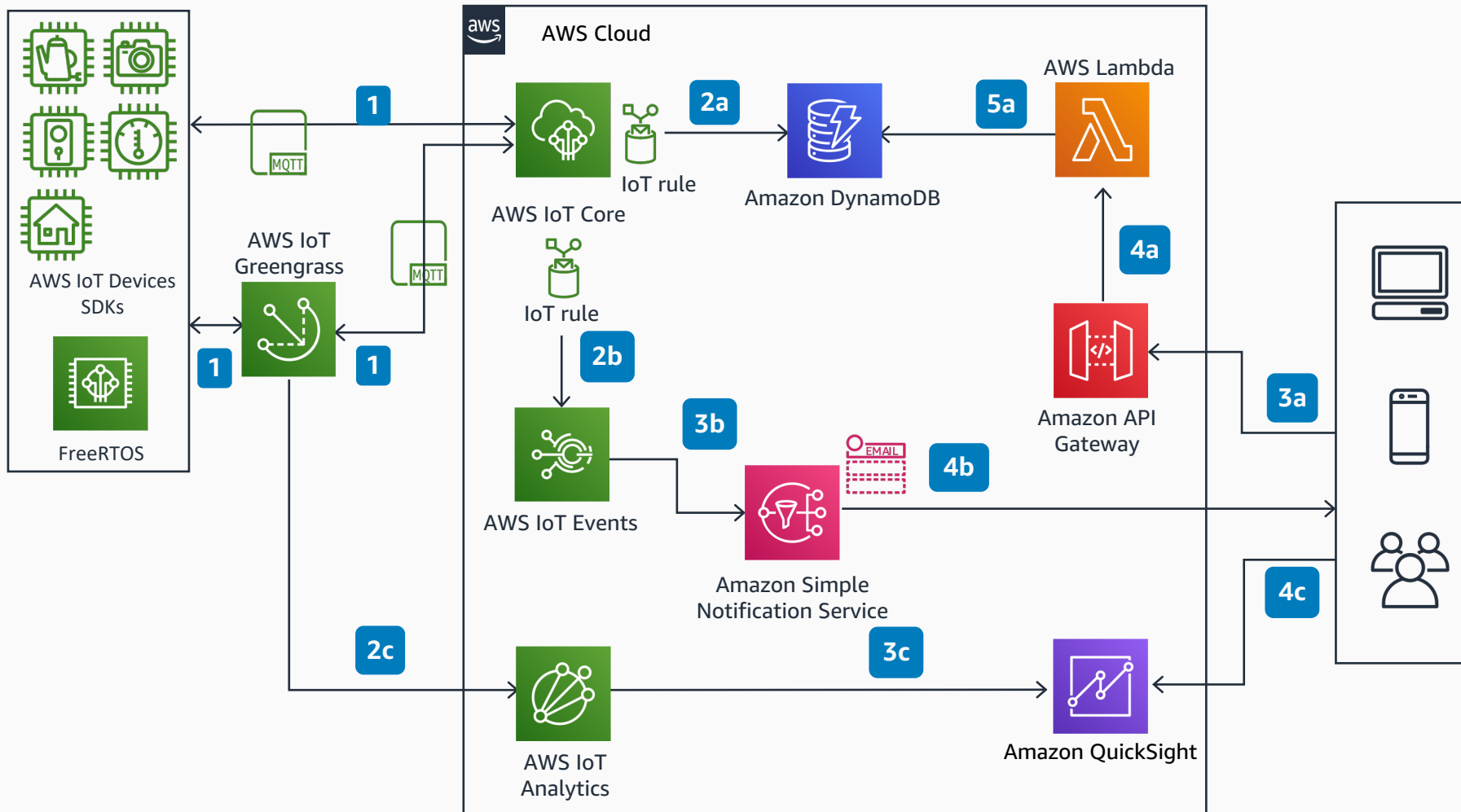


Connected Home - Telemetry

Measuring and collecting data from smart home devices



- 1** The devices connect to **AWS IoT Core**, directly via MQTT from **FreeRTOS** or via **AWS IoT Greengrass**.
- 2a** An IoT topic Rule can be configured in **AWS IoT Core** to pick up meaningful data and save it in **Amazon DynamoDB**.
- 2b** Another IoT topic Rule can be configured in **AWS IoT Core** to trigger **AWS IoT Events** for certain data, like temperature etc.
- 2c** Or, directly from **AWS IoT Greengrass**, data can be ingested in **AWS IoT Analytics**.
- 3a** Client applications can make an API call to retrieve data via **Amazon API Gateway**.
- 3b** **AWS IoT Events** can trigger **Amazon SNS** actions in case certain changes occur in the data (e.g. Temperature > 25 degrees).
- 3c** Data from **AWS IoT Analytics** can be imported into **Amazon QuickSight**, for visualization and further insights.
- 4a** **Amazon API Gateway** invokes an **AWS Lambda** function with logic to retrieve data requested by the client applications from Amazon DynamoDB.
- 4b** **Amazon SNS** triggers an email notification for client applications.
- 4c** Client applications can visualize the data in **Amazon QuickSight**.



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