AWS Industrial
Asset Condition Monitoring Reference Architecture

This reference architecture shows an example of Asset Condition Monitoring using AWS IoT Analytics and AWS IoT Events.

1. Configure AWS IoT Greengrass using Greengrass Connectors to communicate with your Factory Machines.
2. Configure rules within AWS IoT Core to trigger events based on MQTT topics for the Factory Machines.
3. In AWS IoT Analytics, set up a channel, pipeline, and data store to analyze your data from the Factory Machines.
4. Visualize your analysis using Amazon QuickSight on the AWS IoT Analytics data source.
5. Configure AWS IoT Events to monitor device events and to send event triggers.
6. Create an AWS Lambda function to publish Amazon SNS messages based on input events and to send notifications.
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1. Configure AWS IoT Greengrass using Greengrass Connectors to communicate with Factory Machines.
2. Configure rules in AWS IoT Core to trigger AWS IoT Events as an action based on MQTT topics for the Factory Machines near real-time events.
3. In AWS IoT Analytics, set up a channel, pipeline, and data store to analyze your data from the Factory Machines.
4. Configure the IoT Analytics Greengrass Connector on AWS IoT Greengrass to send Factory data to AWS IoT Analytics.
5. Configure AWS IoT Events to monitor device events and send event triggers.
6. In AWS IoT Analytics, create a data set with a content delivery rule to send aggregated data to AWS IoT Events.
7. In AWS IoT Events, configure event actions to send Amazon SNS messages as required.
8. Visualize your factory machine analysis using Amazon QuickSight on the AWS IoT Analytics data source.