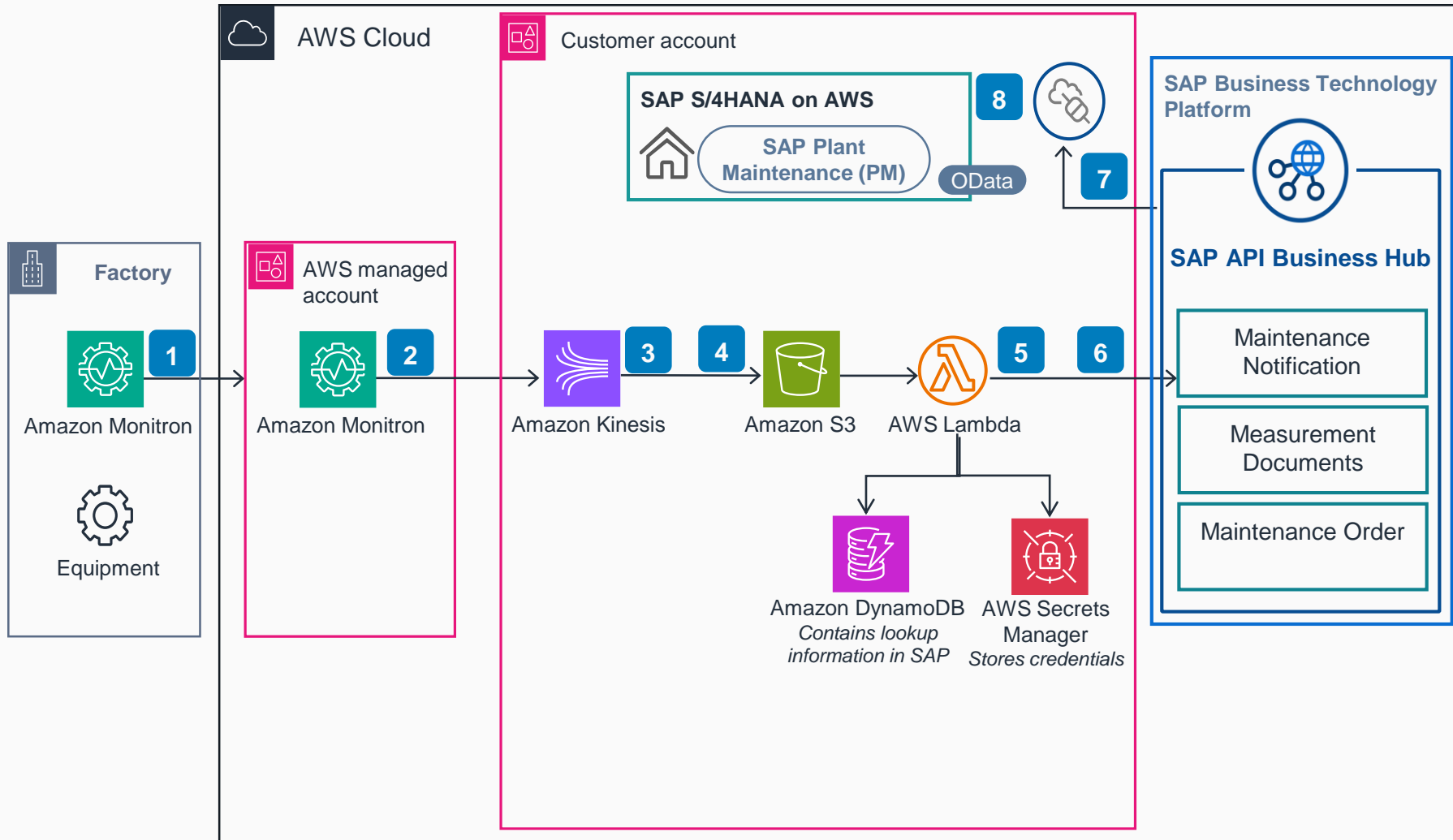


# Guidance for Predictive Maintenance with Amazon Monitron and SAP

This diagram shows how Amazon Monitron integrates with SAP business technology for asset management and plant maintenance.



- 1 **Amazon Monitron** Sensors generate sensor data and **Amazon Monitron** Gateways. These systems are on premises on the shop floor. The Amazon Monitron Starter Kit is a system for equipment monitoring.
- 2 **Amazon Monitron** is available in the AWS managed account and receives data from the **Amazon Monitron** Gateway.
- 3 **Amazon Kinesis** streams the sensor data from the **Amazon Monitron** account to the customer account.
- 4 **Amazon Simple Storage Service** (Amazon S3) is a central repository that acts as a delivery destination for **Kinesis** streams.
- 5 **AWS Lambda** is a serverless function that will orchestrate the process of detecting a stream containing any alerts related to failure or warnings. The inference result is passed back to SAP to create a maintenance notification. **Amazon DynamoDB** contains lookup information in SAP. **AWS Secrets Manager** is used to store credentials. These credentials are used by the **Lambda** function to provide payload to the SAP Business Technology Platform (BTP).
- 6 SAP BTP API Management has an API proxy that creates maintenance notifications.
- 7 The SAP Cloud Connector provides connectivity from AWS to the SAP BTP.
- 8 A service notification is created with readings that provide component level information on health issues with SAP ERP Central Component (SAP ECC) or S/4 HANA.

