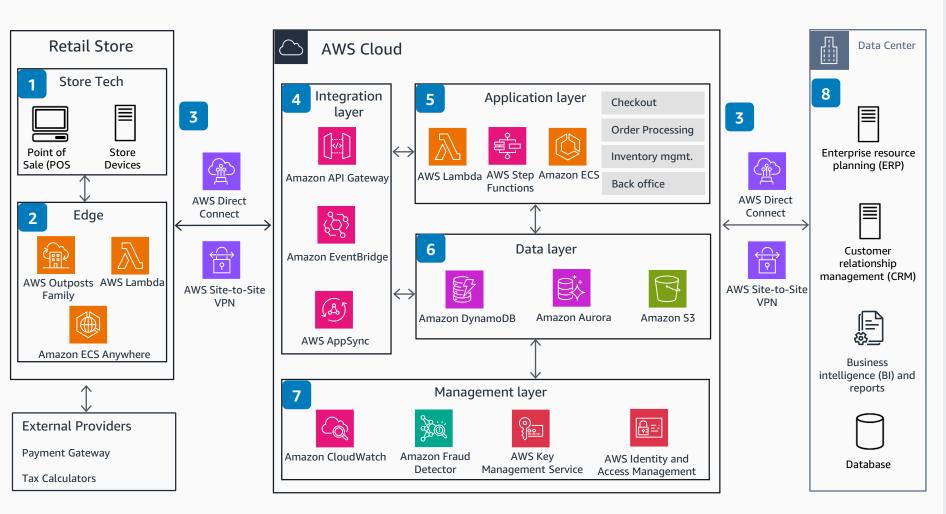
Guidance for Traditional POS Checkout on AWS

This diagram shows how to build a cloud-based point of sale (POS) system for retailers and merchants on AWS.



- In-store card readers and point of sale (POS) terminals capture the transaction. Amazon One, a contactless identity service that scans a customer's palm, acts as an authentication mechanism.
- AWS Outposts Family delivers AWS infrastructure and services to on-premises or edge locations. Lambda@Edge integrates with the payment gateways and other third-parties. Amazon ECS Anywhere runs containers with applications at the edge that require low-latency support.
- AWS Direct Connect and AWS Site-to-Site VPN securely connect retail stores and the corporate data center to the AWS Cloud.
- Amazon API Gateway, Amazon EventBridge, and AWS AppSync act as an integration layer, cascading the store transaction to the backend applications for processing and settlement.
- AWS Lambda, AWS Step Functions, and Amazon Elastic Container Service (Amazon ECS) support the application layer. This includes custom functions for key business processes like checkout, order processing, inventory management, and back office functions.
- Amazon Aurora is used for transactional data, while Amazon DynamoDB handles unstructured data, and Amazon Simple Storage Service (Amazon S3) is used as a data lake.
- 7 Amazon CloudWatch, AWS Identity and Access Management (IAM), Amazon Fraud Detector, and AWS Key Management Service (AWS KMS) monitor, secure, and protect data.
- The corporate data center is connected to the AWS Cloud and integrated with systems and data sources supporting the POS.