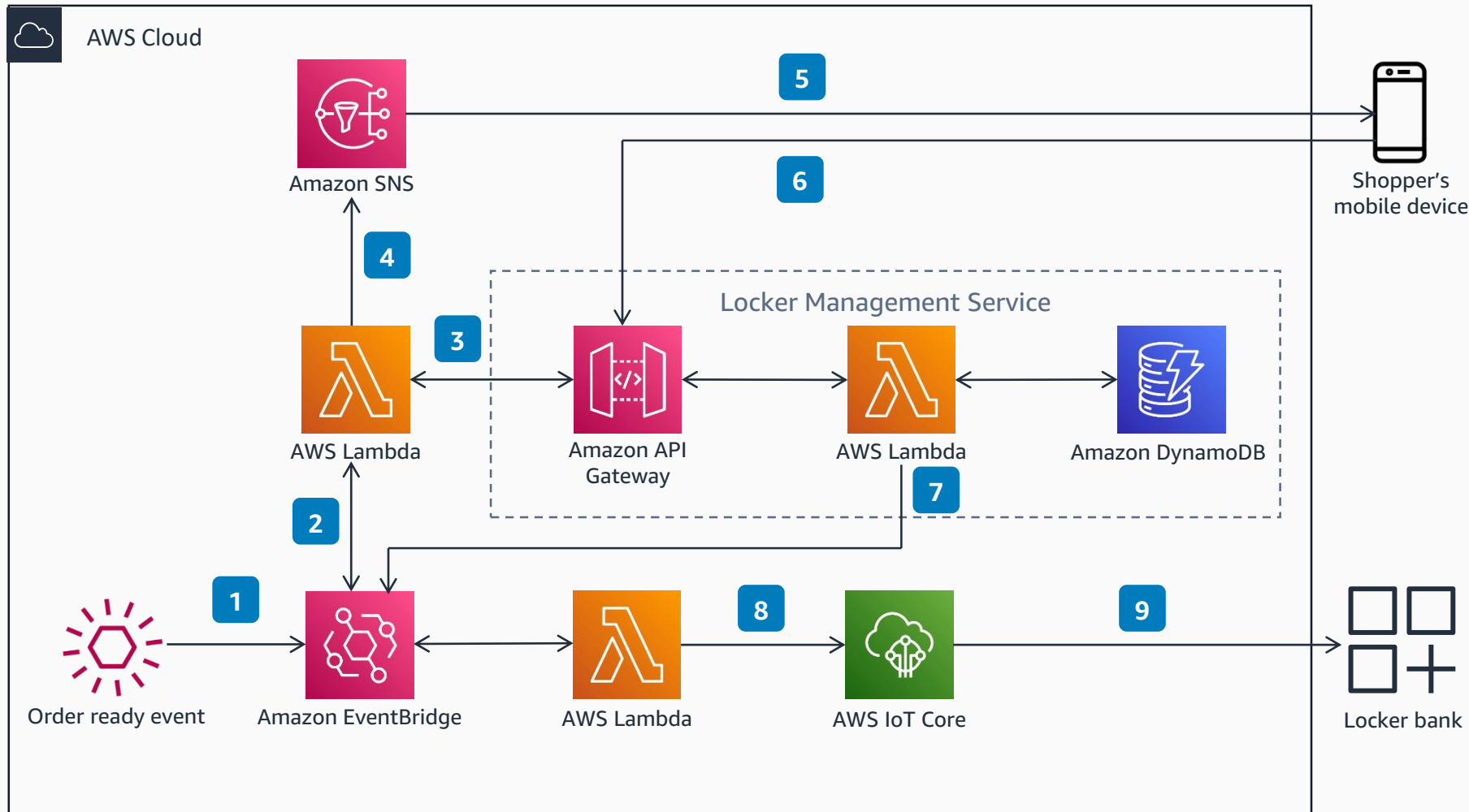


Guidance for Buy Online Pickup in Store/Curbside on AWS

This serverless architecture allows a shopper to pick up their order from a bank of lockers.



- 1 The order ready event containing locker information is published to **Amazon EventBridge**.
- 2 The **AWS Lambda** function subscribes to the order ready event.
- 3 The **Lambda** function calls the **Amazon API Gateway** backed by another **Lambda** function, which retrieves a one-time use passcode from **Amazon DynamoDB**.
- 4 The initial **Lambda** function uses **Amazon Simple Notification Service (Amazon SNS)** to notify the shopper that their order is ready for pickup.
- 5 **Amazon SNS** sends a push notification or SMS message to the shopper's mobile device that includes a link with the one-time use passcode to open the locker(s).
- 6 When the shopper arrives at the locker, they confirm the one-time use passcode.
- 7 **Lambda** sends an order pickup event to **EventBridge**.
- 8 Another **Lambda** function is subscribed to this event. This **Lambda** function looks up the locker(s) for the shopper, then sends the event to **AWS IoT Core**.
- 9 **AWS IoT Core** sends a message to open the shopper's locker(s).



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AWS Reference Architecture