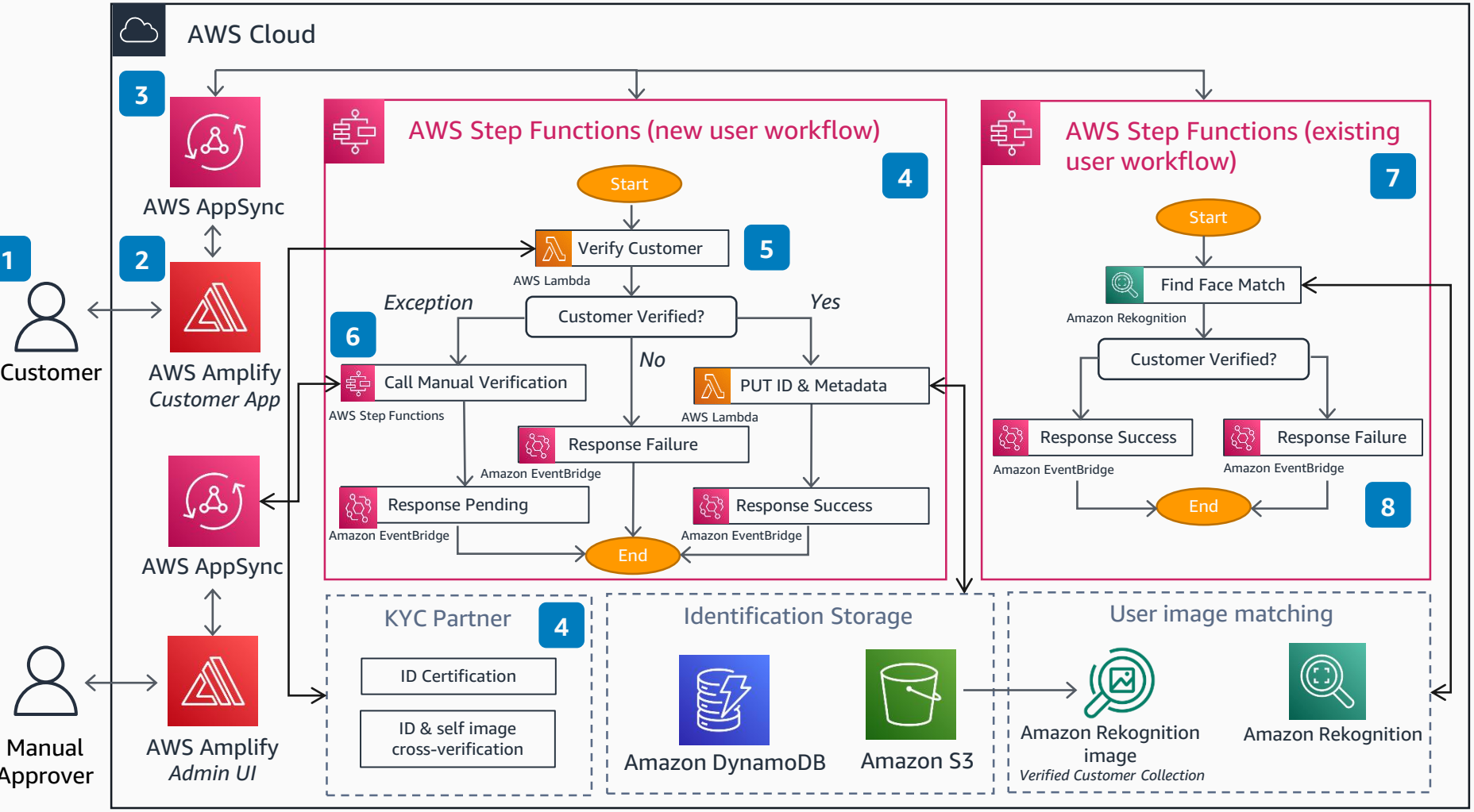


Guidance for Age Verification on AWS

Verify customer age for age-restricted products

This Guidance demonstrates how retail customers can verify customer age using Know Your Customer (KYC) tools and native computer vision technology. Customers can enable the sale of age restricted products through a streamlined identity-based authentication user interface.



- 1 Customers access the front end age verification application through **AWS Amplify** to either register as a new age-verified customer, or to verify their age as an existing user.
- 2 **Amplify** routes the requests to **AWS AppSync** endpoints.
- 3 **AWS AppSync** uses a service integration to run the relevant **AWS Step Functions** express state machine.
- 4 Customers completing age verification for the first time upload a copy of their ID (such as a driver's license or passport) and an image of themselves (collectively referred to as "ID forms") using their device's built-in camera.
- 5 ID forms are routed through **AWS Lambda** to the Know Your Customer (KYC) Partner platform for ID certification and self image cross-verification. Successfully verified customers have their ID forms pushed to **Amazon Simple Storage Service** (Amazon S3). Their metadata is pushed to **Amazon DynamoDB**. Validated self images are indexed in **Amazon Rekognition** for use in future verification processes.
- 6 Exceptions are routed to a queue through **AWS AppSync** and are verified by a manual approver using the **Amplify** admin user interface (UI).
- 7 Existing customers use their device's built-in camera to provide a facial fingerprint. **Amazon Rekognition** cross-checks the self image against a collection of verified users using the **Amazon Rekognition SearchFacesByImage** capability.
- 8 If a match is found, the customer is verified. If no match is found, the customer is routed to the new user workflow.



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AWS Reference Architecture