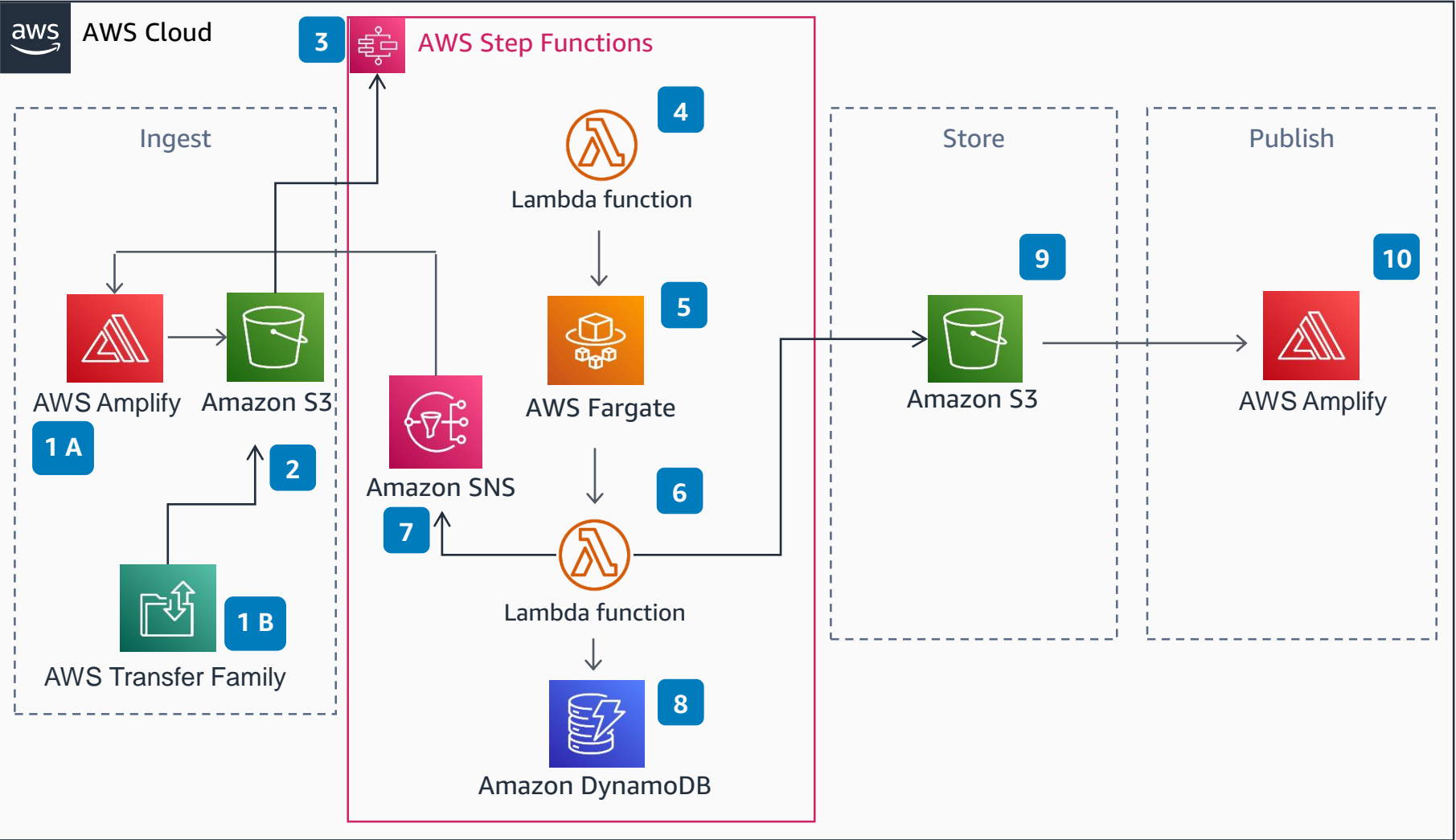


Guidance for Immersive Retail on AWS

This reference architecture shows how you can use spatial computing to make 3D product images.



- 1 A** Upload images through a mobile app hosted in **AWS Amplify**.
- 1 B** Alternatively, a third party uploads images directly through **AWS Transfer Family**.
- 2** **Amazon Simple Storage Service (Amazon S3)** is used to store the uploaded images.
- 3** **AWS Step Functions** filters images to the next step, and passes data between services.
- 4** **AWS Lambda** ensures all images are uploaded for each product before processing.
- 5** An **AWS Fargate** task stitches images together.
- 6** A **Lambda** function validates images to meet quality standards.
- 7** To notify of process failure, **Amazon Simple Notification Service (Amazon SNS)** sends a short message service (SMS) and email.
- 8** An **Amazon DynamoDB** table maintains image metadata.
- 9** Once the images are rendered, they are stored in **Amazon S3**.
- 10** Images are presented through **Amplify**.

