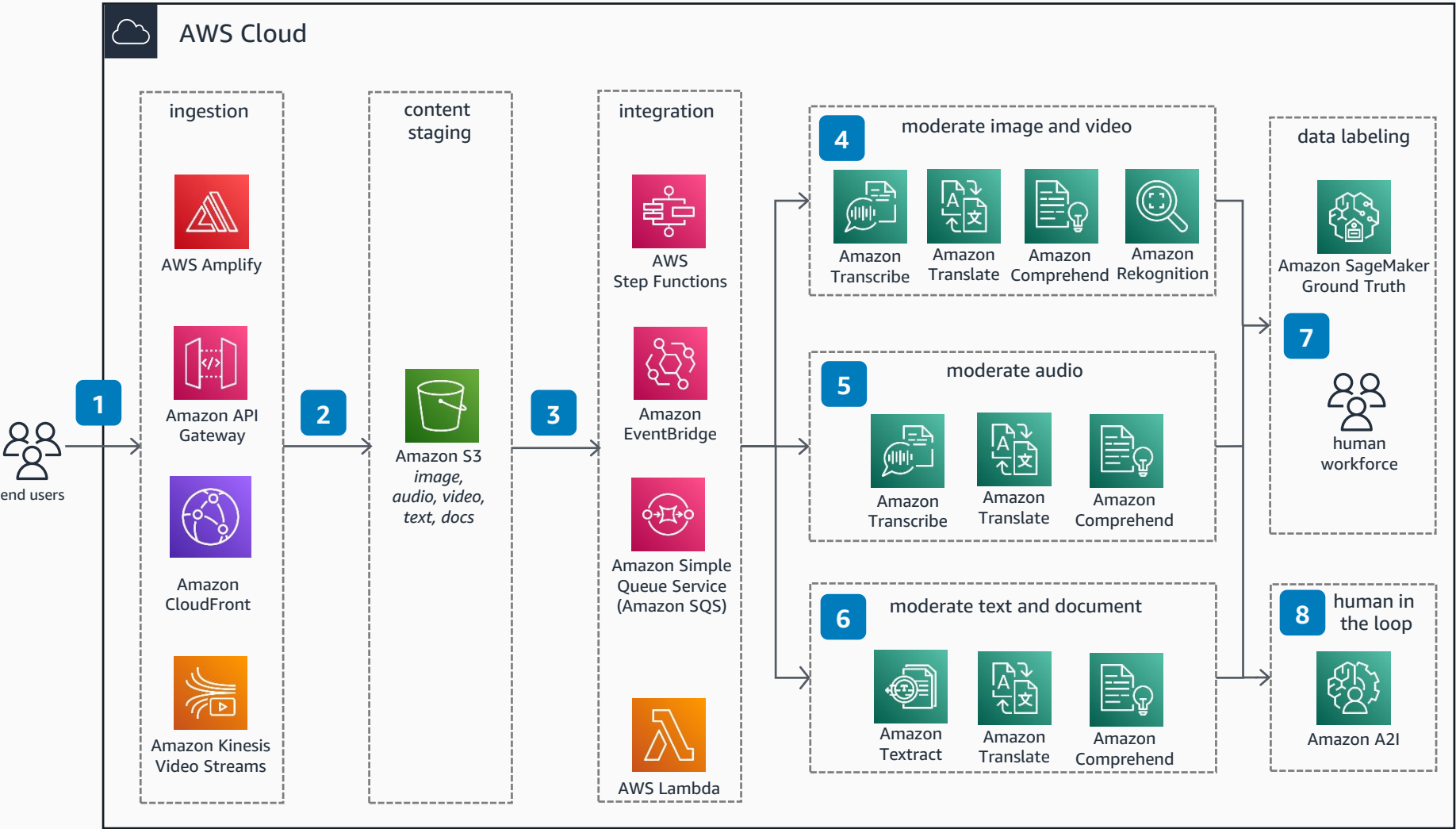# Content Moderation and Compliance using AWS AI Services

Customizable workflows for reliable, scalable, and cost-effective AI-based content moderation

Use this serverless architecture to efficiently moderate the increasing influx of user-contributed content and sensitive information across a broad range of industries including gaming, social media, e-commerce, and regulated environments (such as health care and financial services).

AWS Cloud

end users

1

ingestion
- AWS Amplify
- Amazon API Gateway
- Amazon CloudFront
- Amazon Kinesis Video Streams

2

content staging
- Amazon S3 *image, audio, video, text, docs*

3

integration
- AWS Step Functions
- Amazon EventBridge
- Amazon Simple Queue Service (Amazon SQS)
- AWS Lambda

4 **moderate image and video**
- Amazon Transcribe
- Amazon Translate
- Amazon Comprehend
- Amazon Rekognition

5 **moderate audio**
- Amazon Transcribe
- Amazon Translate
- Amazon Comprehend

6 **moderate text and document**
- Amazon Textract
- Amazon Translate
- Amazon Comprehend

data labeling
- Amazon SageMaker Ground Truth

7 human workforce

8 **human in the loop**
- Amazon A2I

1 Customers upload their content into the **AWS Cloud**.

2 Content securely persists into an **Amazon Simple Storage Service** (Amazon S3) bucket or another data store.

3 Activate workflows, publisher/subscription patterns, and custom code to moderate the content.

4 Process the audio streams within video streams using **Amazon Transcribe** and **Amazon Rekognition**, and extract content moderation categories using simple APIs.

5 Use **Amazon Transcribe** to convert audio into text and leverage natural language processing (NLP) with **Amazon Comprehend**.

6 Using **Amazon Textract**, extract content and using **Amazon Comprehend** NLP, moderate content.

7 Integrate human workforces to customize model vocabularies and image labels using **Amazon SageMaker Ground Truth.**

8 Bring humans into the loop for scenarios that aren't fully automatable using **Amazon Augmented AI** (Amazon A2I).

AWS Reference Architecture