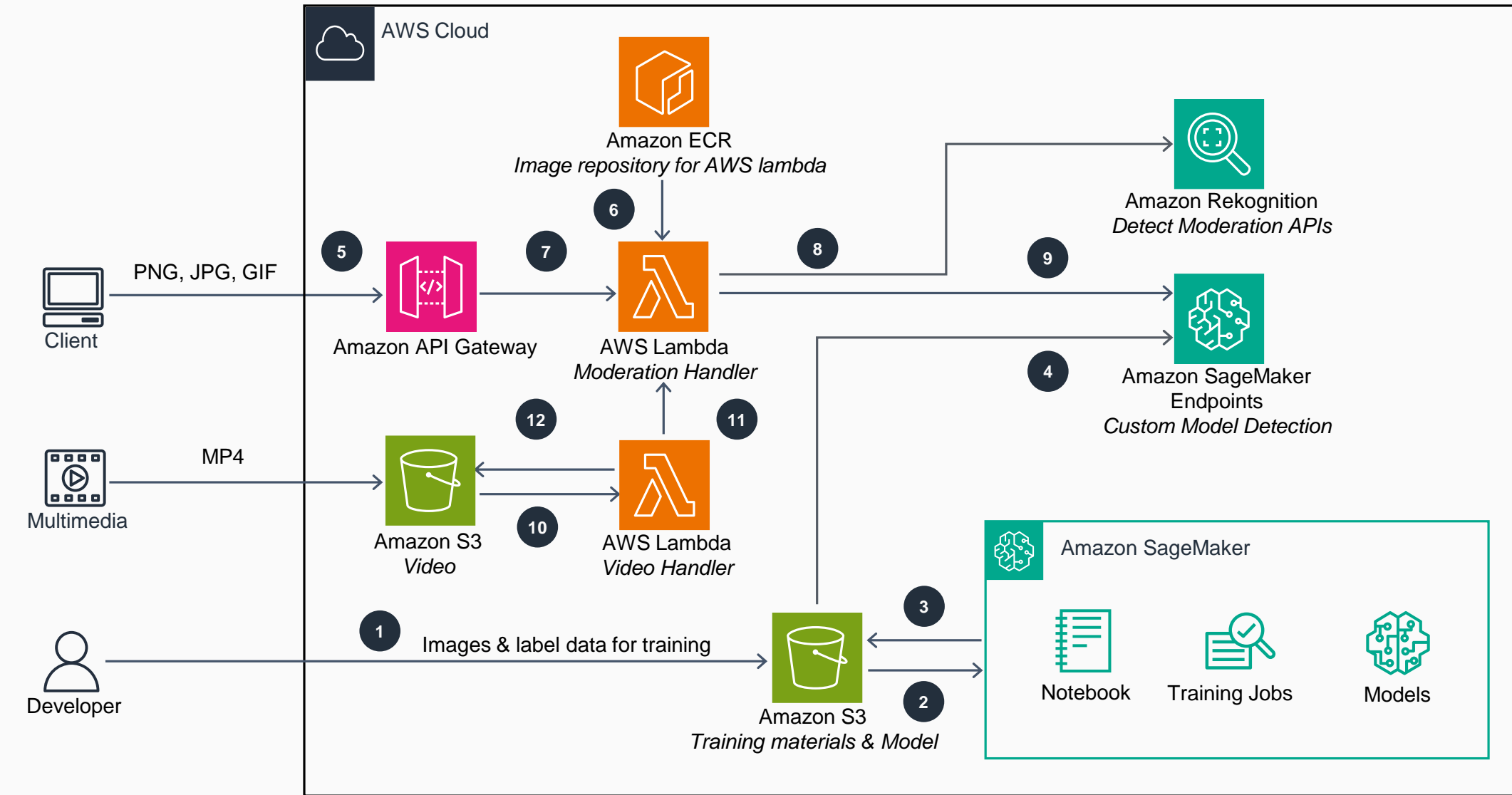


Guidance for Responsible Content Moderation with AI Services on AWS

This architecture diagram shows how game developers can moderate user-generated content (UGC) such as images and texts with AWS managed services and custom machine learning (ML) models. Through well-designed APIs for quick integration with existing upstreaming applications, developers can monitor illegal or unhealthy content and reduce the risks inherent with social networking operations.



- 1 The developer prepares the images and label data in **Amazon Simple Storage Service (Amazon S3)**.
- 2 **Amazon SageMaker** notebooks and training jobs use training materials to train the custom model.
- 3 On completion, training jobs output the custom model in the **Amazon S3** bucket.
- 4 The developer deploys the model to a **SageMaker** endpoint for a custom moderation handler.
- 5 **Amazon API Gateway** receives images for image moderation requests.
- 6 **Amazon Elastic Container Registry (Amazon ECR)** hosts a container image repository for **AWS Lambda**.
- 7 The moderation handler in **Lambda** processes the request based on the parameters in the URL and merges the results from the handlers.
- 8 The moderation handler distributes the request to **Amazon Rekognition** based on the image moderation labels.
- 9 The moderation handler distributes the request to the **SageMaker** endpoint based on the image moderation labels.
- 10 (Optional) A video file is uploaded to **Amazon S3** to invoke the video handler in **Lambda**.
- 11 (Optional) **Amazon S3** stores the key frame images from videos and starts the invocation of the moderation handler to process the detection of the images.
- 12 (Optional) The video handler processes the moderation result and returns it to the original **Amazon S3** bucket.