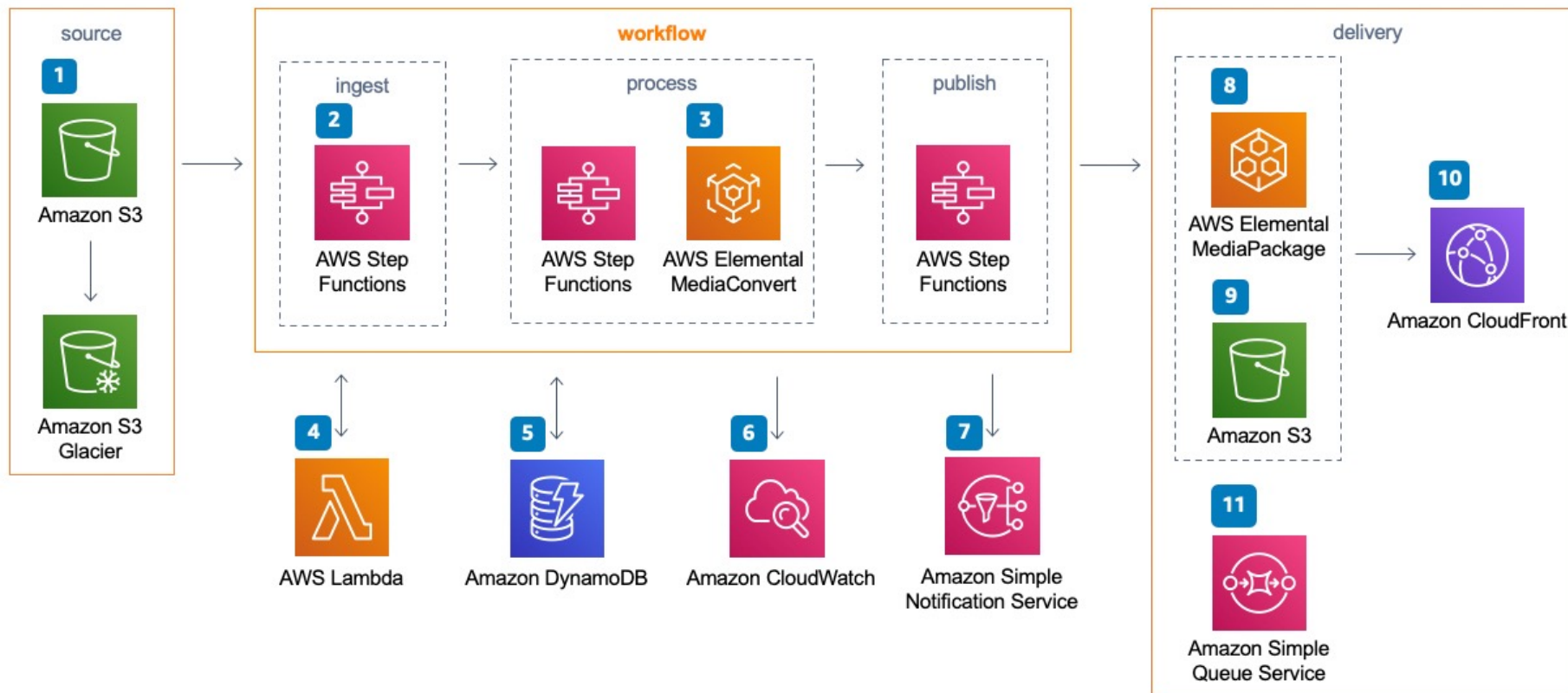# Video on Demand on AWS

This solution provision the AWS services necessary to build a scalable, distributed architecture that ingests, stores, processes, and delivers video content. It extends the Video on Demand on AWS Foundation solution with additional features and several options that can be customized. To deploy this solution using the available AWS CloudFormation template, select **Deploy with AWS**.

1. An **Amazon Simple Storage Service (Amazon S3)** bucket for source media files.

2. **AWS Step Functions**, which creates ingest, processing, and publishing step functions.

3. **AWS Elemental MediaConvert** to transcode media files from their source format.

4. **AWS Lambda** functions to perform the work of each step and process error messages.

5. An **Amazon DynamoDB** table stores data captured through the workflow.

6. **Amazon CloudWatch** for logging and **Amazon CloudWatch** Events rules for **AWS Elemental MediaConvert** notifications.

7. **Amazon Simple Notification Service (Amazon SNS)** topics to send encoding, publishing, and error notifications.

8. **AWS Elemental MediaPackage** (optional) to create video streams formatted to play on several devices from a single video input.

9. An **Amazon S3** bucket for storing destination media files.

10. An **Amazon CloudFront** distribution to deliver your video content to end users.

11. An **Amazon Simple Queue Service (Amazon SQS)** queue to capture the workflow outputs.

Deployable AWS Reference Implementation

Deploy with AWS