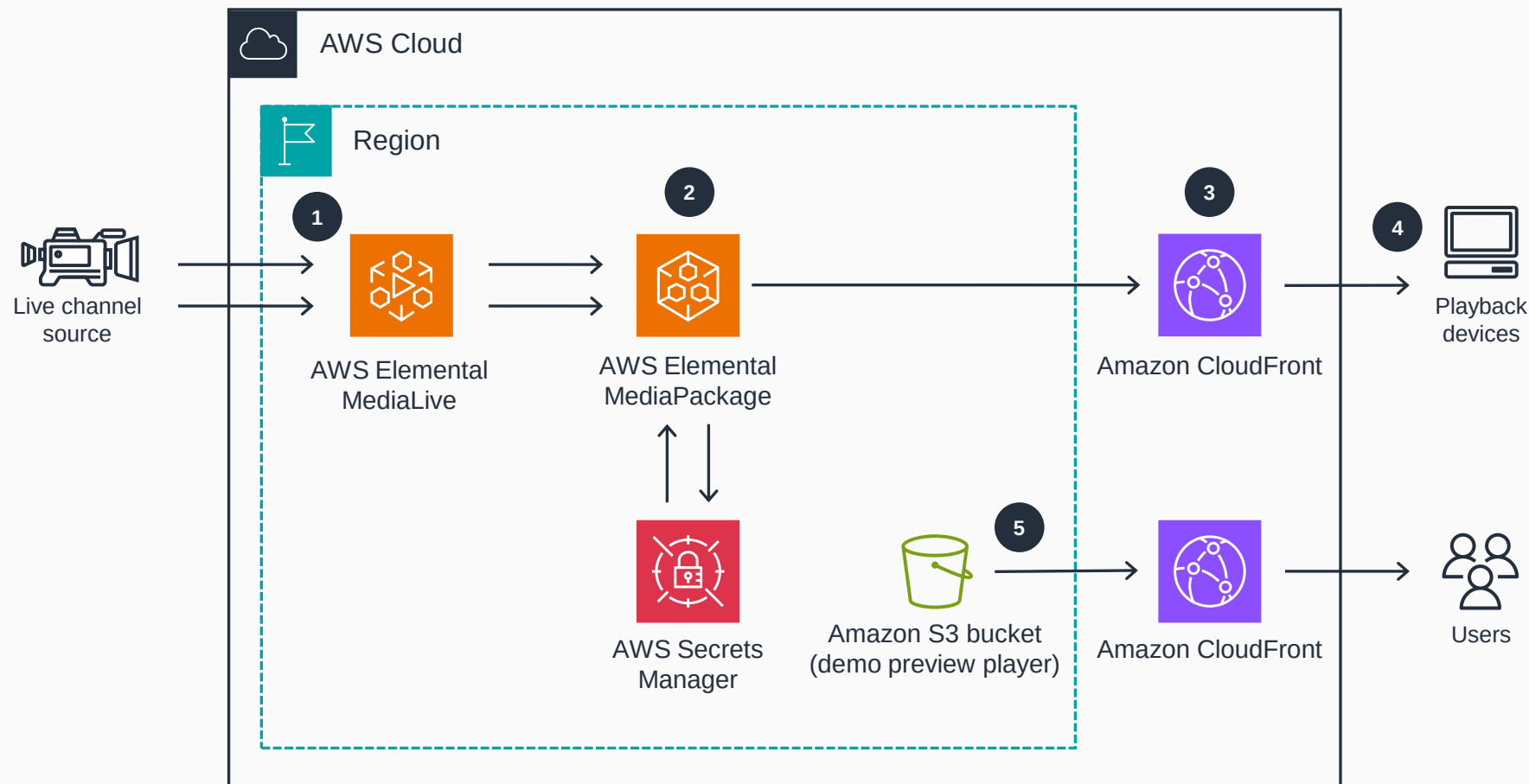


Guidance for Live Streaming on AWS

This architecture diagram illustrates how to effectively support Live Streaming on AWS.



- 1 **AWS Elemental MediaLive** ingests the input feed and transcodes your content into two adaptive bitrate (ABR) HTTP Live Streaming (HLS) streams as output. Two feeds are ingested and processed in parallel by MediaLive redundancy.
- 2 **AWS Elemental MediaPackage** ingests MediaLive ABR output and packages the live stream into HTTP Live Streaming (HLS), Dynamic Adaptive Streaming over HTTP (DASH) and Common Media Application Format (CMAF) formats that are delivered to three MediaPackage custom endpoints.
- 3 An **Amazon CloudFront** distribution is configured to use the MediaPackage custom endpoints as its origin and includes a CDN Identifier custom HTTP header to authenticate requests. MediaPackage only fulfills playback requests that are authorized between MediaPackage and CloudFront using the CDN Identifier. This CDN Identifier is created as part of the CloudFormation deployment and securely stored in **AWS Secrets Manager**. For details, refer to the CDN Authorization in AWS Elemental MediaPackage guide.
- 4 The CloudFront distribution delivers your live stream to viewers with low latency and high transfer speeds.
- 5 A demo HTML preview player is available to help you test the solution. The player is a static website hosted in an **Amazon Simple Storage Service (Amazon S3)** bucket. Amazon CloudFront is used to restrict access to the solution's website bucket.

