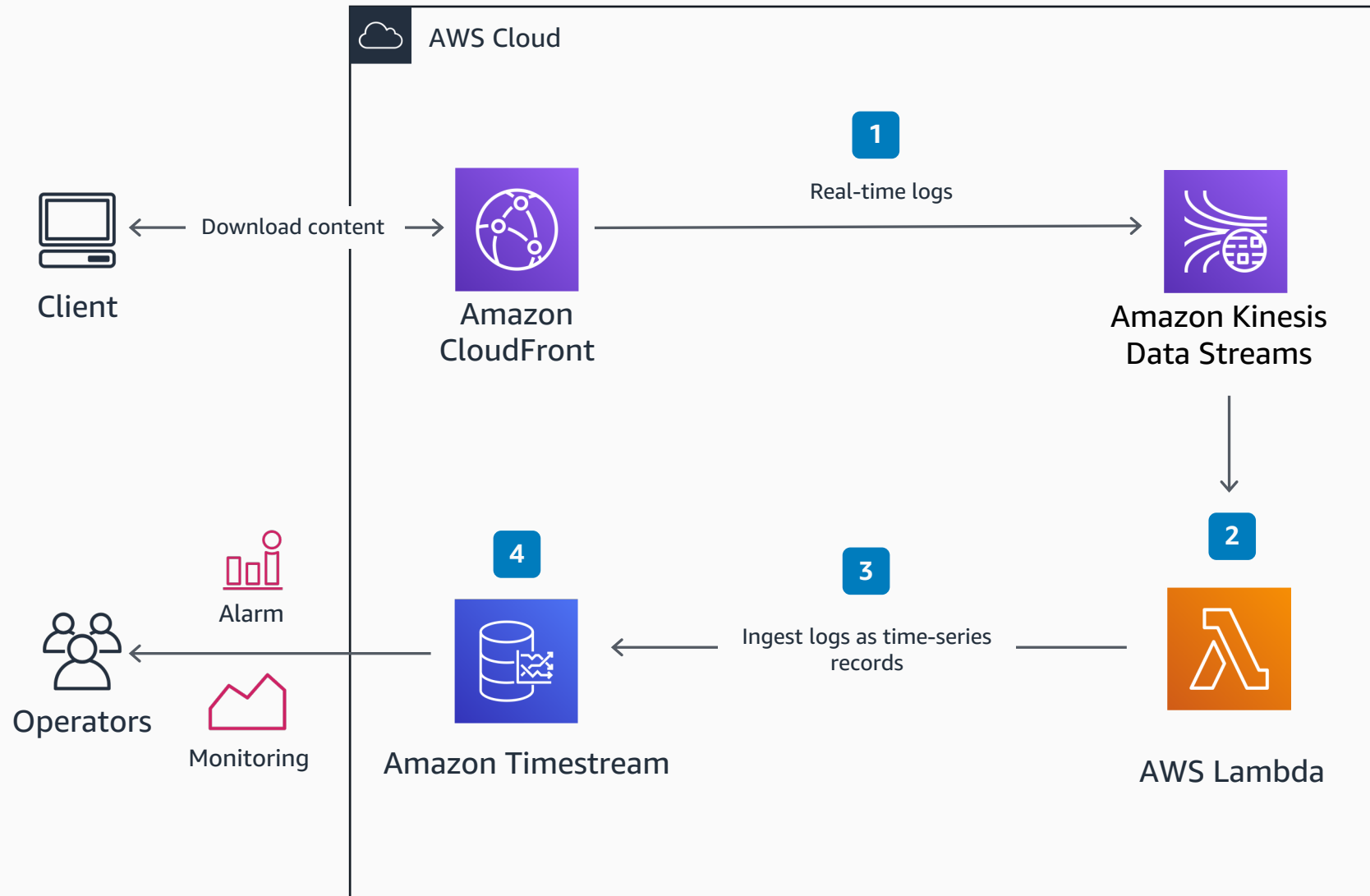


CloudFront Real-time Monitoring Architecture

Serverless method for processing Amazon CloudFront real-time logs and converting them into time-series metrics



This reference architecture provides a method for analyzing **CloudFront** real-time logs and generating custom metrics for live monitoring.

- 1** **Amazon CloudFront** real-time logs are published to **Amazon Kinesis Data Streams** within seconds of a request. Sampling is recommended to reduce costs.
- 2** **AWS Lambda** continuously processes batches of log records in real-time, converts them to JSON format, and generates time-series measures and dimensions.
- 3** The **Lambda** function sends time-series records to **Amazon Timestream** using the AWS SDK. The **Lambda** function can be customized to generate additional metrics or enrich data records.
- 4** Operators analyze metrics such as download performance and response types to detect issues in real-time. This can be done by directly querying the database, or by integrating **Timestream** with monitoring and dashboarding tools such as [Grafana](#) and **Amazon QuickSight**.

