AWS Content Delivery Network Edge Week

Day 3 | September 29, 2021

Observability and Diagnostics with Amazon CloudFront

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aws

Agenda

CloudFront Overview
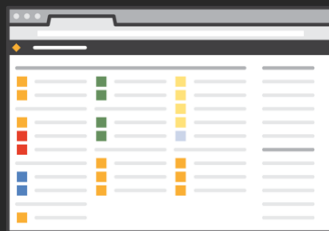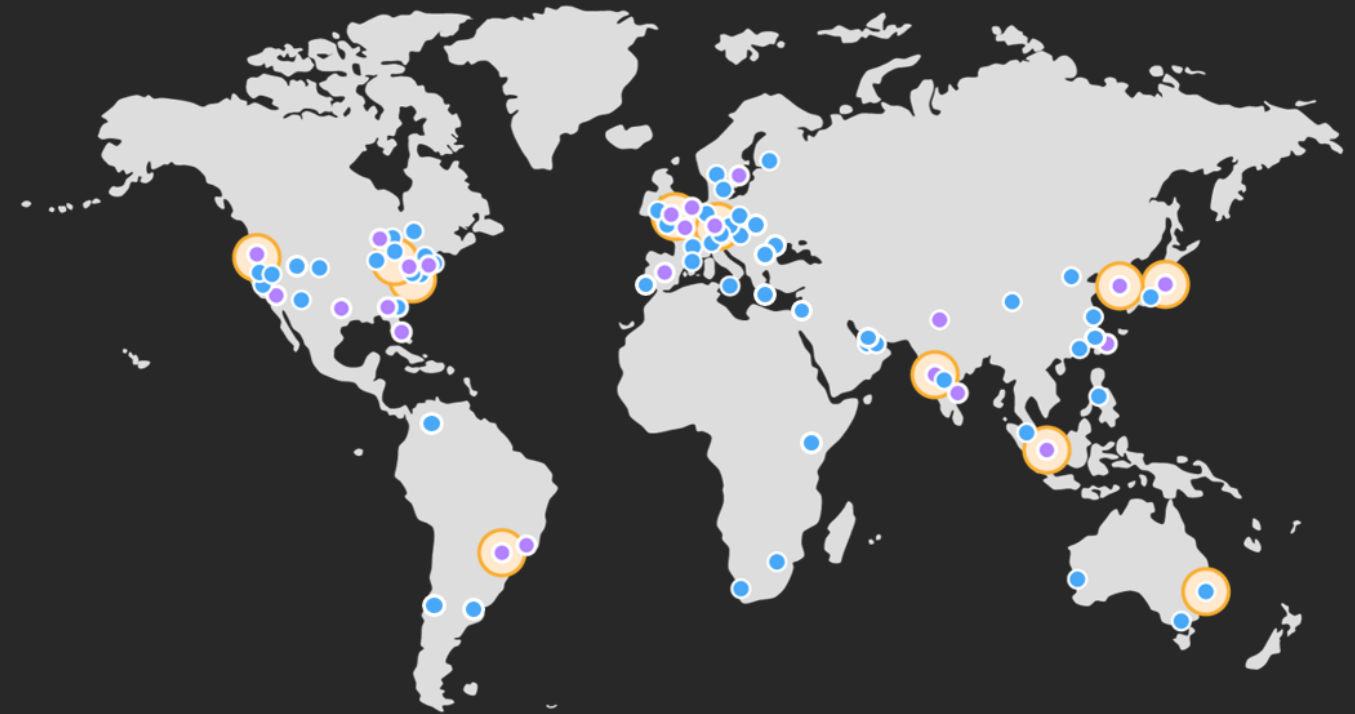
Metrics

Console Reports

Logs and Usage Report

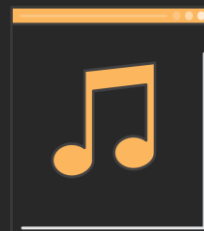Real-time logs dashboard setup

CloudFront Overview

Amazon CloudFront securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, and works seamlessly with AWS services such as Amazon S3, Amazon EC2, and Elastic Load Balancing.
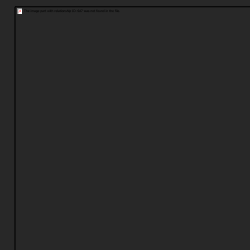
- 245+ edge locations
- 90 Cities
- 47 Countries
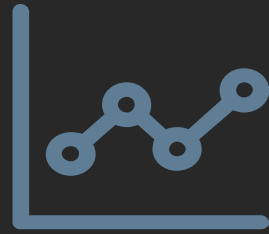
Whole site delivery

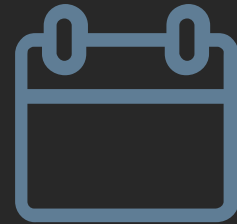**Media streaming for Video & Audio**

API acceleration

Large file downloads

Why monitor data?

Monitor traffic and configure alarms
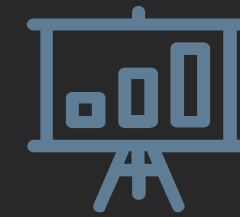
- Metrics available in CloudWatch

Understand usage patterns

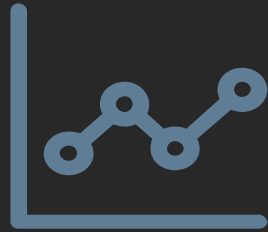- Reports available in CloudFront console

Real-time dasboards

- Real-time logs in Kinesis Data Stream
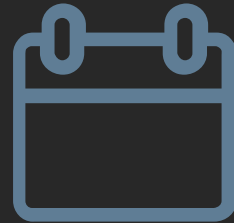

Analyze usage from billing data

- Usage available in AWS Billing console

Observability on CloudFront

CloudWatch metrics

- Metrics available in CloudWatch Requests, Error rates, Bytes Downloaded/Up loaded, Cache Hit Rate, Origin Latency
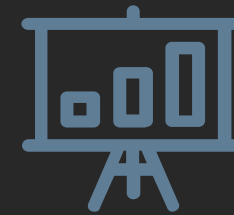
CloudFront Console reports

- Reports available in CloudFront console
- Cache Statistics, Popular Objects, Top Referrers, Usage, Viewer

Logs

- Logs in S3 bucket
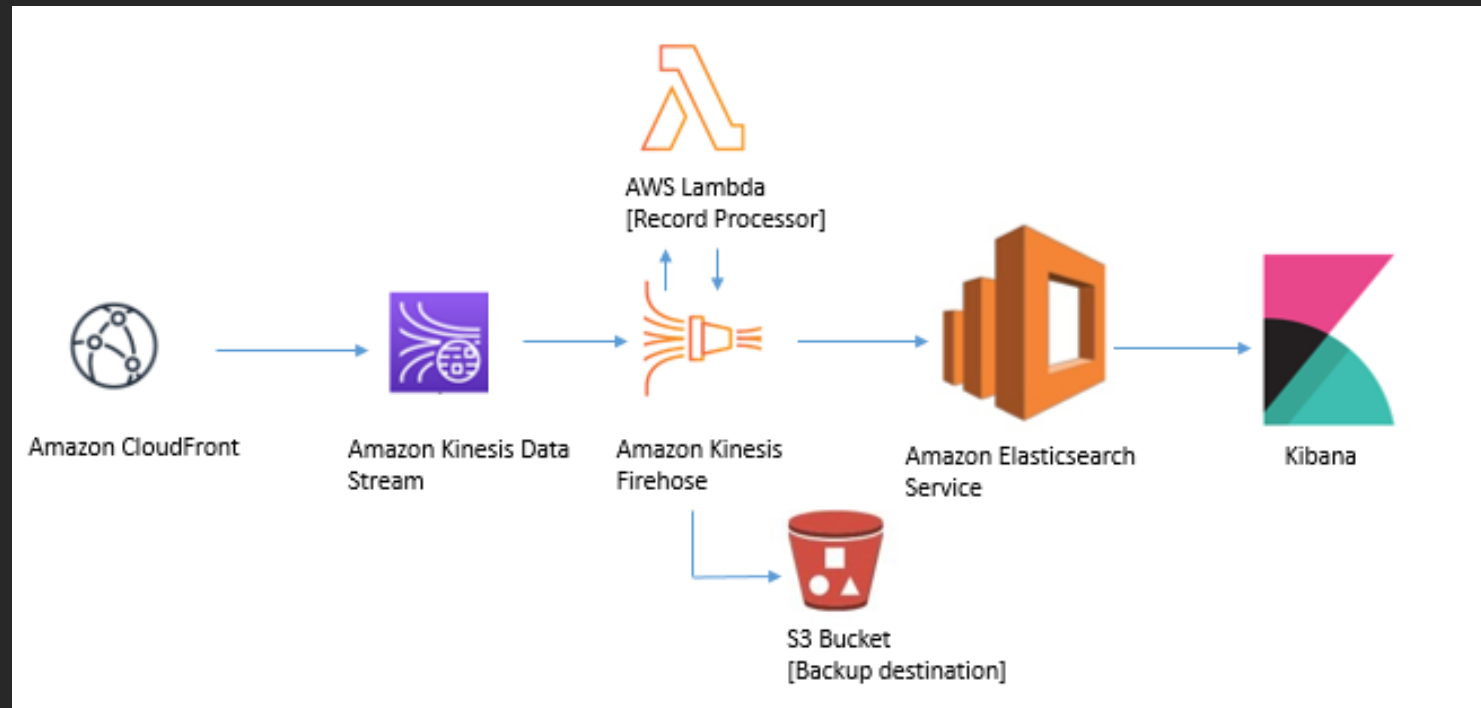- Real-time logs in Kinesis Data Stream

AWS Usage Report

- Report available to download in AWS Billing console after usage

CloudFront Real-time Logs

- Receive logs within 10 seconds

- Ability to configure the log delivery
  (choose log fields, define sampling rates, and setup logging for only selected cache behaviors).

- Logs delivered to a Kinesis Data Stream which can be published to any custom HTTP endpoint

CloudFront Real-time Logs

Demo

Thank you!

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