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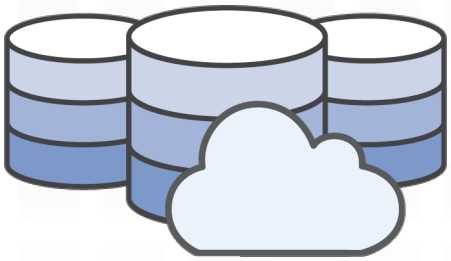

Big Data Case Study

WiFIRE Data Stream

About Traeger

Traeger is reinventing the grilling industry with wifi (WiFIRE) connected grills. Using WiFIRE, grill enthusiasts can set grill specifications and forget the rest. Grilling automation is performed by IOT connected grills that send data points to AWS for analysis. Demand for WiFIRE enabled grills created massive data streams that quickly outgrew the capabilities of a traditional RDBMS. Data stored in a Postgres database continued to grow while accessibility declined.

THE CHALLENGE

Tame the IOT data - Xively datastreams are difficult to partition and query. This increases cost and latency.

More grills, more data flow - As automated grilling demand grows, so do the database demands.

Forecasting for growth - Costs related to database and storage are unpredictable.

Big data means big queries - Frequently run reports reduce database performance.

THE SOLUTION

Create Lambda functions to extract, transform and load data in a format that is easily queried and stored.

Utilize Kinesis Firehose to transform files into Parquet format and store in S3. Query data using Athena.

Kinesis Firehose provides traceable costs, while Athena only queries relevant data.

Set partitions in Athena to query relevant data. Subsequent requests retrieve data from ElastiCache.

THE BENEFITS

Scale - Infrastructure on demand

Lambda functions work when you need them, never more.

Analyze - Increase data visibility

Information is power. Logical data partitions create deeper insight.

Budget - Reduce cost volatility

Build robust budget forecasts with predictable cost management.

ABOUT OBSERVIAN AND AWS

Observian provides the resources needed to improve your cloud operations. Our goal of helping you develop useful, repeatable, and automated cloud solutions is augmented with ongoing support and education.

Amazon Web Services provides a broad platform of secure, cost-effective, high-performance cloud services that help you collect, store, process, and analyze Big Data workloads.

NEXT STEPS

To learn more about how AWS and Observian can help your business, visit observian.com.