Plume

Plume powers **millions of smart homes** that generate over **27 billion operations per day** handled by YugabyteDB on AWS.

AT A GLANCE

Plume's intelligent WiFi platform is used by the world's largest ISPs.

MongoDB was unable to scale and Apache Cassandra was hard to operate.

60 nodes of YugabyteDB supports over 27 billion ops/day and 35TB of data.

Plume delivers WiFi solutions for both the consumer and ISP markets.

Plume enables ISPs to offer smart home and related services to their customers.

The Plume platform is cloud-based and features a fully integrated suite of products including hardware, analytics, integrations, services and mobile tools.

Plume helps ISPs increase monthly ARPU, reduce customer and service calls, plus improved NPS. Customers include Comcast, Sky UK and Bell Canada.

CHALLENGES

- MongoDB could not handle **increasing volumes of event data**
- Operating and managing MongoDB at scale was **time-consuming**
- Switching to Cassandra proved to be expensive and required significant operational resources
- **Apache Cassandra delivered poor latency** in the 3-5 second range at scale for the given workload
- Existing data infrastructure was unable to support the projected **75+ billion operations per day** and **85+ TBs of data** required in 2020

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With Yugabyte's data infrastructure solution, we are able to scale rapidly. Our partnership means onboarding new customers and maintaining GDPR compliance becomes a competitive advantage.

Aman Singla
Founder and Head of Engineering,
Plume

By migrating to YugabyteDB clusters comprised of a total of 60 nodes, we were now able to process over 27 billion operations per day with the ability to support 75 billion operations next year.

Muru Guruswamy
Principal Data Architect,
Plume

YUGABYTE SOLUTION

Fully managed YugabyteDB clusters comprised of 60 nodes

Multi AZ, Multi Region deployment

Deployed on AWS using Plume's VPC and partner VPCs

TECHNICAL RESULTS

312K+
Transactions per second

35TB
Dataset size

<30-40MS
Read/write latency

BUSINESS RESULTS
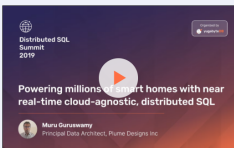
- Ready for GDPR in the future
- Easily onboard new customers
- Rolling upgrades without downtime
- Less time spent managing databases and more time spent on core business

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SEE MORE FROM PLUME

Distributed SQL Summit 2019

Powering millions of smart homes with near real-time cloud-agnostic, distributed SQL

Muru Guruswamy
Principal Data Architect, Plume Designs Inc

POWERING MILLIONS OF SMART HOMES WITH NEAR REAL-TIME CLOUD-AGNOSTIC, DISTRIBUTED SQL

Watch this video by Muru Guruswamy, Principal Data Architect of Plume, recorded at Distributed SQL Summit on Sept 20, 2019, to learn how Yugabyte helped them achieve their goals.