MOBILE NETWORK ANALYTICS SOLUTION

CLIENT OVERVIEW

Our client is a global provider of mobile internet optimization and monetization solutions for mobile network operators. Our client's solution is used by over a million operators for in-depth traffic analysis and to gain user insights while optimizing their respective subscribers' browsing experience.

KEY REQUIREMENTS

- Design and architect the solution to support high volume of transactions of 700 TPS per node
- Provide an interface to integrate multiple campaigns for each MNO while keeping every MNO statistics separate and secure
- Migrate data from Oracle to MySQL/ Aurora database to reduce the cost incurred in license and get high scalability
- Deploy the solution over AWS Cloud
- Thorough testing of seamless integration and collaboration of the existing client system
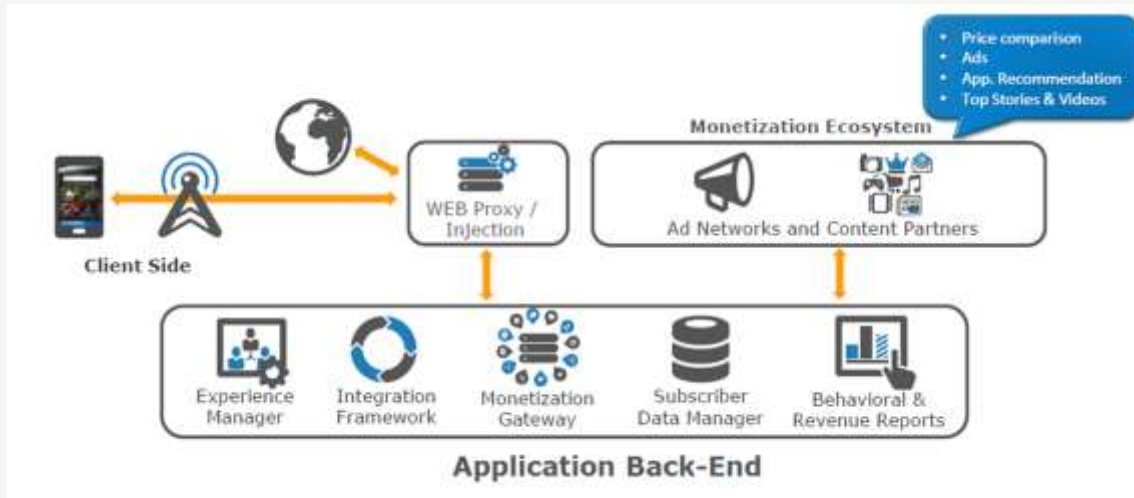
KEY CONTRIBUTIONS

- Designed architecture using Spring Boot to support high volume transactions of 1000 TPS per node
- Redesigned components of business intelligence and ad campaign management to incorporate AWS services
- Developed a new system using Scrum methodology for development and integrated with Content Fleet / Ad providers to support 3rd party content
- Developed Lambda functions to retrieve contents from external ad servers
- Defined and implemented Lambda invocations via S3 Events and Schedulers
- Migrated from Oracle to Aurora database for a higher availability of data and reduce the cost
- Automated AWS Cloud deployments to support and enable product deployment of customers
- Performed System Integration Testing as well as User Acceptance Testing
- Developed and tested ETS, EM, UDMP, L8NAS and JNodeMS components

KEY BENEFITS

- Increased system performance by leveraging AWS services and eliminated hardware maintenance thereby reducing infrastructure costs by around 30%

- Adoption of DevOps services resulted into 95% reduction in environment setup time and provided SIT/UAT support on client side

HIGH LEVEL ARCHITECTURE

TECHNOLOGY STACK

- Frameworks: Struts, Hibernate, Spring

- Web Technologies: JSTL ,JSON, XML, XSD, JavaScript, HTML, CSS

- J2EE Technology: JSP, Servlet

- Database: Oracle, MySQL, Aurora

- AWS Services: Lambda, API Gateway, Redis, Cloud Watch, RDS, S3

- Protocols: HTTP, TCP, SNMP, SMPP

- SCM Tools: Subversion, Tortoise SVN, Git

- Build Management: Ant, Gradle, Jenkins

- Servers: JBoss, Tomcat

- Deployment on: RHEL6 and AWS

- Analytics: Google Analytics & Mobile Analytics

About Xoriant:

Xoriant Corporation is a Product Development, Engineering and Consulting Services Company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 2000 software professionals. Xoriant has deep client relationships spanning over 25 years with various clients ranging from startups to Fortune 100 companies.