Case Study

Making Asia Pacific presence with fast and robust platform



Introduction

A start-up digital agency facing lots of challenges while making their presence over Asia pacific region by organising web events on which they are planning to invite huge audience during their live web events. During their web events they are also planning to deliver some marketing content to all attendees. To achieve these tasks this client decided to take consultancy and managed support from i2k2. In addition to achieve reliable and robust platform to provide seamless live streaming with other marketing content, they decided to move on AWS.

The challenge

This client is eagerly looking to achieve AWS infra and excited to run their first live web event. Being a start-up digital agency they want cost optimization with best services to achieve their all tasks like

- ✓ Consultancy to get optimized AWS platform
- ✓ Real-time scalability
- Setup a content delivery network
- ✓ Reliable infra to ensure seamlessness
- ✓ Managed Support

The Solution

After discussion with this client, i2k2 designed a solution diagram to achieve all the expectations of client. i2k2 decided to use the following services of AWS to facilitate this client:

- Setup the following to AWS Cloud as per best practices
 - a. EC2 (in Auto-scaling)
 - b. RDs (in Auto-scaling)
 - c. S3
- ✓ Amazon CloudFront
- Elastic Load Balancer
- ✓ User Acceptance Testing (Optional)

i2k2's solution architect team decided to put EC2 instances inside the auto-scaling group so that in case of heavy load on their webserver it will automatically spin new instance to manage the load at real-time. To ensure fast speed of DB, RD instances separately provided in active passive mode inside an auto-scaling group. RDs deployed in MultiAZ zones to ensure availability of Database at any cost. As this client want to distribute some marketing content during their web event, team has decided to deploy Amazon CloudFront for the CDN services. S3 also deployed to putting all the marketing and media content which will be given to the audience during that live web event. To distribute load over the available instances i2k2 also decided to deploy ELB which will automatically distribute the requests coming from the open network in the infra. Client also wanting managed support which is free of cost provided by the i2k2 to its all clients, 24X7X365 over the phone, chat and email.

S3: Experience Reliability & Scalability With AWS Online Storage Solutions. Sign Up For Free. Instantly Access Cloud Storage Designed for 99.999999999% (11 9's) of Durability. No Upfront Commitment. Secure Solutions. In-Memory Caching

CloudFront:

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment.

FI B: Elastic Load Balancing distributes automatically incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, Lambda functions, and virtual appliances. It can handle the varying load of your application traffic in a single Availability Zone or across multiple Availability Zones. Elastic Load Balancing offers four types of load balancers that all feature the availability, high automatic scaling, and robust security necessarv to make vour applications fault tolerant.

RDS: Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security and compatibility they need.

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The Architecture Diagram



Benefits

scaled to meet the

demand by launching

new instances. The ALB

load balances the traffic

among all the instances

and

performance

operational data



EC2 instances, in multiple onpremises applications Availability Zones. This increases the availability infrastructure resources. You can also of application. Add one collect/access all your or more listeners to your and load balancer as per your need.

securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within а developer-friendly environment.

Why Amazon Web Services (AWS)

AWS is a secure cloud environment. services offering compute power, database storage, content delivery and other functionality to help businesses scale and grow. Explore how millions of customers are currently leveraging AWS cloud products and solutions to sophisticated build applications with increased flexibility, scalability, and reliability.

By moving to AWS, organizations are realizing benefits such as a broad IT infrastructure, support for a variety of use cases, feature sets, enhanced visibility, and the ability to deploy globally within minutes.

Why i2k2 Networks

As an AWS Advanced **Consulting Partner & DevOps** competent Managed Amazon cloud services provider, i2k2 provides comprehensive folio of cloud solutions along with prompt and reliable support. Our partnership with AWS goes

several years back, even before we formalized our association with the company in 2013. Key reason to choose i2k2 was 20+ years of proven business. Talent is vast due to extensive IT exposure in India.

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