AWS Migration for Recruitment Platform Scalability

Migrating a flagship recruitment application to AWS Cloud for improved scalability, security, and performance under growing demand.

Overview

- Migrated the client's recruitment platform from Linode hosting to AWS for robust scalability and security.

- Rebuilt code and improved document view layouts while migrating the portal to ensure functional parity and improved user experience.

- Achieved measurable gains: 43% faster applicant record indexing and 22% improvement in response time.

Client Profile

The client is a leading recruitment technology provider in New Zealand, serving SMEs with digital hiring solutions. Their mission is to simplify talent acquisition through scalable, secure platforms.

Challenges

- Existing infrastructure could not support growing scalability and performance needs.

- Vulnerability to DDoS attacks caused downtime and poor user experience.

- High security risk due to sensitive account data and potential reputational damage.

QBurst Solution: Defense-in-Depth AWS Architecture

The core of the solution was a systematic migration to AWS Cloud combined with a defense-in-depth security approach designed to stop DDoS attacks without compromising performance. Our team set up parallel environments, migrated the three core servers, and integrated multiple security and performance layers. The solution involved:

- Migrating infrastructure to AWS with Cloudflare WAF/CDN for DDoS protection

- Implementing Fail2ban, AWS Security Groups, and EBS encryption for robust security

- Introducing failover mechanisms and elastic computing for high availability and scalability

- Optimizing database performance with AWS RDS and reducing latency via CDN

- Enhancing user experience by improving document layouts and upgrading WordPress components

Implementation Highlights

- **Environment Setup**
  - Three AWS EC2 instances for live, testing, and blog servers
  - Amazon EBS for storage and Amazon S3 for backups

- **Deployment**
  - Migrated servers from Linode to AWS
  - Configured Cloudflare WAF/CDN and centralized RDS database

- **Security & Monitoring**
  - VPC setup, SSH key authentication, Fail2ban, and AWS EBS encryption
  - Monitoring with Nagios, New Relic, and Graylog

- **Additional Features**
  - ElasticSearch, OpenOffice, JodConverter integration
  - WordPress upgrade and Beanstalk configuration

Impact

The migration established a highly secure and resilient infrastructure that directly contributed to measurable performance and efficiency gains.

- 43% faster applicant record indexing

- 22% improvement in application response time

- Significant reduction in latency and improved website performance

- Enhanced security posture with multi-layered protection