



OVERVIEW

INSZOOM Six Nines helped INSZoom – the world’s largest immigration software company – migrate their production environment from a colocation facility to Amazon Web Services (AWS), building the infrastructure using AWS services and best practice DevOps principles.

CHALLENGES

INSZoom offers solutions for immigration lawyers, corporations, universities, healthcare organizations and non-profit groups, providing a comprehensive platform that allows clients to share and process valuable information online, process immigration applications quickly and stay compliant during the process. INSZoom wanted to migrate their production environment from a colocation facility to AWS and needed an experienced AWS partner with expertise in architecting infrastructures using AWS services and DevOps principles. The company’s key requirements were around performance gains, cost improvements, repeatability, and security.

SOLUTION

Six Nines conducted an in-depth discovery and review of the current infrastructure with INSZoom and developed a strategy for the deployment of new resources. The study included a recommended infrastructure which adheres to best practices in regards to security, reliability, performance efficiency and cost optimization.

AWS SERVICES USED

Amazon Virtual Private Cloud (Amazon VPC)

- Production, Staging, Development and Operations Amazon VPCs
- Separate public subnets along with private application and database subnets
- Private subnets built utilizing new NAT Gateway service
- VPN connections from office to each of the four Amazon VPCs

Amazon Elastic Cloud Compute (Amazon EC2)

- Elastic Load Balancing (ELB) with Auto Scaling
- MSSQL Server
- Active Directory
- Various Job Servers

DevOps using AWS CloudFormation

- All Amazon VPC infrastructure built and launched via AWS CloudFormation
- Various tiers of the application, including the web application with Auto Scaling Groups and ELB, built and launched via template, enabling the rapid testing and deployment of multiple environments in a short time frame.

Six Nines built an infrastructure on AWS which included an Amazon VPC with two Availability Zones in us-east-1 designed for High-Availability and Fault-Tolerance with one public and two private subnets. The public subnet held the bastion host who was used to RDP into the private subnets bastion host. The bastion hosts in each private subnet were the only devices provisioned to access the individual application and database servers. Additional subnets were segregated and held the tiered servers.

RESULTS

By utilizing Auto Scaling Groups and ELB on the primary web application, INSZoom was able to realize cost and performance benefits to their web application. Without the need to run multiple idle servers 24 x7, INSZoom is now able to reduce their spending while still having the flexibility to meet demand during peak operations. By utilizing AWS CloudFormations, Six Nines helped INSZoom embrace DevOps principles allowing for an easily deployable, repeatable infrastructure removing to the potential for human error.



Premier
Consulting
Partner

DevOps Competency

Microsoft Workloads
Competency

Solution Provider

WHY SIX NINES?

Six Nines IT is an AWS Partner Network (APN) Premier Consulting Partner and AWS Solution Provider specializing in helping businesses migrate to the cloud responsibly. A member of the APN since its inception, Six Nines has successfully migrated hundreds of customers across all industries to the cloud and offers an unparalleled combination of speed, agility, experience, and proprietary solutions to deliver accelerated solutions and a rapid time-to-value. The Oakland-based company combines old-school, on-premises IT roots together with deep expertise and a laser focus on all things AWS – including a core concentration on High Performance Computing and Microsoft Workloads (AWS Microsoft Workload Competency and AWS DevOps Competency) – to deliver bespoke solutions that are individually tailored to meet customers' unique needs throughout the cloud lifecycle.

