

VIVIDCLOUD CASE STUDY

VividCloud develops a secure, scalable, HIPAA-compliant telehealth platform on AWS

Executive Summary

Generated Health is a startup company working to launch a new SaaS product, called Florence, for the telehealth market. The Florence software is well designed, intelligent, and efficient, but required a number of additions to make it a fully cloud native, enterprise-class platform that is compliant with AWS's Well Architected Framework.

Generated Health partnered with VividCloud to create a secure, scalable, HIPAA-compliant telehealth SaaS platform on AWS from their core software.

VividCloud's Solution

VividCloud's solution included a scalable AWS infrastructure, multiple AWS account structures, cyber security, CI/CD pipelines, automated testing and deployments of releases, performance monitoring, integration of 3rd party products, and operations support once the platform was deployed.



Generated Health is an exciting startup in the expanding high technology market in Maine.

They offer Florence, a digital services platform that serves as an extension of health professionals' care, so that patients can have healthier lives.

Patients are empowered in their self-care while clinician workloads are reduced, leading to better health.

Generated Health's Florence is a SaaS platform for clinical practices to improve health outcomes and gain efficiency by extending care outside of patient visits. It is an automated, intelligent messaging platform used with any mobile phone.

Industry: Healthcare

Location: Maine, USA

Service: Lorem Ipsum

Website: generatedhealth.com

Results

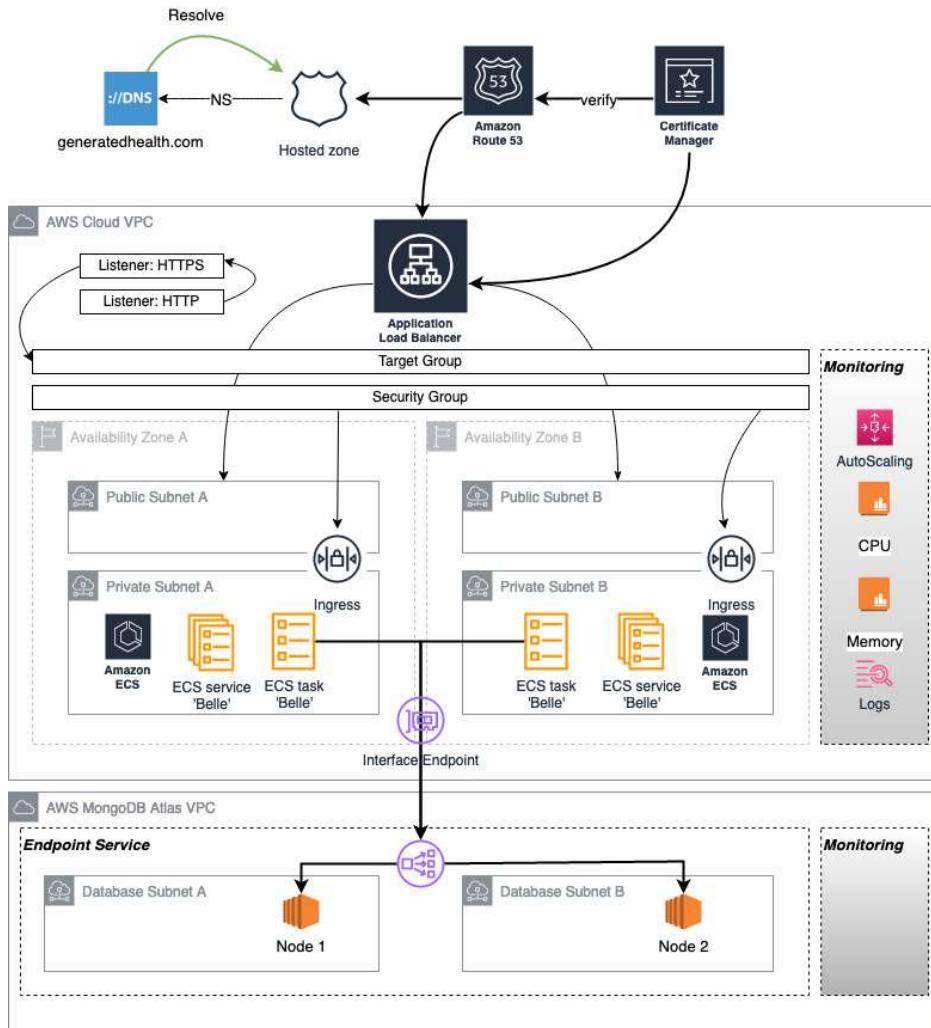
Generated Health's platform was deployed on schedule to support an initial cohort of five clinical practices. Since then, they have continued to onboard new customer accounts and patients.

Specific achievements of this successful project include:

- Reliable weekly code deployments into three distinct deployment environments.
- Highly available deployments to two availability zones.
- SMS service provider setup for a sandbox, staging, and production environments.
- HIPAA assessment and reports are generated on-demand by leveraging AWS Audit Manager, AWS Security Hub, AWS Config and SCPs.
- Automated CI/CD pipelines.
- DNS domain, maintained under Route53.
- Hosted Website moved to Lightsail.
- CloudWatch Dashboard to visualize performance of the applications.
- CloudWatch Alarms and SNS topics to automate monitoring.

Solution Architecture

On overview of the solution VividCloud architected and implemented for Generated Health's Florence platform.



AWS Services



The following services and capabilities of AWS are used in this solution:

- **AWS Route 53** registered Domain, hosted zones, and DNS records to provide access to the user/administrator as well as 3rd party services like Sinch (SMS)
- **AWS VPC Private Link** to keep communication between the application and MongoDB Atlas private
- **AWS VPC Security Groups, IGWs, NATs, subnets, and route tables** to provide a secure networking environment
- **AWS ELBv2, Target Groups** to route traffic from the internet to the application
- **AWS Certificate Manager** to terminate HTTPS on the ELBv2
- **AWS ECS ECR, Fargate, Cluster, Service, Tasks** to run the application
- **AWS CloudWatch Logs, Metrics, and Alarms** to simplify monitoring
- **AWS Audit Manager** to perform HIPAA assessments and run HIPAA reports
- **AWS IAM** roles and policies to grant access to AWS resources
- **AWS Control Tower** to setup an OU for Generated Health
- **AWS SSO** to provide access to the AWS Accounts

About VividCloud

VividCloud is a software development company focused on cloud and IoT. AWS is our cloud platform of choice, and we are an Advanced Tier APN Services Partner. We bring fully managed teams that free our clients from day to day oversight responsibilities.

VividCloud is based in Brunswick Maine, with 100% of our people onshore in the US.

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