



COMPUTER  
SOFTWARE



APPLICATION  
HOSTING  
ON AWS CLOUD



PROVIDED A SECURE, SCALABLE AND COST-EFFECTIVE SOLUTION  
TO FULL CIRCLE TECHNOLOGIES BY SHIFTING **WORKLOAD  
INFRASTRUCTURE TO AWS CLOUD**

**Start Date** – 4th October 2017    **End Date** – 21st December 2017



## CLIENT OVERVIEW

Founded in 1992, Full Circle Technologies is dedicated towards providing innovative internet-based technology solutions to its clients in the municipal. Headquartered in the heart of Boston, the company strives to offer the best experience to its customers along with exceptional tech support.



## CUSTOMER OBJECTIVES

Full Circle Technologies was looking for a reliable, high-performance solution for hosting their internal facing business application on AWS Cloud.

- The infrastructure should be secure & scalable
- The solution had to be cost-effective
- They required complete operations and management solutions all under a single roof – billing for AWS, infrastructure deployment, infrastructure monitoring services, infrastructure managed services.



## LANDSCAPE

- Application required two servers – 1 Windows and 1 DB server.
- 1 Windows server and 1 Windows & Web SQL server to run the application.
- Elastic Load Balancer to handle the traffic for application server.



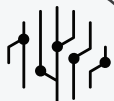
## SOLUTION APPROACH

- ASP.NET based application will be hosted on a 2 Core 8 GB RAM - Windows 2012 Server powered by high-performance SSD Disks in a Public Subnet with a public IP.
  - MsSQLWeb Edition DB will be hosted on a 4 Core 16 GB RAM – Windows 2012 Server. This will be deployed in a Private Subnet thus restricting public access to the database. SSD Disks used.
  - Elastic Load Balancer will be configured to handle the traffic for application server.
  - Daily Snapshot based backup of the EBS volumes will be taken for resilience.
- Availability Zone – North Virginia

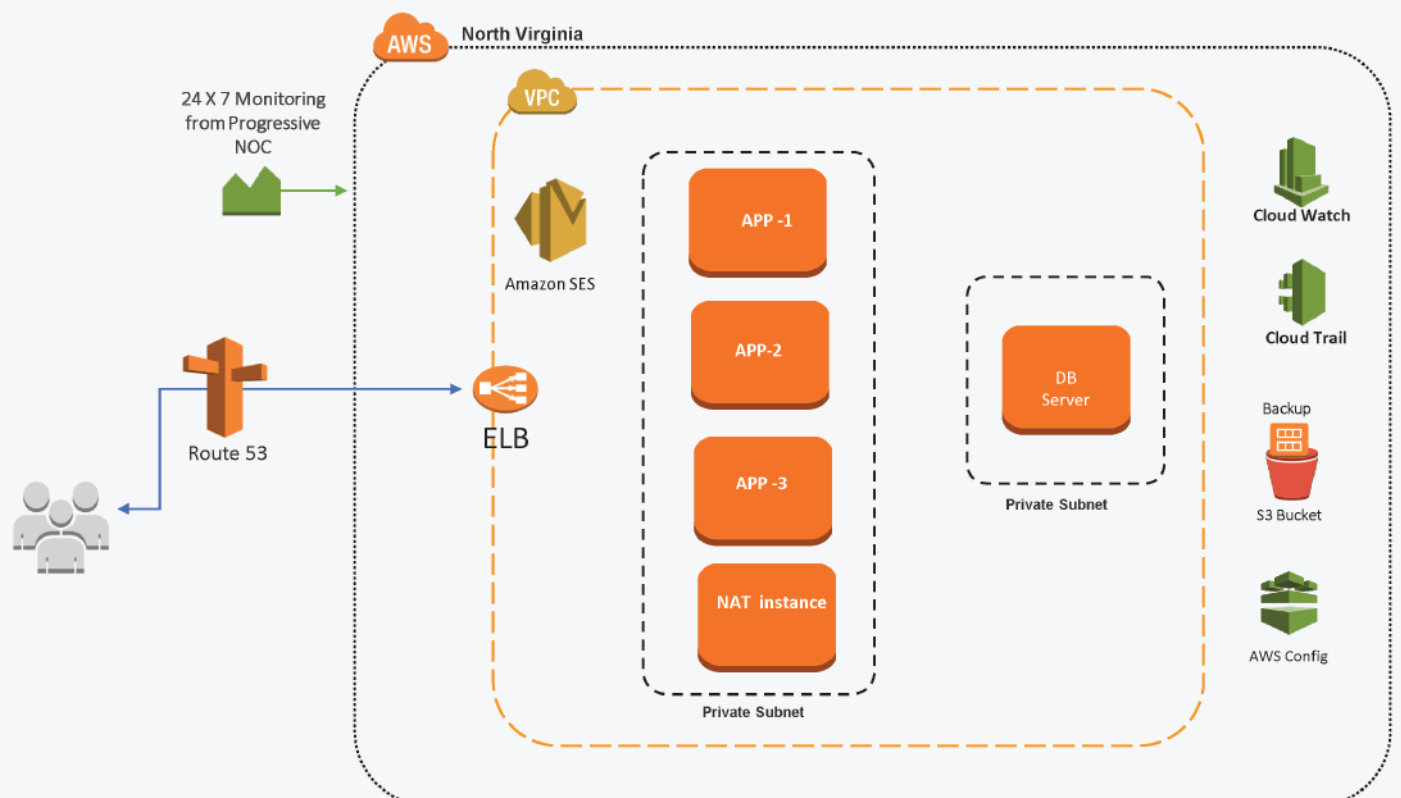


## OS PLATFORMS

Windows and Linux



## SOLUTION ARCHITECTURE





## SERVICES USED

EC2

SES

SECURITY GROUPS

CLOUDWATCH

S3, EBS, AMI

ELASTIC LOAD BALANCER



## OUTCOMES

- Compatibility of these applications with Windows Server.
- Enabled Application Performance Management Tool to monitor the applications behaviour and performance.
- Cost control in cloud as compared to on-premises infrastructure. Initially the customer was running this application through on-premises infrastructure.

Full Circle Technologies has opted 24x7 managed service support where Progressive Infotech is offering Proactive Monitoring, support, advisory, and management of the infrastructure. As part of the managed service deliverables, Progressive Infotech is committed in providing better customer experience through Alert Management, Security Controls, Infrastructure & Cost Optimization. Server start/stop has been enabled for the required business hours. Centilytics as a CMP tool is enabled for customer access which is helping us in cloud governance. APM Dynatrace is enabled to monitor the application behaviour.