Rikhav Securities Case Study

The Challenge:

Rikhav Securities is an innovative financial services company offering a full suite of easy to use brokerage, investing and banking related solutions, delivered at competitive prices. Rikhav Securities aims to continuously add value to our client portfolios by using an efficient and optimal blend of technology and human resources. They were looking for migration to cloud from on-premise set-up.

Start and end dates of project:

Start date: 22th July 2019

End date: 23th July 2019

The Solution

Network Techlab engaged with Rikhav Securities with a full turn-key migration of their on-premise server infrastructure to Amazon Web Services (AWS). The migration enabled Rikhav Securities to scale quickly and dynamically by utilizing EC2 elastic features and Amazon redundant object storage offering, S3 & Site to site VPN,SQL server in EC2, Rikhav Securities was so pleased with the work that Network Techlab provided that they contracted them to further enhance the application. Network Techlab is currently refactoring the Rikhav Securities application environment to take advantage of more native features of the AWS platform to increase high availability and scalability while reducing cost.

About Rikhav Securities

Company was first Incorporated on 21st March 1995, under the name of Brijmohan Sagarmal Finance Ltd and later renamed as Rikhav Securities Ltd on 13th January 2006.
We started the Full Fledged Operations from April, 2007 under the provisions of the Companies Act, 1956.
We have a Global Vision, and also have immense faith & respect for the values of our Indian Heritage. We believe that our company is different as we offer our clients an excellent infrastructure and our team of committed individuals also assist our clients regarding their financial portfolios. We are technologically mobile and adopt a client driven approach to problem solving. We have a strong client base and are confident that that our services and solutions have added value to the lives of our clients.

Architecture:
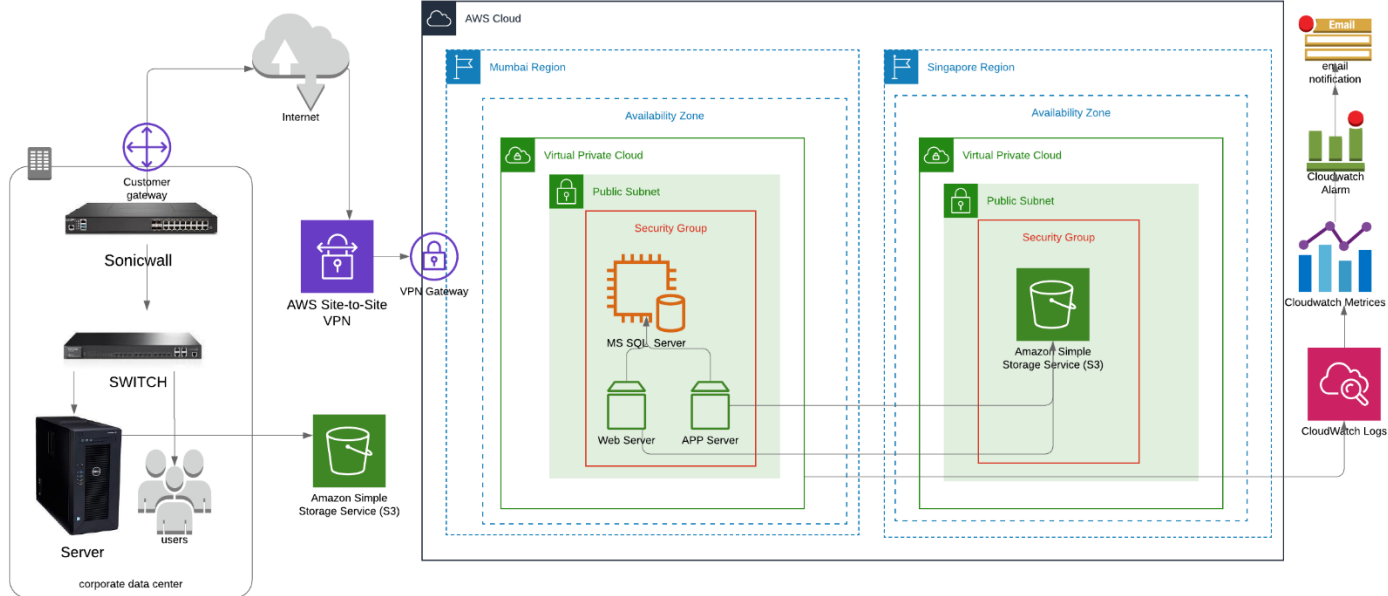
The Rikhav Securities application utilizes a Three-Layered Services Application running the Microsoft Windows Operating System. This provides isolation of services for both security and performance. The entire environment resides in a Virtual Private Cloud (VPC) to improve security in addition to Security Groups, Role-based permissions and custom Identity and Access Management (IAM) rules. The Presentation Layer, or Web Tier, utilizes ASP.NET and IIS to provide browser-based interaction. While on a separate subnet, the Business Layer, or Application Server, was implemented using the .NET framework. The isolated Data Layer utilizes the relational database Microsoft SQL (MSSQL).

Network Techlab utilized the following AWS services in the production solution:

- VPC (Virtual Private Cloud)
- Security Groups, Roles & IAM (Identity & Access Management) Rules
- NAT Gateway
- Windows on EC2
- MSSQL on EC2
- Flow Logs
- Site to site VPN
- S3

Results

Rikhav Securities is now able to onboard more customers significantly faster than they could by using their in-house solution. Also, on AWS, they can quickly scale their production stack as dynamically as their workloads scale. For example, Rikhav Securities can now easily increase their storage footprint and compute footprint utilizing AWS highly scalable features. Properly taking backup of data.

Benefits Achieved:

▪ **Performance:** The deployed architecture was optimized for serving Rikhav Securities customers in a more efficient manner. By splitting out the Presentation, Application and Data Layers, Network Techlab could select the optimized AWS instance that best suited each workload.

▪ **Pricing:** Rikhav Securities was able to reduce their costs of running systems locally which allowed their engineering team to focus on enhancing the product instead of spending time with hardware. In addition, they were able to transition from a CAPEX cost model to an OPEX cost model that aligned better with their SaaS model.

▪ **DR:** They have running there on premises environment now if any disaster happens on on-premises then they can also use workload in cloud.

About Network Techlab :

With 23+ years of experience in providing End to End customized Solutions and Services, our brand character is customized, professional, immediate, helpful and up-to-date with the latest technology developments. In IT Solutions, we provide complete IT Infrastructure, Hyper-convergence Infrastructure Solutions, Cyber Security Services, Networking Solutions, Mobility Solutions, Cloud Infrastructure, Cloud Storage Services and much more.

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