Healthcare

C A S E   S T U D Y

mdsynergy

SQL Server Rehost

HensonGroup
Azure Expert MSP Gold Partner

SQL Server Rehost
Case Study

About the Customer

MD Synergy is a healthcare data monitoring company providing mobility apps for professionals and medical institutions. The brand majorly deals in EHR (Electronic Health Records) and practice management software for global customers. MD Synergy has been extensively using Azure infrastructure with head count of 51-200 employees.
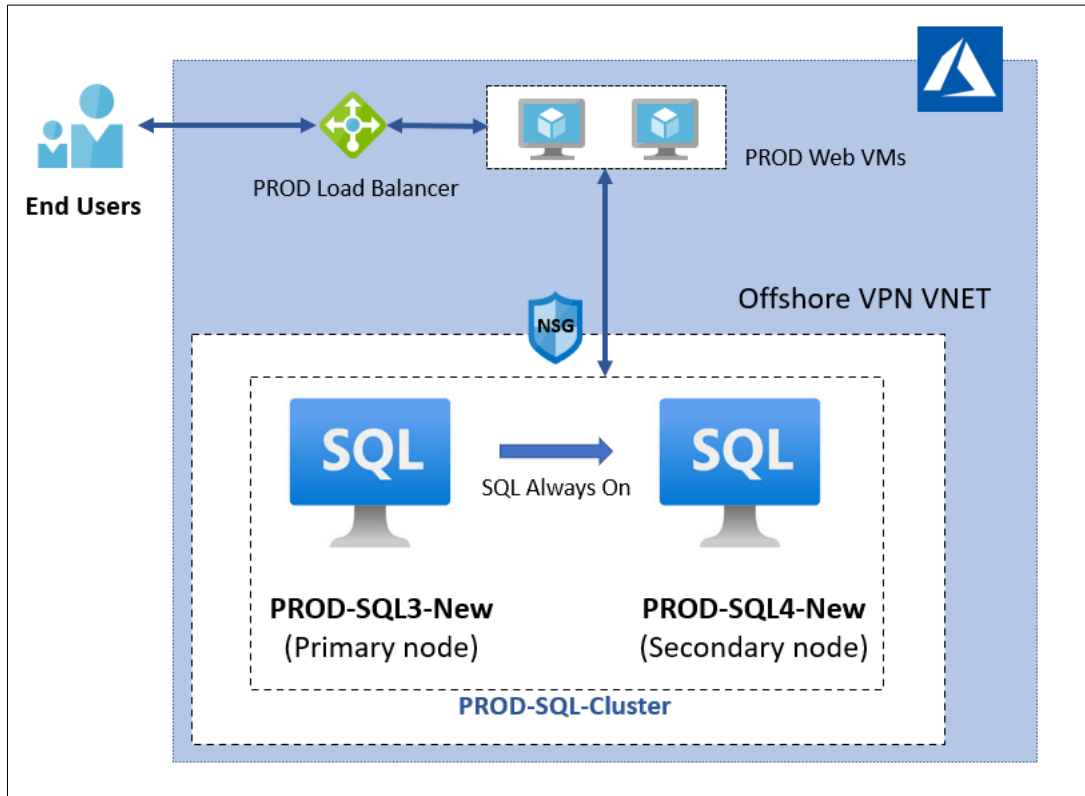
Business Requirement

The business had on-premise production SQL Server Virtual Machines (IaaS) Always-On setup with SQL Server 2012 SP4 Enterprise (11.x) with 2 servers with more than 3 TB data. The customer approached The Henson Group (THG) to migrate the setup to Azure with SQL Server 2019 Enterprise (15.x) along with a few modifications in VM Configurations.

Approach

THG started with learning the on-premise system architecture. In the old setup, the VMs in SQL cluster were running SQL Server 2012 Enterprise on Windows server 2012 R2 Data centre. The end users sent requests to a Load balancer frontend which further distributed the traffic across a set of Web VMs. Web VMs interacted with SQL cluster as required to send/retrieve data.

After the phase we outlined the following key expectations from the upgrade activity
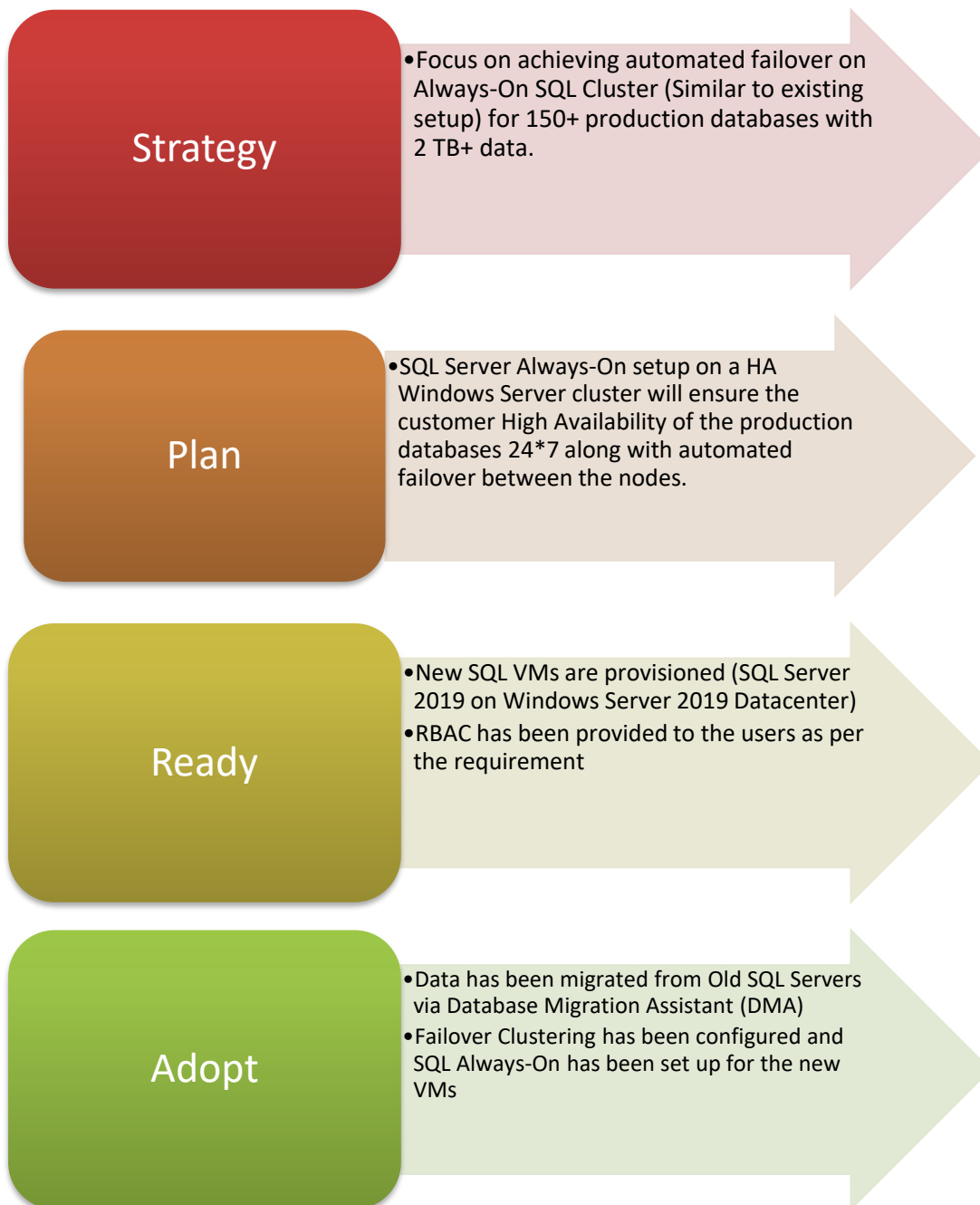
- Business wanted to use full version of SQL server for their production workloads
- Business wanted latest features available with SQL server 2019 Enterprise on Windows Server 2019 Data centre VM.

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The solution design proposed and approved for the project

Implementation

We implemented the Cloud Adoption Framework to perform the SQL migration from on-premise to Azure infrastructure.

Strategy
- Focus on achieving automated failover on Always-On SQL Cluster (Similar to existing setup) for 150+ production databases with 2 TB+ data.

Plan
- SQL Server Always-On setup on a HA Windows Server cluster will ensure the customer High Availability of the production databases 24*7 along with automated failover between the nodes.

Ready
- New SQL VMs are provisioned (SQL Server 2019 on Windows Server 2019 Datacenter)
- RBAC has been provided to the users as per the requirement

Adopt
- Data has been migrated from Old SQL Servers via Database Migration Assistant (DMA)
- Failover Clustering has been configured and SQL Always-On has been set up for the new VMs

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Post Implementation Benefits

- ➢ Reduced maintenance overhead of the infrastructure as compared to on-premise
- ➢ Latest features of OS and SQL Server
- ➢ Better compliance with mobility
- ➢ Optimal user experience and faster content delivery
- ➢ Uninterrupted processing with no down times

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