Case Study

Medical Care Provider Network

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The Challenge

A Medical Services Network with multiple integrated doctor's offices, hospitals and pharmacies and one of the largest MongoDB users in the world was running six MongoDB environments including three sharded environments and three replica sets.

They were getting a large number of alerts, resulting in so much frustration that their sole remaining DBA left the company. The organization contacted Datavail for help.

In growing organizations, the increase in the variety and velocity of data results in many challenges including a large increase in the number of alerts. The right software solution - combined with skilled implementation and management of the software - can virtually eliminate these alerts.

For some, an increase in alert volume may be passed off as a symptom resulting from the volume and variety of data growth. But rather than tying up DBA resources to address these alerts - of which many were false, the client reached out to Datavail for third-party help.

The Results

The result was a dramatically improved database operation using a fraction of the space and an alert rate that was reduced from hundreds of daily alerts to just a few weekly. The client enjoyed a significant capacity gain for future growth as storage space was reduced by 80%.

How Datavail Helped

First, Datavail conducted an assessment of the overall architecture of the system, recommending both hardware and software changes. These included a migration from SQL Server to MongoDB that involved 12TB of data, Datavail also consolidated their databases, took them from development through testing and into production with little downtime to the client environment.

As the organization had three databases on MongoDB 2.6, and the balance of their environment on MongoDB 3.0, Datavail replaced the storage engine, integrated the drivers, and then upgraded everything to MongoDB 3.2. One of the final activities was for Datavail to implement best practices, including writing a custom backup script in Python that the client could rely on for future needs.

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