We can do that.

Data Center & Networking:
Virtualized Data Center Project

With a **24-unit, outdated** server farm supporting their **data center,** our **Healthcare** client came to us **looking for** some serious **solutions.** We delivered by **architecting and designing** a **virtualized** data center. So goodbye **farm.** Hello energy **efficiency,** server **stability,** and **cost savings.** | **Problem solved.**

For over 100 years, our client has provided health care services to residents in Western New York. Once a small rural hospital, it is now a diverse, comprehensive system with many clients and employees. The system includes a charitable foundation, as well as hospital locations in in Dansville, Geneseo, and Lakeville.

PROBLEM

Our client was faced with the following challenges:

■ **Inefficient application and server usage.** One or two applications were allocated per server, which was inefficient, inconsistent, time consuming, and labor intensive to manage.

■ **Business continuity issues in the event of a disaster.**

■ **Energy inefficiency.** Operation and cooling energy costs were high for this sprawling server architecture.

■ **Expensive server maintenance.** Lifecycle management required replacing eight units annually.

SOLUTION

The consilium1 team addressed the challenges with the following:

■ **Virtual data center architecture and design.** Utilized VMware software to consolidate all hospital applications onto only three servers.

■ **Business continuity.** Application load is balanced across all three virtualized servers. In case of server failure, all hospital technological processes continue seamlessly across the other two servers.

■ **Application component analysis.** The c1 team worked alongside the hospital's IT team so the hospital team had a thorough understanding of the new technology.

RESULTS

The measures implemented by the c1 team produced impressive outcomes for our client, including:

■ **Reduction of physical servers from 24 to 3.** Resulting in less equipment, space, and power consumption.

■ **Extended the lifecycle management of a cohesive standardized platform.** Instead of replacing 8 servers annually, the hospital now only needs to replace one on its three-year cycle.

■ **System stability.** Faster disaster recovery in the virtualized environment. More efficient back-ups.

■ **Better forecasting.** Measuring and reporting capabilities in the virtualized environment enables prediction of future needs.

■ **Significant cost savings.** The cumulative three-year total cost of ownership resulted in 25.8% savings, creating a project payback period of 6 months.

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