



DATE: February 14, 2024
TO: Ty Lasher, City Manger
FROM: Ted Henry, Assistant City Manager/ Finance Director
SUBJECT: Server Migration and Upgrade Proposal

Summary

The current server infrastructure, specifically COBASBSP01, which is running on Windows Server 2012, is facing critical hardware and software challenges. With the operating system no longer supported by Microsoft, the risks associated with security vulnerabilities, and the potential for data loss due to hardware failure, are significantly high. The server currently has two failing drives, and the loss of an additional drive could result in the complete failure of our Domain Controller. To mitigate these risks and ensure business continuity, a migration to a cloud-based solution is proposed.

Proposed Solution

A cloud solution has been explored and quoted to address the immediate needs of reliability, scalability, and compliance. This solution involves:

Cloud Platform: Azure

Migration Strategy:

- Establishment of an Azure VPN Gateway to secure and facilitate the transition.
- Creation of new Virtual Machines (VMs) on Azure to host our services.
- Migration of all data, applications, and configurations to the new cloud environment.
- Configuration of roles on the new Azure Domain Controller (DC).

Decommissioning: Post-migration, the old server will be decommissioned to avoid unnecessary risks and costs.

Benefits

Security and Compliance: The new environment will be fully compliant with CJIS standards, ensuring data is protected according to required legal frameworks.

Reliability: By moving to Azure, we benefit from Microsoft's robust infrastructure, reducing the risk of hardware failures.

Scalability: Cloud services allow for easier scaling of resources based on demand, offering a flexible solution to our growing needs.

Cost: The subscription-based model based on consumption provides a predictable and more efficient cost structure compared to maintaining aging hardware.

Finance

Costs associated with this project will be paid by the Equipment Replacement Reserve Fund.

Conclusion

The migration to a cloud-based solution not only addresses the immediate risks posed by the current server's hardware failures and unsupported operating system but also positions our infrastructure for future growth and innovation. By adopting a scalable, secure, and compliant cloud environment, we ensure the continuity and efficiency of our operations, safeguarding our organization's data and services.