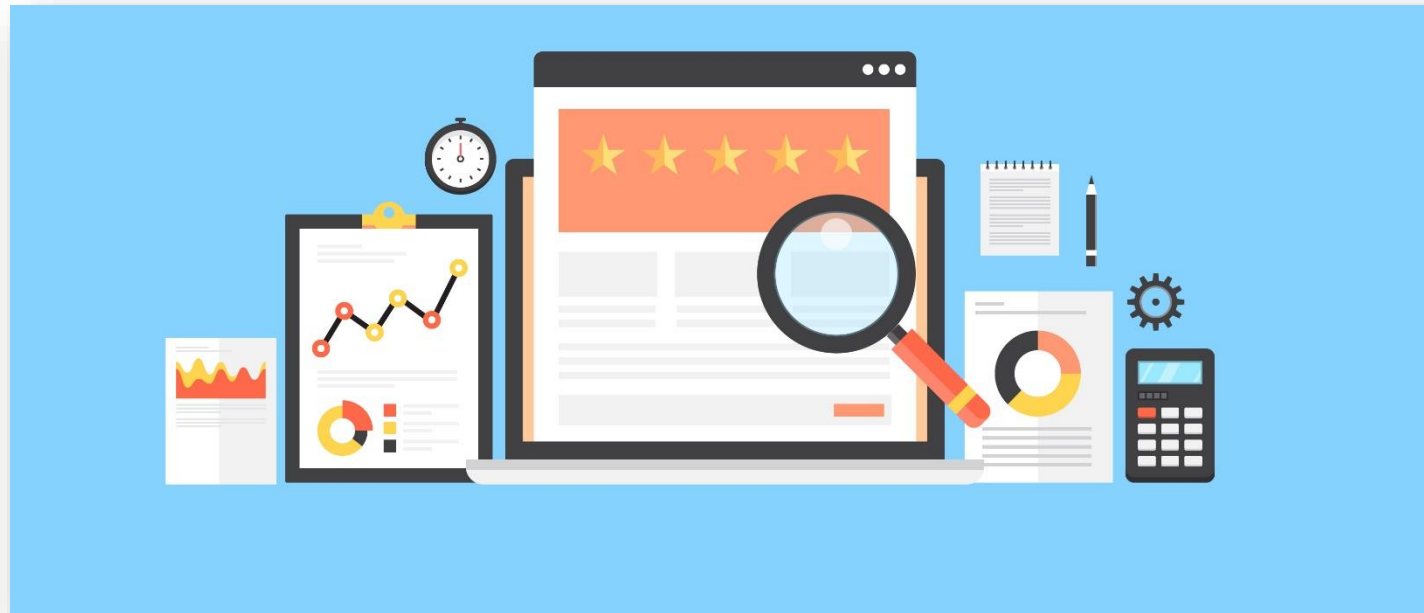


Data Architecture Review – CompanyZ

Business Summary & Recommendations



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Availability

Subject	Current State	Recommendations
RTO	Manual Solution – Minutes Can Take Much Longer	Automate the Failover Solution, and Reduce the RTO to Seconds
RPO	Zero to a Few Seconds Can Be Much More	Make the Data Replication Synchronous
Business Continuity	The Secondary Server Doesn't Match the Primary Server	Upgrade and Update the Secondary Server
Business Continuity	No DR Solution The System will not be Available in case of a Site Failure	Add a Third Server as Part of a DR Solution

Performance

Subject	Current State	Recommendations
Response Time	Average – 2.3 Seconds	Install the Latest SQL Server Build Optimize Queries
Throughput	1,238 per Second	None

Security

Subject	Current State	Recommendations
Breach Protection	Passwords Not Strong Enough Privileges Too High Standard Ports ...	Update Password Policy Update Privileges Replace Ports ...
Data Encryption	Sensitive Data is Encrypted Database Files are not Encrypted The System is Exposed to Stealing and Restoring the Files	Encrypt Database Files
Regulation Compliance – GDPR	No Separation Between Personal Data and Direct Identifiers Exposed to Very High Fines	Redesign the Database to Support Pseudonymization

Maintenance

Subject	Current State	Recommendations
On-Going Maintenance Operations	Missing or Inefficient Operations	Rewrite a Process to Handle Index and Statistics Maintenance Add a Process to Check for Data Integrity
Data Archiving	Very Inefficient Process	Rewrite the Process

The Next Step

- Detailed Technical Report
- Proposal for Implementing the Recommendations and Providing Training
- Proposal for Mentoring, Consulting and Training

WHAT'S NEXT?

