Rock Your Data Warehouse with Snowflake | 2 weeks Proof of Concept

SUMMARY

Snowflake Proof of Concept will allow you to properly evaluate modern cloud data warehouse against your existing solution and it will demonstrate the full potential of Modern Analytics Solution.

It's time to replace your data warehouse. Waiting days or even weeks to analyze your data is no longer acceptable. Your executive team wants real-time insights to match the pace of business, and your data scientists are frustrated by limitations placed on their queries and the inability to load, transform and integrate semistructured data.
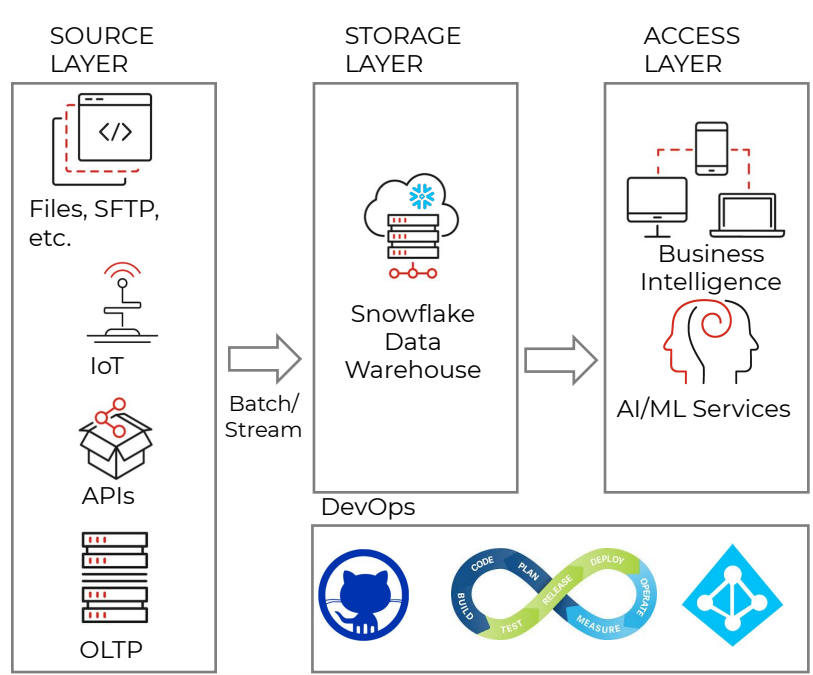
Snowflake cloud data warehousing offers a new way to think about what's possible when you move from on-premises to the cloud.

SOLUTION

We use guidelines and best practices for setting up a PoC approach that help you to properly evaluate a modern cloud DW against your existing solution.

These criteria represent the features and benefits that your business needs in order to compete in a data-driven world.

With scalability, concurrency and access to all of your data, speedy and accurate decision making becomes a piece of cake.

SOURCE LAYER — Files, SFTP, etc. — IoT — APIs — OLTP

Batch/Stream

STORAGE LAYER — Snowflake Data Warehouse

ACCESS LAYER — Business Intelligence — AI/ML Services

DevOps

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- **Concurrency testing** - we create a workload framework that includes a mix of small, medium and large queries in order to watch how the system handles surges in loads with auto-scaling.
- **Scalability** - we do performance testing to experience linear scalability to see how a cloud-built data warehouse handles two, three and four times the warehouse size you have today.
- **Software lifecycle** - We clone DW to create Dev, QA, staging and research datasets before we spin up warehouse clusters for each function.
- **ETL and BI workloads** - We spin up separate, concurrent warehouses for ETL and BI, without compute contention, so the ETL can provide fresh data with no impact to the performance of BI and other workloads.
- **Semi-structured data** - We query and explore semi-structured data sets. Explore the value to the business of loading, integrating and analyzing JSON, Avro, Parquet and XML data with your structured data in a single data warehouse.
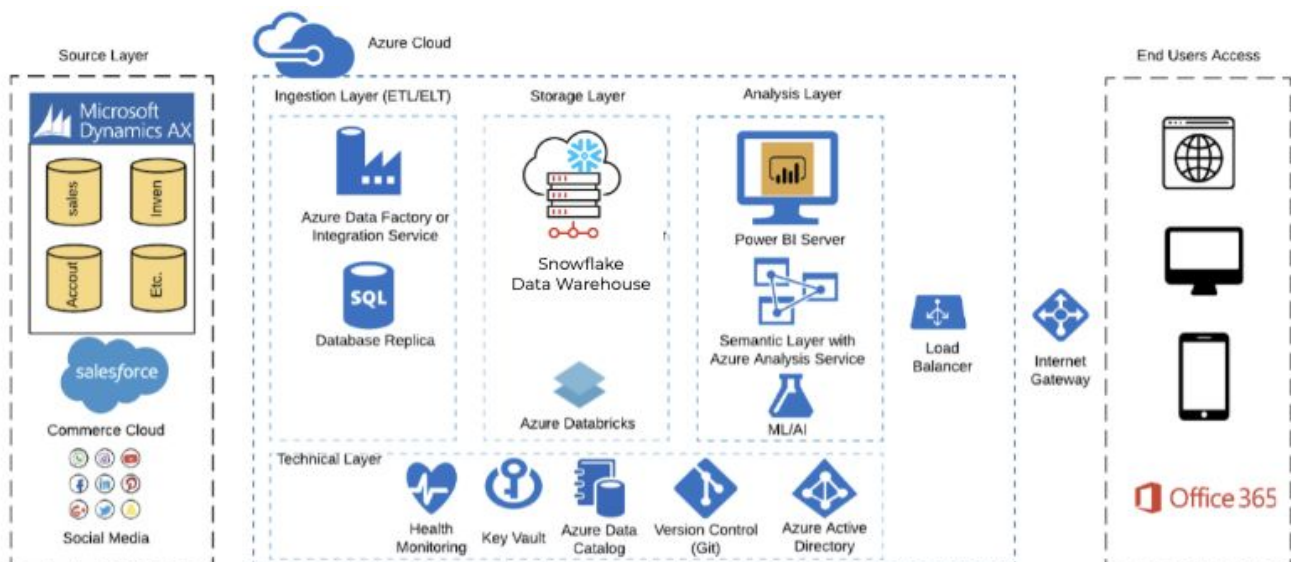
Each of these criteria may be impossible to test with your existing system. But they represent the future for data-driven organizations and the gold standard for today's modern cloud data warehouse.

RESULT

During PoC we will define scope and success criteria for Snowflake PoC. Result of PoC will include end-to-end solution. The key elements are:

- Running Snowflake Instance
- Data Pipelines (ETL/ETL) that loads data for specific business use case
- Staging and Business data warehouse layers
- Development and Production Snowflake Environment
- Business transformation logic
- Business Intelligence Integration

Snowflake PoC is a great start towards Modern Analytics Data Platform with Snowflake on Azure: