

Optimization Services for Snowflake Data Cloud

SELF-SERVICE · STAND-ALONE · SAAS

Automated Health Checks

Issues & Remediations

Query Performance Analyzer

Common/Complex Inefficiencies

Advanced Cost Predictor

All Spending Types



Intelligent Alerting

Automatic/Dynamic Thresholds

Granular Chargebacks

Business Unit/
Application/Team Levels

With Nadilytics, an integrated solution for the Snowflake Data Cloud, customers get complete transparency with Snowflake's usage-based pricing model, and empower themselves with cost optimization, cost prediction, and chargeback. Customers can address challenges such as:

- Query performance tuning analysis that requires an in-depth understanding of the query lifecycle and is a manual process
- Setting a balance between cost savings and query performance
- Reducing security complexity and risks
- Knowing and enforcing Snowflake best practices in all aspects of the Snowflake Data Cloud

FLEXIBILITY TO CHOOSE A COMPLETE BUNDLE OR STAND-ALONE SERVICES



What It Covers

With Nadilytics bundled services, customers can increase the return on their Snowflake investment. Our unique, automated health checks identify inefficiencies and anomalies, and then provide step-by-step remediation. Our cost-efficient services provide complete observability of your account processes with a focus on improving overall usage, cost, performance and security.

USAGE



Detect and reduce unnecessary consumption with intelligent alerting

COST



Analyze spending waste and forecast costs for over ten spending types

PERFORMANCE



Identify query issues and perform automatic analysis with performance query analyzer

SECURITY



Reduce security complexity and risks and monitor data access

Automated Health Checks



Unique to Kloudgen

DETECTION

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- ✓ Schedule automatic periodic detection of inefficiencies
- ✓ Supports dynamic thresholds
- ✓ Complete in 20 minutes or less

| Generated On | Status | Actions |
|---|----------|-------------------------------------|
| Jun 2nd 2023 07:01:36 AM CDT (12:01:36 PM UTC) | Complete | 🔍 📄 |

ALERTING & REPORTING

2

Alert on warehouses with potential scale out

| RESOURCE | STATUS | REASON |
|--------------------|--------|--|
| Warehouse: NADI_WH | alert | On 2023-05-10 Warehouse NADI_WH had an average queries queued: 1.60 out of an average running queries: 22.61 |
| Warehouse: NADI_WH | alert | On 2023-05-11 Warehouse NADI_WH had an average queries queued: 74.41 out of an average running queries: 76.24 |
| Warehouse: NADI_WH | alert | On 2023-05-12 Warehouse NADI_WH had an average queries queued: 102.27 out of an average running queries: 77.05 |
| Warehouse: NADI_WH | alert | On 2023-05-16 Warehouse NADI_WH had an average queries queued: 7.07 out of an average running queries: 39.71 |



- ✓ Detects deviations, inefficiencies and anomalies
- ✓ Checks over 110 data points across Snowflake deployment
- ✓ Secure client access to full PDF report with graphic representation of the execution

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CORRECT AND SAVE \$\$

- ✓ Receive action plan specifying step-by-step recommendations for potential remediation

Remediations:

What:

- Purpose of the alert is to monitor the warehouses that can be considered for scale out.

Why:

- Multi-cluster warehouses are designed specifically for handling queuing and performance issues related to large numbers of concurrent users and/or queries. In addition, multi-cluster warehouses can help automate this process if your number of users/queries tend to fluctuate.

How:

- Analyse the warehouse and the statistics of average queued and running queries. If the average queued queries is consistently increased, Analyse the spike of query count queues in the warehouse and check its consistent during the peak hours.
- In those cases, scale out the warehouse depending on the requirement.
- **SCALE OUT WAREHOUSE:**
 - Multi-cluster warehouses are designed specifically for handling queuing and performance issues related to large numbers of concurrent users and/or queries.
 - **MULTI-CLUSTER - MAXIMIZED:**
 - Analyse the queued query count and if the count is consistent during any peak hours(O) if you have large numbers of concurrent user sessions and/or queries and the numbers do not fluctuate significantly. Try using maximized mode (Min and Max cluster value will be same).
 - after warehouse set min_cluster_count=.
 - **MULTI-CLUSTER - AUTO SCALE:**
 - Analyse the queued query count and if the count is in consistent during any peak hours(O) if you want to save credits during the peak hours. Try using auto scale mode (Min and Max cluster value will be different).
 - after warehouse set min_cluster_count=.
 - When determining the maximum and minimum number of clusters to use for a multi-cluster warehouse, Snowflake recommends to start with Auto-scale mode and start small (e.g. maximum = 2 or 3, minimum = 1). As you track how your warehouse load fluctuates over time, you can increase the maximum and minimum number of clusters until you determine the numbers that best support the upper and lower boundaries of your user/query concurrency.

ACT ON RECOMMENDATIONS TO REDUCE CONSUMPTION, OPTIMIZE PERFORMANCE

Why Snowflake + Kloudgen for Nadilytics?

THE COST-EFFECTIVE SOLUTION

- ✓ Bundled optimization services are also offered as standalone services.
- ✓ Nadilytics is a web and mobile application offering multiple editions and flexible pricing models to accommodate all organizations' size and budget.
- ✓ Seamless setup, with no need to move your data or insert any code into your Snowflake account. Quick client onboarding with defined user access and dedicated virtual warehouse.
- ✓ Snowflake cost/performance analyzer, optimizer and predictor.

UNIQUE BENEFITS

- ✓ Fully automated, with continuous improvements and updates.
- ✓ Saves clients time, energy and money, allowing them to focus on their core business competencies rather than developing in-house solutions.
- ✓ Minimize the time between occurrence of issues and resolution with scheduled automatic health checks alerting on inefficiencies related to usage, cost, performance and security.
- ✓ Provides in-context continuous learning to effectively enforce Snowflake's best practices and keep up with Snowflake's new features and native capabilities.

REQUEST A DEMONSTRATION TODAY

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