

NosDB Release Notes

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Release Notes NosDB 2.0

Tuesday, April 18, 2017

Introduction

NosDB 2.0 contains new features, major stability enhancements and performance improvements.

New Additions

Following are the new features introduced in this release.

1. Primary Key Support

NosDB now supports primary keys against each collection. This feature allows users to nominate field(s) for unique identification of the document as with primary keys in SQL.

2. Expiration Strategy

In NosDB, a user can configure expiration strategy against a collection to automatically delete document(s) from it; after certain time has elapsed. Expirations can be interval based or it can be an absolute time.

3. Joins Query

NosDB 2.0 provides the ability to combine documents from more than one collection based on JOIN criteria. NosDB supports both equi and non-equi joins.

4. Sub Queries

NosDB supports sub-queries in where clause & returns array of single attributes. These queries are only supported in Select statements and can't be more than 1 level deep.

5. Data Encryption

NosDB provides built-in standards for database level document encryption. Various encryption providers are supported.

6. Multiple NIC Binding

NosDB supports utilization of multiple Network Interface Cards (NICs) to distribute communication load for performance optimization. Dedicated NICs can be allocated for client-server communication and cluster communication.

7. Custom Security Roles

NosDB 2.0 provides flexibility of defining custom roles for users which grant a customized set of varying operation permissions to a user. Custom roles have database level scope, meaning the custom role can only be created on a database or can have permissions on databases only.

8. Client API Changes

Client API has been changed to accommodate the Primary Key feature provided by NosDB 2.0.

9. Node.js Client

Node.js client SDK to connect to a NosDB database is released with NosDB 2.0

10. Entity Framework Core

Entity Framework Core provider for NosDB is released as a NuGet package.

List of Bugs Fixed:

- 100009 FIX: Unable to create new cluster on same server set after removing the already created cluster.
- 100010 FIX: Upon killing/stopping primary CS service, others nodes (which are not part of CS) are unable to resume the heartbeat task.
- 100011 FIX: Shard nodes membership information is not replicating to the secondary CS node.
- 100012 FIX: Unable to perform any management operation on cluster after the removal of primary CS node.
- 100013 FIX: On restarting the primary CS service, all shard nodes stop and primary nodes demote themselves.
- 100014 FIX: Shard nodes and CS are not in sync about the primary node.
- 100015 FIX: Replication stops on 3rd node on removal of existing primary in a 3 node single sharded cluster.
- 100016 FIX: After removing primary node, client does not switch its operations to new primary.
- 100017 FIX: Standalone configuration is also replicating whereas it should not.
- 100018 FIX: Database cluster cannot be managed through nodes other than primary CS.
- 100019 FIX: Client is not able to auto-reconnect on restarting the CS & DB services at primary nodes.
- 100020 FIX: Takeover election stop the client activity till election completion although client is only performing READ operations.
- 100021 FIX: Manager is not disposing its opened connections on cluster removal/disconnection.
- 100022 FIX: Unable to query on database after removal of primary CS node.
- 100023 FIX: On removal of primary CS node, last management operation gets reverted.

Release Notes NosDB 1.3 (Service Pack 1)

Thursday, July 21, 2016

Introduction

NosDB 1.3 SP1 contains some new additions and changes to the client side features which are majorly related to Management, Import/Export and Caching.

Enhancements and New Additions

Following are some enhancements made in this release:

11. Client Side Management API

A new static API in client, NosDBManagement contains capabilities to perform management tasks such as starting and stopping shards and nodes, and importing/exporting of data.

12. Advanced Import and Export

A new and advanced Import/Export features some powerful capabilities that include the ability to specify the delimiters and text qualifier for csv. The import/export tools have also been updated. They now report the progress of the task by printing the count of lines imported/exported. Additionally, the Import/Export has been moved from being a collection specific API to NosDBManagement as a static API.

13. Client Side Cache Configuration

Users can now specify a cache behavior, expiration type and interval through the configuration or the API. The cache behavior specifies what to cache i.e. the fetched documents, the result of queries or everything whereas the expiration type and the interval cause the cache to expire the cached items accordingly.

The client side cache is now configurable through three different ways. There's the default configuration placed in app.config. Then there are CacheBehavior and ExpirationType properties on DBCollection. Finally, there's the individual overloads of APIs (GetDocuments and ExecuteReader) introduced with cache parameters.

14. Client API Changes

A few more overloads of different methods are introduced to give more control over caching. A few overloads are removed.

15. Trackable Aggregations

The ExecuteAggregator in the Client API now returns an ITrackableObject which essentially tracks the progress of the aggregation task and notifies the client when the task is complete.

16. Removed -Shard Parameter from Test-Stress

-Shard parameter from Test-Stress is removed. It was used in Professional and Open Source editions to specify the shard name against which the tool should be run. Now this tool runs against all shards of the cluster as it does in Enterprise without specifying a shard name.

List of Bugs Fixed:

100001 FIX: No Exception is thrown in case the CSV being exported contains Arrays.

100002 FIX: CSV Export does not support Embedded JSONs.

100003 FIX: Windows Authentication is disabled by default in provided samples.

100004 FIX: The samples connect to the standalone local instance by default instead of the database cluster.

100005 FIX: Database service takes too much memory if clients are left running for days.

100006 FIX: 'Monitor' option in the context menu of a standalone database opens the NosDB Monitor but doesn't take to dashboard directly.

100007 FIX: Operations fail on database if a client side caching is configured but cache is not running.

100008 FIX: Get-TasksInfo Cmdlet is missing in Open Source edition.