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[Install Guide]

NitroAccelerator™ Turbo for SQL Server
QUICK START EVALUATION GUIDE

What is NitroAccelerator Turbo?

NitroAccelerator Turbo is an innovative technology that compresses network traffic for SQL Server 2000, 2005, 2008, 2012, and 2014. By optimizing the Tabular Data Stream (TDS) protocol, NitroAccelerator allows for better data transfer performance while reducing network traffic. We have added several features to NitroAccelerator to Turbo charge performance including:

- **Adaptive packet compression** dynamically adjusts TCP packet size based on the result set size
- **HyperCacheTM** technology provides huge performance benefits by minimizing the transfer of data between endpoints
- **Intelligent protocol detection** enables compression of non-native TDS implementa tions like Java applications

NitroAccelerator Turbo is backward compatible with prior versions of NitroAccelerator so upgrades can be done as systems become available.

Install NitroAcclerator Turbo

Server Install
- Run the NitroAccelerator installer.

Client Install
- Run the NitroAccelerator installer.
- Close and re-launch your client applications.

Upgrade
- Uninstall the previous version.
- Restart the machine.
- Install following the server/client instructions above.

NitroAccelerator Configuration Models

NitroAccelerator is designed to work seamlessly in the client-server model. Any application that is leveraging the TDS protocol using MDAC, SQL Native Client, Java thin or thick drivers or through any other implementation to connect to a SQL Server, such as SharePoint or SQL Management Studio, can use NitroAccelerator to compress and optimize the traffic.
Note that all clients and servers are not required to have NitroAccelerator installed, but only connections that have NitroAccelerator on both ends will see a performance improvement.

Proving NitroAccelerator

The NitroAccelerator Control Console, accessible via the system tray or through the Start menu, shows compression statistics for Nitro-enabled connections. The two graphs show the outbound and inbound traffic where the blue lines are the compressed traffic and the red lines are what the traffic would be if it were uncompressed.
While these statistics are helpful in determining that NitroAccelerator is installed and running properly, you may want to track other performance measurements to see the full benefit of NitroAccelerator in your environment.

Troubleshooting

If you are not seeing compression statistics in the NitroAccelerator Control Console, please ensure the following:
- NitroAccelerator was installed under an administrator account, following the instructions at the beginning of this document.
- If you had a prior version of NitroAccelerator installed, that you uninstalled that version and rebooted the system.
- All client applications that send traffic to SQL Server have been re-launched. Please note that during testing, any time NitroAccelerator has been started or stopped (via the NitroAccelerator Control Console or by starting/stopping the NitroAccelerator Watch service), your client applications must be closed and then re-launched.
- You are connecting through the TCP/IP protocol. This is required in order to benefit from NitroAccelerator. If your system default is another protocol, you can create an alias that uses TCP/IP, and connect to the SQL Server using this alias.

NitroAccelerator also includes a diagnostic tool, which may be helpful in troubleshooting. This tool can be accessed via the help menu in the NitroAccelerator Control Console. Diagnostic output:
- Which SQL Servers have been detected by NitroAccelerator and the protocols that are enabled for each.
- Whether or not NitroAccelerator's client-side functionality is currently enabled on the system, which usually indicates whether the NitroAccelerator Watch service is started or stopped.
- A list of client applications and whether they are enabled to use NitroAccelerator.
- Whether a given application is using Multiple Active Result Sets (MARS) to communicate with SQL Server. In this case the performance benefits of NitroAccelerator will be limited.

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