

PSConfig v3.89 for Win32

Program Description

The PSConfig application is a multi-purpose utility leveraging the DTI programming interface in Pervasive.SQL 2000 and above.

The first use for PSConfig is to extract information from the database about users, files, and so on, in a similar format to the Pervasive Monitor. This information can then easily be collected & sent to the screen or piped to a file for further review. It can also collect ALL of the information very quickly, whereas using the Monitor requires a lot of GUI work.

The second use is to display the configuration parameters of a Pervasive.SQL database. PSConfig can extract either the current or default parameters from a server and dump them to a specially formatted PSConfig file. It has the ability to display the settings from a PSConfig file, as well as re-load those settings back into a database server. This can be especially helpful when a reinstallation is necessary. PSConfig can also display and change the settings of single settings from the command line or from the web interface.

PSConfig can enable or disable MKDE tracing with a single command. This functionality is also provided in the sub-application, SETTRACE.

PSConfig also allows the user to kill off user connections in the SRDE and the MKDE, by address, user name, or with access to (or locks on) a file.

Additionally, PSConfig can access any available database server for this information, and can even provide information in an HTML format for use as a CGI application.

Platform and Package

Win32 Console; Btrieve Utilities, Resources & Tools; GSLic

Pricing

\$250 Single-Computer License

\$800 LAN Site License

Downloadable Trial License is available.

Command Line Syntax and Help Screen

PSConfig Version 3.89: 01/09 (C)2024 Goldstar Software Inc.

Usage: PSCONFIG [/options]

These options access PSQL Monitor Information (can be combined).

Use /M to output Monitor Information. Add H(eader) for Date/Time Display, R(esources), C(ommunications Stats), F(iles) [EWTLD], U(sers) [EWTLIAD], S(QL Connections) [E], P(erfmon Stats from LOCAL machine only), B(trieve File Usage Statistics). Or, use * for ALL of the above.

Options: [E]xpanded, [W]ide Values, [T]otals, [L]ocks Only, [A]ll Details, [I]d. Optional D(rilldown) by providing connection ID (Users) or Pathname (Files)

Use /K option to kill all PSQL database connections.

Add M(KDE Connections) or S(QL Connections).

Add X or Y to exclude MKDE connections with open transactions or locks.

Add T<address> or I<address> to kill all from one TCP/IPX address.

(Leave <address> blank to kill all from all local IP addresses.)

Add L<filename> or F<filename> to kill all Locks/Users for one file.

Add P<pathname> to kill all users of files in the path (substring of path).

Add U<username> to kill all connections from the given username.

Add C to kill all connections from generic Client # connections.

Only ONE sub-option above requiring a <parameter> can be used at a time.

Use /E<exclude> switch to exclude (by user name, IP address, or DX).

Use /C options access PSQL Configuration Information.

Add C for Current configuration information.

Add P to include all Product Information (PSQLv9+ only).

Add # to include SettingID numbers.

Add I for Installed Defaults.

Add L to display installed License keys.

Add N(amed Databases) [E], O(DBC DSN List), V(ersion).

Examples and Sample Usage

```
Add D(rilldown) and a SettingID to view a single setting.
Add S(et) and a SettingID.NewValue to change a setting to a new value.
/Ofilename outputs to a PSConfig file 'filename'.
/Ifilename imports values from a PSConfig file 'filename'.
/Lfilename lists details from a PSConfig file 'filename'.
/T1 Enables MKDE Tracing, /T0 (default) disables it.
These options provide filesystem information.
/F<pathname> provides the amount of disk free space on the path.
These options can be used with any of the above.
/Sserver specifies a server to contact (Default=localhost).
/Uuser specifies a username to use (Default=none).
/Ppassword specifies a password to use (Default=none).
/H outputs results in HTML format, /A is interActive (for Web/CGI).
```

CONFIG: These commands deal with configuration settings on the server.

This command displays the configuration data to the screen for a given server:

```
PSCONFIG /C /Smyserver /Uadmin /Ppwd
```

This command exports the configuration data to a PSConfig file SERVER.DAT.

```
PSCONFIG /OSERVER.DAT
```

This command imports a PSConfig file into a database.

```
PSCONFIG /ISERVER.DAT
```

This command displays DSN and extended DBName data for all databases.

```
PSCONFIG /CNOE
```

This command displays all configuration data, including version, current configuration settings, named databases, and ODBC data sources.

```
PSCONFIG /CE
```

This command displays your installed license key strings:

```
PSCONFIG /CL
```

This command displays (or drills down to) the configuration data for a single setting, in this case, 163 (Gateway Durability). This command line option is for advanced users and developers only.

```
PSCONFIG /CD163
```

This command changes the setting value for SettingID 163 (Gateway Durability) to OFF. Provide a 0 or 1 for all Boolean values, an ASCII string for string fields, or the native DTI values for each selection item. For multi-select items, use a comma-separated list.

```
PSCONFIG /CS163.0
```

KILL: These commands kill database sessions from the server.

This command kills *all* MKDE connections from the server.

```
PSCONFIG /KM
```

The same thing can be done for the SQL engine. This command kills *all* SRDE connections from the server.

```
PSCONFIG /KS
```

Exclusions are also supported. This command kills all MKDE connections from all users EXCEPT "Bill".

```
PSCONFIG /KMEBill
```

Using the combined form, you cannot leverage any other options. Exclusions can also be indicated on a separate switch, as in this example:

```
PSCONFIG /KM /EBill
```

Exclusions can also be indicated by IP address (excluding all connections from that IP address), using the keyword LOCAL (excluding connections from the local server itself), or using the keyword "DX" which excludes DataExchange connections, namely those starting with "Client #" or "SRDE:PD":

```
PSCONFIG /KM /E192.168.1.10
PSCONFIG /KM /ELOCAL
PSCONFIG /KM /EDX
```

If you have the possibility of some critical user connections that you do NOT want to kill, then you can use flags to exclude users with transactions (X) and users with record locks (Y). This command kills all MKDE connections from all users EXCEPT those that have transactions open.

```
PSCONFIG /KMX
```

These exclusions are valid only on killing MKDE connections, and then only when killing ALL connections or connections by User (/KU, below).

If you want to clear a single address only, we can handle that. This command kills all MKDE and SRDE user connections from TCP/IP Address 10.0.0.5.

```
PSCONFIG /KT10.0.0.5
```

If you want to kill all connections from your own address, there is a shortcut for this by leaving the address field blank. The following command kills only the MKDE (not the SRDE) user connections from all TCP/IP addresses currently registered to the local computer. (This can be used to kill off connections after a program crashes.) Care should be exercised when used with Citrix or Terminal Services systems, as this terminates connections from all user sessions.

```
PSCONFIG /KMT
```

You can specify a single user to kill, too. This command kills all MKDE and SRDE connections from user named "Bill".

```
PSCONFIG /KUBill
```

This option ALSO supports limited wildcard-based killing – if you specify an asterisk at the end of the user name, the command kills all MKDE and SRDE connections from user matching the substring provided. In this example, users "Fred", "Freida", and "Franco" will all be marked for death.

```
PSCONFIG /KUFr*
```

If you have a generic "Client #" user that is stuck in the MKDE, use the C option. (This kills ALL "Client #" connections, which may have an adverse impact on AuditMaster, DataExchange, or other such utilities.)

```
PSCONFIG /KC
```

If you are trying to clear locks on a file, we can handle that, too. This command kills all MKDE connections from users with locks held on the specified file.

```
PSCONFIG /KLC:\PVSW\DEMODATA\PERSON.MKD
```

Sometimes, you want to get all users out of a file for maintenance. This command kills all MKDE connections from users with the specified file open.

```
PSCONFIG /KFC:\PVSW\DEMODATA\PERSON.MKD
```

You can also do this by directory structure. This command kills all MKDE connections that have ANY files in the C:\PVSW\DEMODATA folder open. (Note: This will also kill SQL engine connections if the DDF's are open, so be careful.)

```
PSCONFIG /KPC:\PVSW\DEMODATA\
```

Note that if there are spaces in the path, then the string should be included in double quotes. If you need spaces in the path AND the last character is a backslash, then it should be *doubled* (as shown below) because the backslash is also an escape character in the command prompt:

```
PSCONFIG /KP"C:\PATH WITH SPACES\DATA\\"
```

Important Note: The M or S options can be used in conjunction with other /K options. Specifying /KMT with an address will kill only the MKDE connections from that address. Using /KST will kill only the SRDE connections. Leaving both options off is a shortcut for killing all connections.

MONITOR: These commands can be used to Monitor the Server.

To quickly list the users in the system with *all* of their connection data in expanded mode:

```
PSCONFIG /MUE
```

The default view will truncate large numbers by appending K, M, or G to each value. If you need to see the raw numbers (for seeing exact value of larger numbers), add the W switch as well and all numbers will be displayed in wide format:

```
PSCONFIG /MUEW
```

To see file handle detail for each connection, add the A option:

```
PSCONFIG /MUEA
```

To list the users in the system holding record locks:

```
PSCONFIG /MUL
```

To list the files (in extended view) with record locks open by users:

```
PSCONFIG /MFLE
```

This command displays open file information for all files.

```
PSCONFIG /MFET
```

This command displays the Performance Monitor counters.

```
PSCONFIG /MP
```

This command displays the Btrieve File Usage Statistics for files currently being tracked.

```
PSCONFIG /MB
```

If you are sending the output from the Monitor function repeatedly to a text file, include the H option on the command line to get a header before each run with the proper date and time stored in the output file:

```
=====
Pervasive Database Report for DEATHSTAR
Created at 2006-09-16 19:49:31 by PSConfig from Goldstar Software Inc.
=====
```

To display ALL of the available Monitor information, with totals and PerfMon counters from the server, use either of these two commands.

```
PSCONFIG /MHRCFUSPEWTB
PSCONFIG /M*
```

This version of the command line displays a list of users that have a single file open, in this case "C:\PVS\DEMOW\PERSON.MKD". However, the addition of the "L" flag means that ONLY users with locks on this particular file will be shown in the output display.

```
PSCONFIG /MFLETDC:\PVS\DEMOW\PERSON.MKD
```

The CGI scripting capabilities have an automated menuing system, complete with login information. First, ensure that the database client or engine is installed on the web server. Second, copy the application and any support files to a directory visible to IIS (e.g. "scripts") and verify that it can be executed in IISAdmin. Finally, access the program with the /a switch in the URL, as shown below:

```
http://servername/scripts/psconfig.exe?/a
```

Other Information

PSConfig for Win32 is provided as a registered program as part of the Btrieve Utilities, Resources & Tools toolkit or as a separate tool. Goldstar Software can provide customized changes or other options to this program to registered users upon request. For more information, contact Goldstar Software Inc. at www.goldstarsoftware.com.

Version History

Version 1.0: First documented version

Version 1.7: Added numerous features.

Version 1.8: Fixed several minor bugs.

Version 2.00: Completed new CGI capabilities.

Version 2.10: Added ability to query drive free space (/F).

Version 2.20: Added ability to view Users with locks only, and to drill down into Files by showing users with locks only. Also fixed bug in which MKDE Tracing was only working on the WSE.

Version 2.21: Fixed bug in killing users when no users were signed on.

Version 2.23: Fixed another bug in killing users logic to work around problems in the DTI API.

Version 2.24: Added capability to display Files with Locks (in addition to just users with locks).

Version 2.25: Fixed minor output issues; Added I switch to user display to allow easier dump of specific connections from command line.

Version 2.26: Fixed formatting issue on Cache Ratio field.

Version 2.30: Major Update! Moved Version & DBNames from Monitor to Config option list. (Warning: This change may cause problems with existing scripts.) Added Header option for the Monitor for easier use with repeating batch files. Improved display of File Space option. Added second refresh button for Users, Files, and SQL screens on Web interface. Added Complete Server Configuration and Complete Server Status options on Web interface that dumps all statistics on one screen. Added ODBC DSN display to the Config listing. Added A option to display ALL handle data for each user in the report without needing to drill down.

Version 2.31: Addressed some issues with the Debug flag not working correctly.

Version 2.32: Added feature to kill users based on a path.

Version 3.0: Add GSLicense functionality.

Version 3.1: Added ability to set configuration values from both the command line and the web interfaces.

Version 3.2: Added display of Configuration SettingID values with /C#.

Version 3.3: Added capability to display the ProductsInfo dump. Note: This feature requires PSQLv9 or higher to work and requires a specially-compiled version of PSConfig.

Version 3.31: Improved error reporting via %ERRORLEVEL% variable.

Version 3.32: Fixed bug in SQL session kill with no users in the database.

Version 3.4: Eliminated dependency on GSLIC.DLL file.

Version 3.41: Added capability for /KT to kill connections from all local IP addresses, without needing to first determine your IP address.

Version 3.50: Added the ability to exclude addresses from the Kill function.

Version 3.51: Added exclusions on transactions and locks from the /KM option.

Version 3.60: Updated code for PSQL Vx/v11 SP1. Now shows Physical File Size, Data In Use, Sessions In Use, and Server Uptime.

Version 3.70: Added facility to extract the PerfMon Counters; added ability to dynamically load any available DTI module and work accordingly.

Version 3.71: Updated for the changes in PerfMon counters for v11 SP3.

Version 3.72: Added additional file details available in PSQL v11.

Version 3.73: Reversed display of bytes in ClientID/Task Number.

Version 3.74: Added the ability to kill off generic Client # connections.

Version 3.75: Added the total file size display when file sizes are available on /MFET option.

Version 3.76: Added the Wide output format option for Session data.

Version 3.77: Increased size of narrow Client Address display by 3 characters.

Version 3.78: Added /M* option as a shortcut for all details.

Version 3.79: Updated licensing code.

Version 3.80: Increased length of Network Address field in Wide Output.

Version 3.81: Fixed computational issue with counters.

Version 3.82: Fixed display error on MaxSessionCount for PSQL Vx.

Version 3.83: Updated PerfMon Counter Set for PSQL v13 Counters.

Version 3.84: Added decoding of OpenMode types 238 and 240.

Version 3.85: Added new PerfMon Counters for v14.

Version 3.86: Added support for wildcard killing of users.

Version 3.87: Added support for viewing the installed licenses (/CL), as well as the Btrieve File Statistics for those files being tracked (/MB).

Version 3.88: Added ability to exclude DX connections in the KILL option.

Version 3.89: Fixed bug with displaying aFLIndex values.

Known Problems

Runs from Windows systems only (but can remotely access NetWare/Linux).

Due to constantly-changing connections, Web drill-down for Users is NOT always accurate! It MAY drill into the wrong user, due to the constantly-changing data in the engine. We will try to find a solution to this (possibly using ClientID) when possible.

The Trial License cannot be used from a web server, due to the dialog box posted during the trial period.