



DB Health Assistant

Another practical solution from “Practical Compliance Solutions, Corp.”.

Installation and Configuration Guide for DB Health Assistant.

Tom Romeo
1/10/2016

DB Health Assistant Installation Guide

The information in this documentation is not contractual in nature. It is subject to modification without notice. The software described in this manual is supplied under a user license. Its use, duplication, or reproduction on any media whatsoever, except as provided for under the terms of the license, is not authorized. No part of the manual may be copied, reproduced or transmitted by any means whatsoever (unless it is for the purchaser's personal use) without written permission of **Practical Compliance Solutions Corp.**

Microsoft®, Windows®, Windows NT®, Windows XP, Windows 2000, Windows 2003, Windows 2008, Windows Vista, Windows 7, Windows 8, Windows 2012 are registered trademarks of **Microsoft Corporation**.

All other trademarks are the property of their respective owners.



DB Health Assistant Installation Guide

Table of Contents

1. INTRODUCTION	4
1.1. SYSTEM REQUIREMENTS	4
1.2. INSTALLING DB HEALTH ASSISTANT	4
1.3. CONFIGURING DB HEALTH ASSISTANT	11
1.3.1. <i>Registering the Product</i>	11
1.3.2. <i>Configuring alerts, reporting, and level of use</i>	13
1.3.3. <i>Setting up the databases to monitor</i>	15
1.4. RESTORING DATABASES	17
1.5. PURGING OLD DATA	18
1.6. REMOVING DB HEALTH ASSISTANT	19



DB Health Assistant Installation Guide

1. Introduction

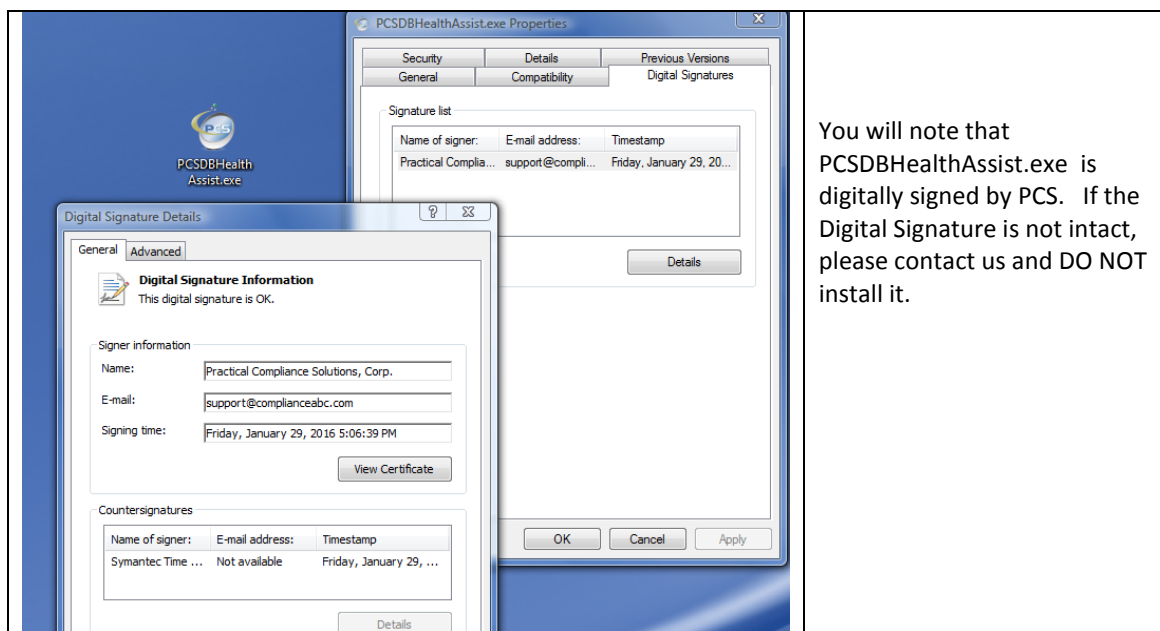
"DB Health Assistant" is a service that helps to maintain optimal performance of your databases. It can be configured to send alerts if potential issues are discovered.

1.1. System Requirements

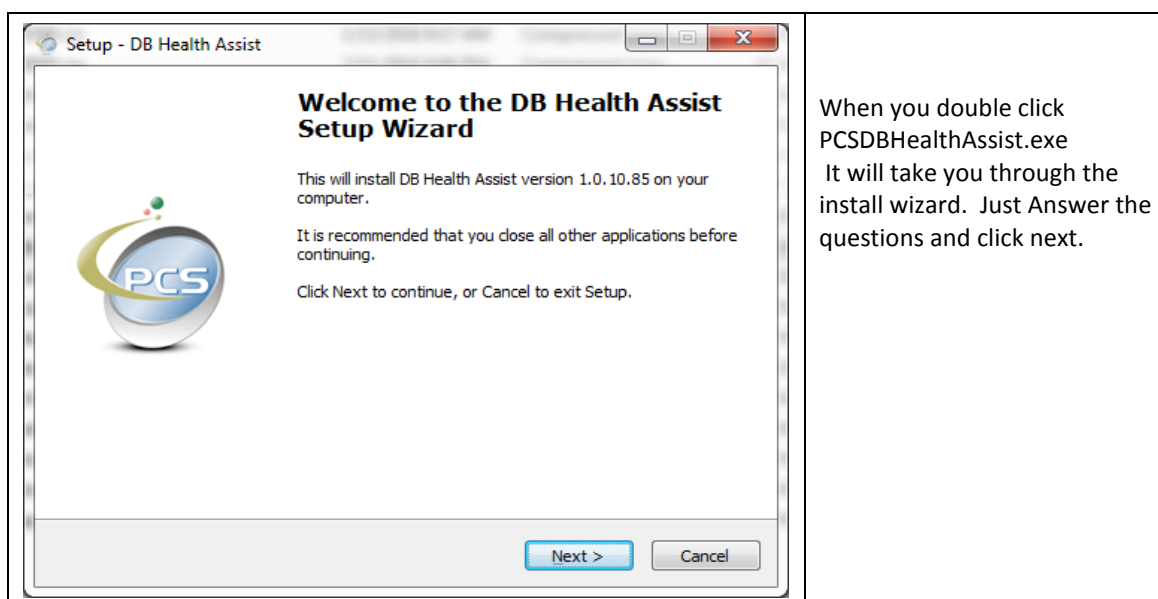
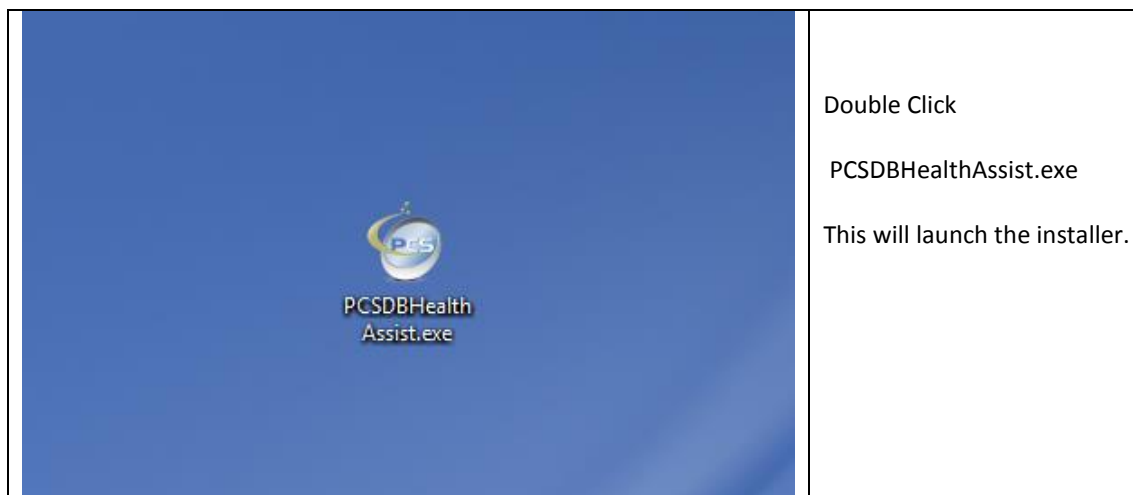
- 1) Internet Access
- 2) Windows XP, 7, 8, Windows Server 2003, 2008, 2012
- 3) Dot Net Framework 3.5

1.2. Installing DB Health Assistant

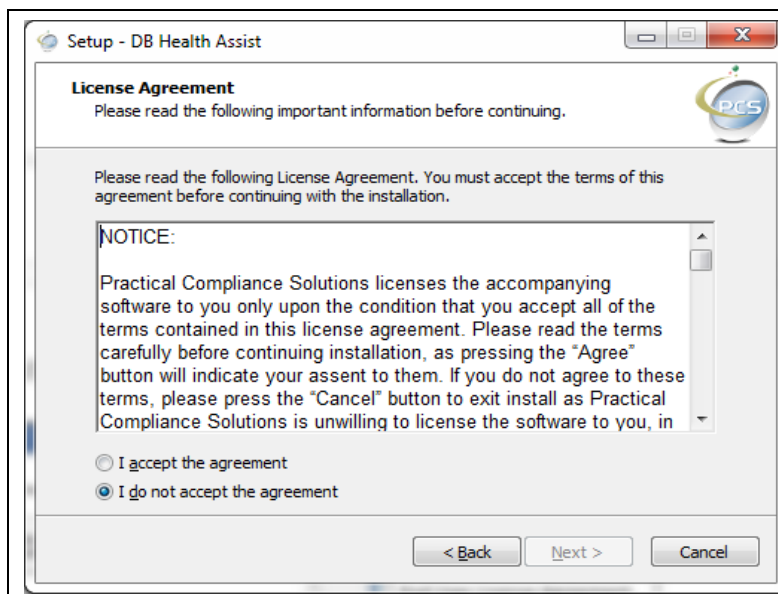
Download DB Health Assist from our website at www.complianceabc.com



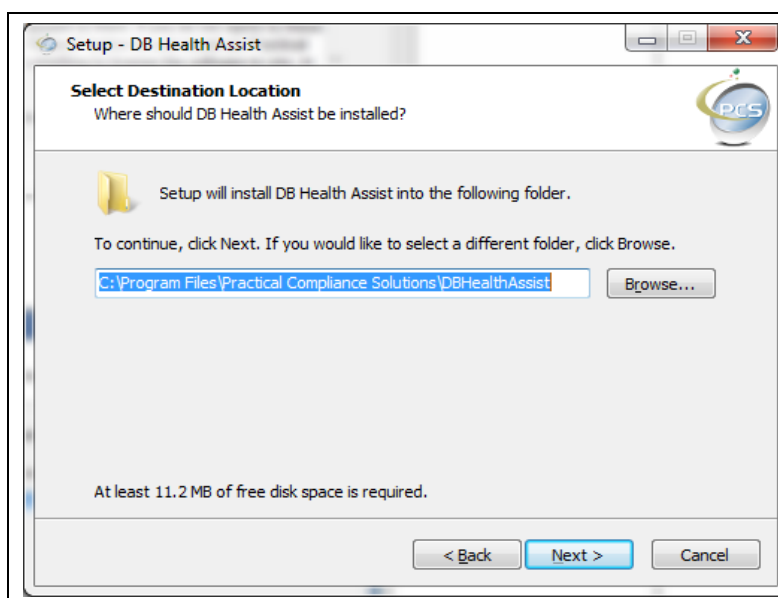
DB Health Assistant Installation Guide



DB Health Assistant Installation Guide



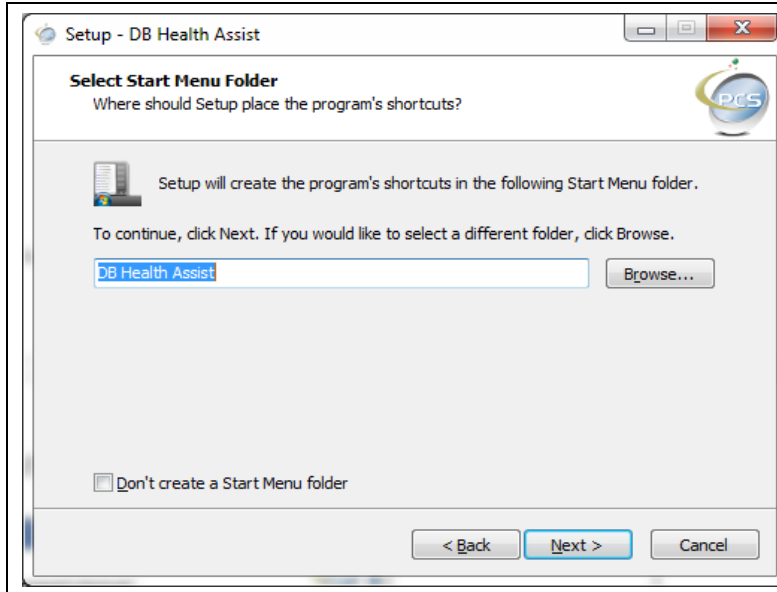
You will need to accept the End User License Agreement.



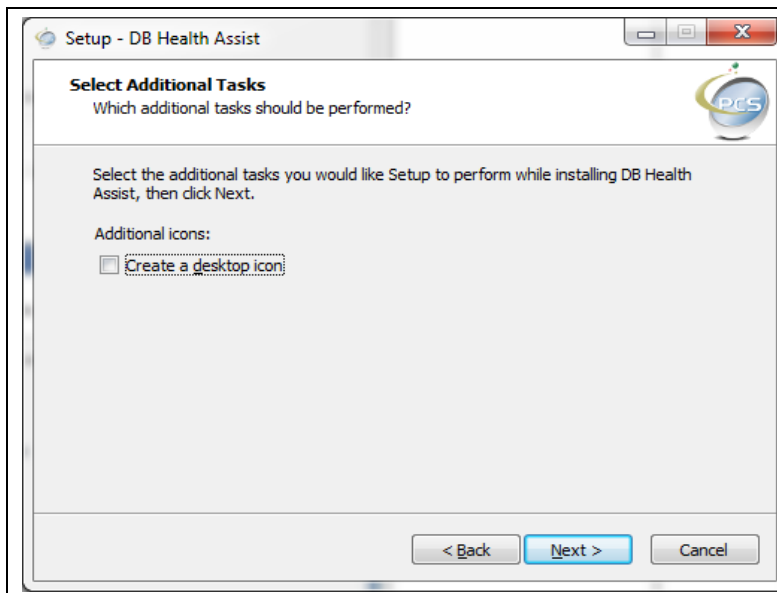
You may choose to change the installation path if you like.



DB Health Assistant Installation Guide



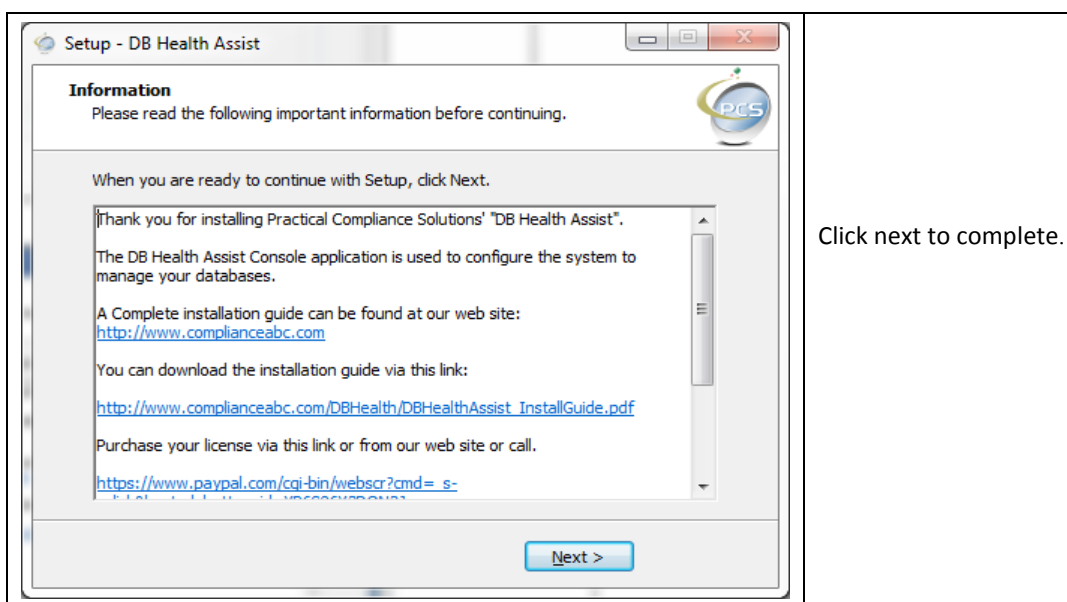
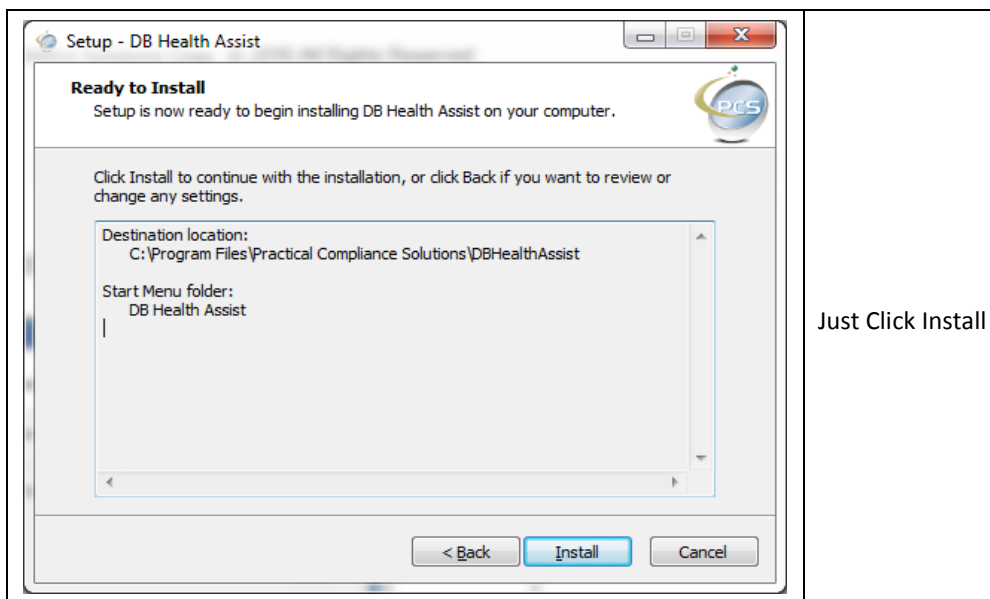
You can change the start menu location or select to not create an entry in the start menu.



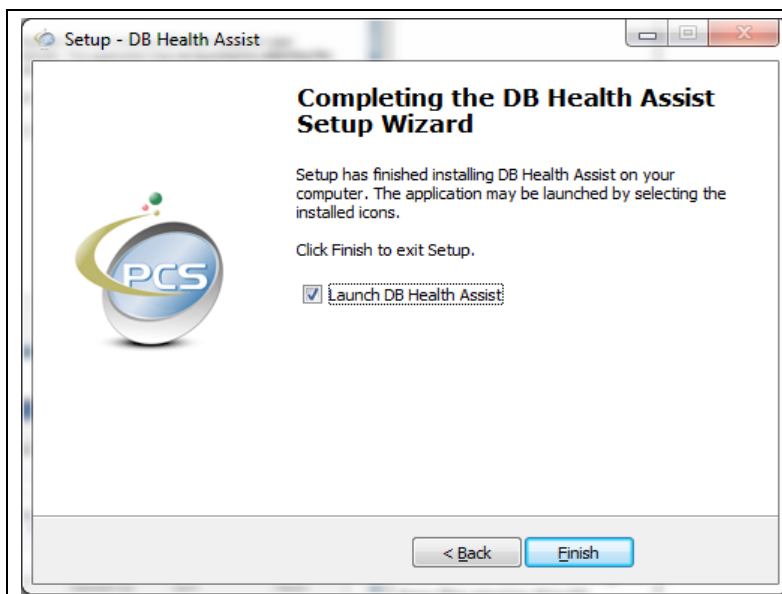
Check the boxes according to whether you want ICONs created or not.



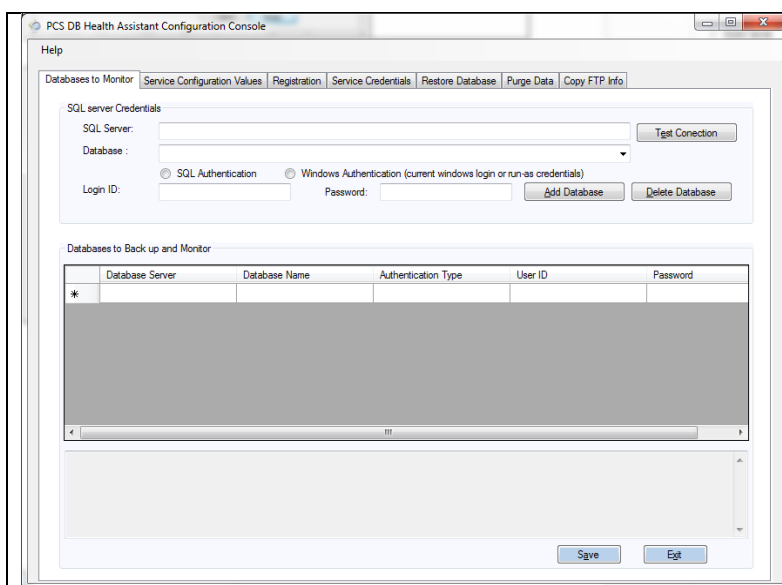
DB Health Assistant Installation Guide



DB Health Assistant Installation Guide



DB Health Assistant can be automatically launched from the installation from the last screen.



DB Health assist console consists of four tabs.

The first tab is to enter database credentials

The second tab is to configure how the service should behave and to set up alerts

The third tab is to register and license the product

The fourth tab is to set and test the runtime credentials of the service.



DB Health Assistant Installation Guide

The screenshot shows the 'Registration' tab of the 'PCS DB Health Assistant Configuration Console'. The window has a title bar with 'PCS DB Health Assistant Configuration Console' and standard Windows window controls. Below the title bar is a menu bar with 'Help', 'Databases to Monitor', 'Service Configuration Values', 'Registration', 'Service Credentials', 'Restore Database', 'Purge Data', and 'Copy FTP Info'. The main content area is titled 'Practical Compliance Solutions' and 'DB Health Assistant Registration Settings'. It contains four text input fields: 'Company:', 'Contact Name:', 'Contact Email:', and 'Contact Phone:'. Below these fields are four buttons: 'Get Temporary License', 'Get License', 'Save Registration Info', and 'Exit'.

Start here to license the product.

Enter your company name or individual name if not a company.

Enter your full name, email address and phone.

Click save and then click get license if you have already paid, or get temporary license if you are just evaluating the product.

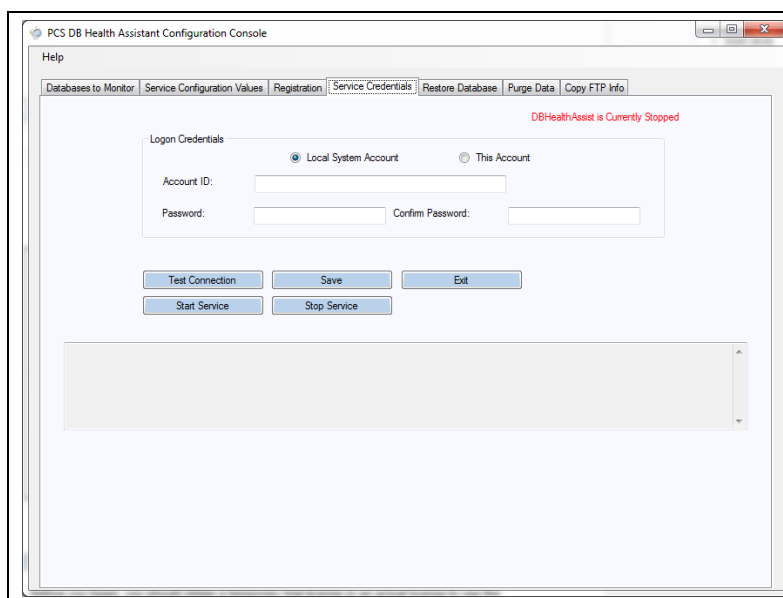
The screenshot shows the 'Service Configuration Values' tab of the 'PCS DB Health Assistant Configuration Console'. The window has a title bar with 'PCS DB Health Assistant Configuration Console' and standard Windows window controls. Below the title bar is a menu bar with 'Help', 'Databases to Monitor', 'Service Configuration Values', 'Registration', 'Service Credentials', 'Restore Database', 'Purge Data', and 'Copy FTP Info'. The main content area is titled 'Practical Compliance Solutions' and 'DB Health Assistant Configuration Settings'. It contains several configuration options: 'SMTP Server:' (smtp.live.com), 'SMTP Port:' (587), 'SMTP User ID:' (masked with dots), 'SMTP Password:' (masked with dots), 'From Email:' (myHotmailAccount@hotmail.com), and 'To Email:' (mybusinessemail@myCo.com). There are two 'Show' buttons next to the SMTP User ID and Password fields. Below these are several checkboxes: 'Use SSL' (checked), 'Shrink Transaction Log' (checked), 'Reindex Tables' (checked), 'Perform Backup' (checked), 'Perform DBCC Check DB' (checked), 'Copy' (checked), 'FTP' (unchecked), 'Copy to Azure Blob' (unchecked), 'Perform System Info on SQL Server' (checked), and 'Check Missing Indexes' (checked). There are also fields for 'Log Path:' (Logs), 'Log Level:' (Debug), 'Run Purge Job every:' (1 Minutes), 'Log Retention:' (30 Days), 'Database Backup Retention:' (8 Days), 'Max Size DB Transaction Log:' (32 MB), 'Start Time:' (01:30), and 'Notification Level:' (Errors and Failures). At the bottom are three buttons: 'Test', 'Save', and 'Exit'.

Configure the service. Enter SMTP credentials and information to receive repots and alerts.

More detail about this screen is provided on a later page.



DB Health Assistant Installation Guide



Configure the service via this tab.

DB Health Assistant is a windows service that runs even if no one is logged into the PC or Server. The account must have access to the database for this to work.

More detail about this screen is provided on a later page.

1.3. Configuring DB Health Assistant

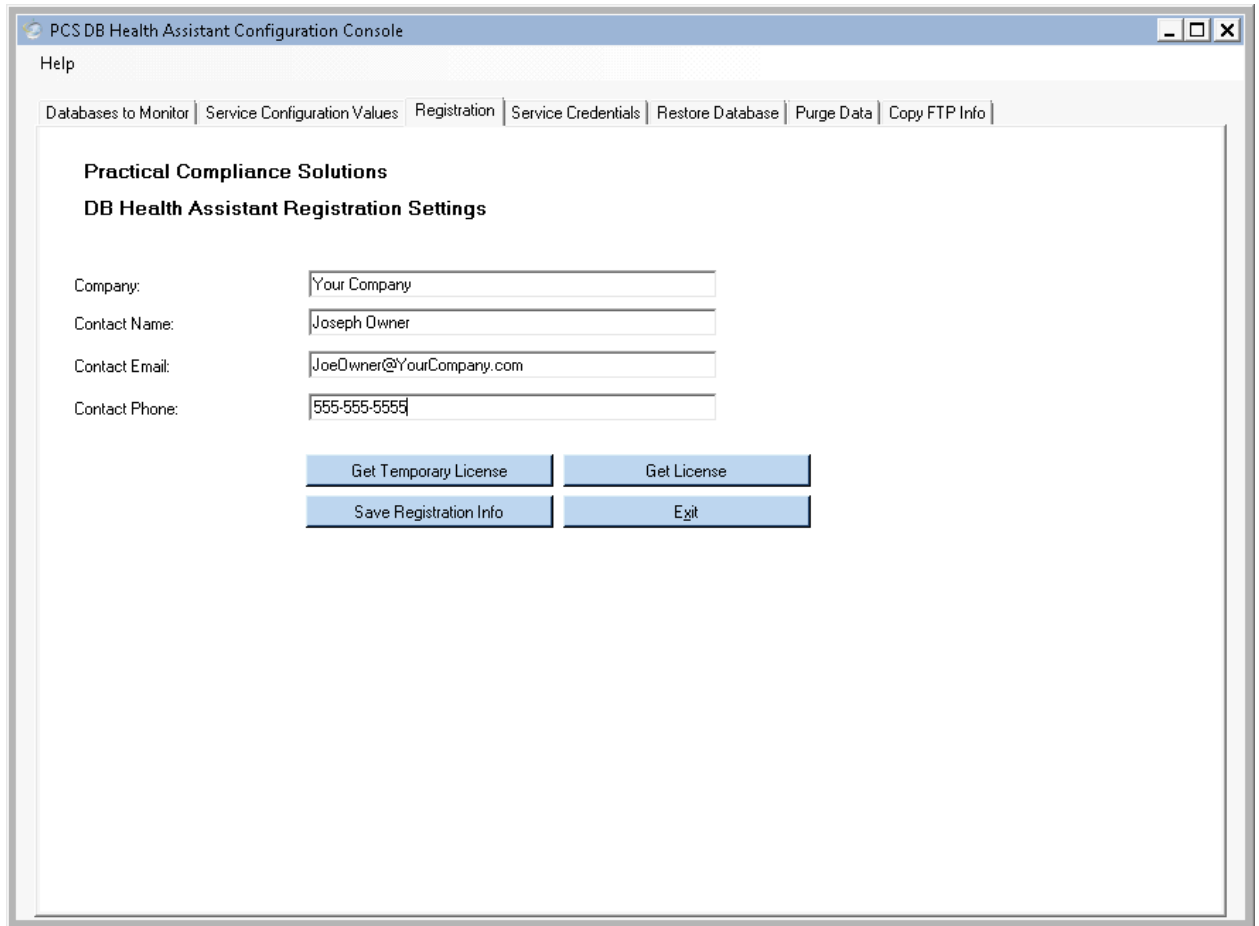
Before you begin, you should obtain a temporary trial license or an actual license to use the product in production.

Just fill in the information on Tab three and click the save registration info button.

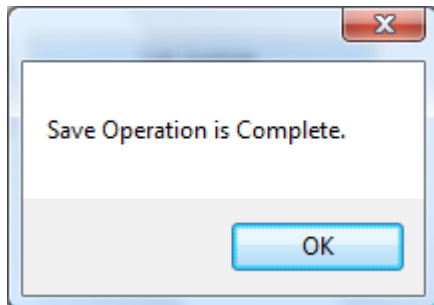
1.3.1. Registering the Product



DB Health Assistant Installation Guide



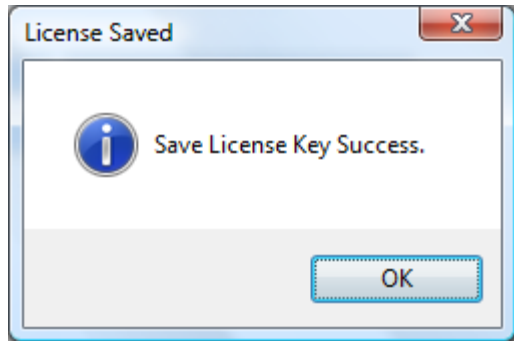
The screenshot shows the 'PCS DB Health Assistant Configuration Console' window. The 'Registration' tab is selected in the top navigation bar. Below the navigation bar, the title 'Practical Compliance Solutions' and 'DB Health Assistant Registration Settings' are displayed. The form contains four input fields: 'Company' (pre-filled with 'Your Company'), 'Contact Name' (pre-filled with 'Joseph Owner'), 'Contact Email' (pre-filled with 'JoeOwner@YourCompany.com'), and 'Contact Phone' (pre-filled with '555-555-5555'). At the bottom of the form, there are four buttons: 'Get Temporary License', 'Get License', 'Save Registration Info', and 'Exit'.



Click the Get Temporary License button or if you have already purchased a license, click the Get License button.



DB Health Assistant Installation Guide

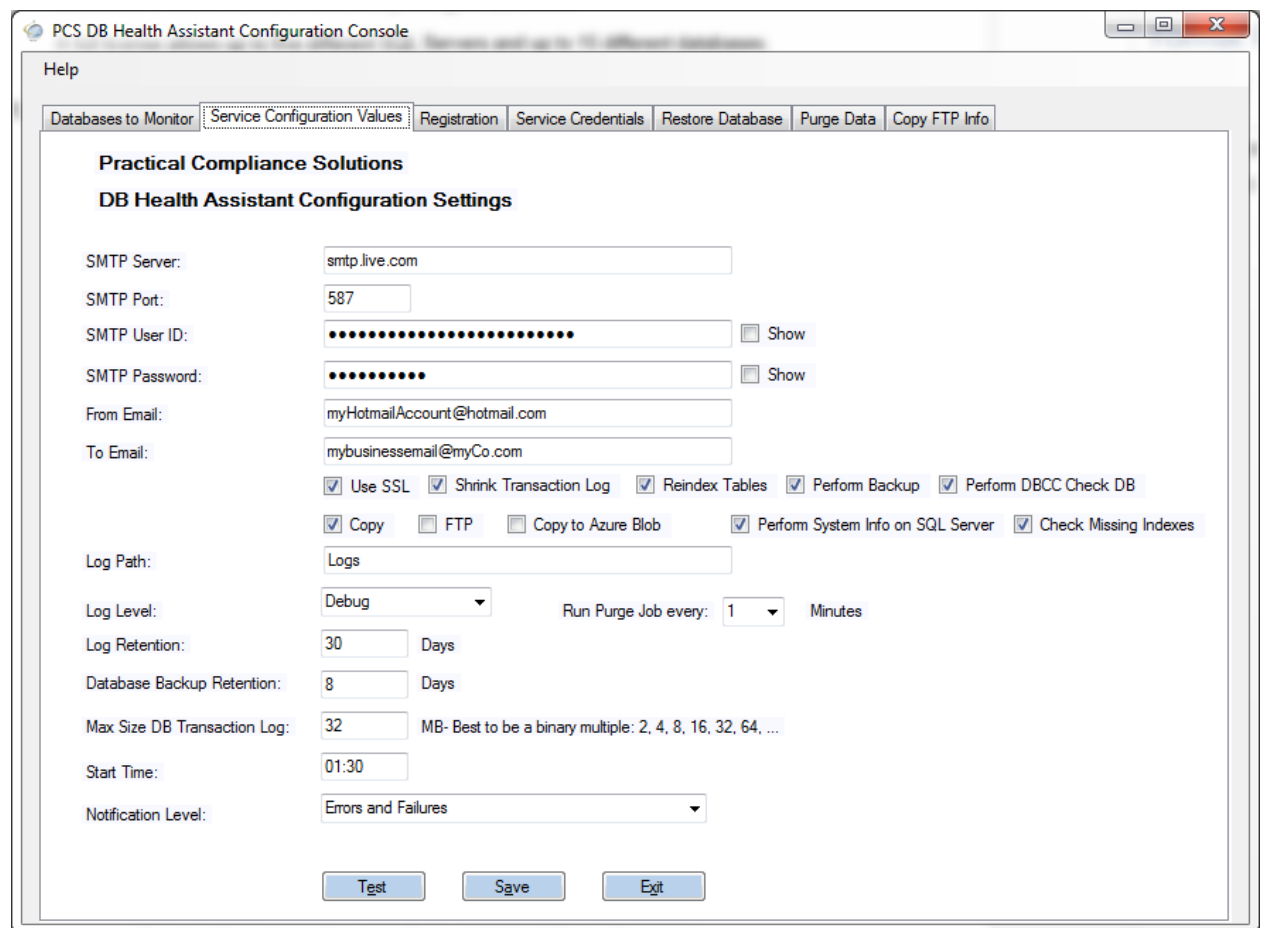


The Service will not perform any tasks without some license. A temporary license will expire in two week giving you ample time to try the product. A temporary license allows up to three databases to be serviced and allows only a single SQL Server.

A full license allows up to five different SQL Servers and up to 15 different databases.

1.3.2. Configuring alerts, reporting, and level of use

Tab two is used to configure how the product behaves.

The image shows the "PCS DB Health Assistant Configuration Console" window. It has a title bar with the application name and standard Windows window controls. Below the title bar is a "Help" button and a tabbed interface with tabs: "Databases to Monitor", "Service Configuration Values" (which is selected), "Registration", "Service Credentials", "Restore Database", "Purge Data", and "Copy FTP Info". The main content area is titled "Practical Compliance Solutions" and "DB Health Assistant Configuration Settings". It contains various configuration fields: "SMTP Server" (smtp.live.com), "SMTP Port" (587), "SMTP User ID" (masked with dots), "SMTP Password" (masked with dots), "From Email" (myHotmailAccount@hotmail.com), and "To Email" (mybusinessemail@myCo.com). There are checkboxes for "Use SSL", "Shrink Transaction Log", "Reindex Tables", "Perform Backup", "Perform DBCC Check DB", "Copy", "FTP", "Copy to Azure Blob", "Perform System Info on SQL Server", and "Check Missing Indexes". Below these are fields for "Log Path" (Logs), "Log Level" (Debug), "Log Retention" (30 Days), "Database Backup Retention" (8 Days), "Max Size DB Transaction Log" (32 MB), "Start Time" (01:30), and "Notification Level" (Errors and Failures). At the bottom, there are "Test", "Save", and "Exit" buttons.

DB Health Assistant Installation Guide

SMTP Server is the mail server used to drive all emailed alerts.

If you don't have an actual domain with SMTP service, you can use your Hotmail, Gmail, Yahoo, Comcast, FIOS, Optimum Online, or other SMTP service. As of this writing

- 1) Hotmail = smtp.live.com, port 587, SSL = True
- 2) Gmail = smtp.gmail.com, port 587, SSL = True
- 3) Yahoo = smtp.mail.yahoo.com, port 587, SSL = True
- 4) FIOS = outgoing.verizon.net, ports and SSL may vary

The SMTP User ID is your email address that you use to sign on to your email.

The SMTP Password is your email password. You can use the check box to show them just to make sure you've typed them correctly.

Enter your email address in the from email text box.

Enter the email address of the recipient of the reports in the "TO" email text box.

The Log path can be any valid path on your computer. Leaving is as "Logs" places the logs in this directory. "C:\Program Files\Practical Compliance Solutions\DBHealthAssist\Logs"

The check boxes for "Shrink Transaction Log" and "Reindex Tables" indicate whether these actions should take place.

If the "Shrink Transaction Log" check box is checked, then the DB Health Assist service will attempt to shrink the database transaction log to the size specified in the "Max Size of Transaction Log" text box. This occurs after the backup and DB health operations complete and if the service account has sysadmin privileges on the database server.

If the reindex tables check box is checked and the service account is at least dbowner, then fragmented indexes are targeted. If the fragmentation is less than 30% a reorganize is invoked. If the fragmentation is greater than 30% then a reindex rebuild is invoked.

If the reindex tables check box is not checked then the reindexing opportunities are targeted but not acted upon that is no reindexing occurs.

Log retention indicates how many log files are kept.

Database backup retention indicates how many back ups are kept.

Start Time indicates the commencement time of the backup activity.

Run Purge job every "X" minutes is the frequency at which the purge jobs will run. You define the purge jobs at the "Purge Data Tab".

The "Copy", "FTP", and "Copy to Azure Blob" check boxes indicate if those actions should take place or not. If any of the check boxes are checked, then go to the "Copy FTP Info" tab to fill out the destinations.

If copying to Azure Blob Storage, AZCOPY is used. You must install DBHealthassist on the SQL Server and AZCopy must also be installed on the SQL Server.



DB Health Assistant Installation Guide

Notification level has five levels.

1.3.3. Setting up the databases to monitor

Tab one is where the databases to monitor are entered.

Enter the SQL Server name. The FQDN, {Fully Qualified Domain Name} is acceptable as is the server name, server name \ instance or server name [comma] port.

Enter the database name.

Select SQL Authentication or Windows Authentication.

If SQL Authentication is selected then the Login ID and Password are also required.

The Test Connection button is used to verify the ability to connect to the database.

The Add Database button adds the database to the list of databases to monitor.

The Remove Database removes a database from the list of databases to monitor

The Save button saves the list.



DB Health Assistant Installation Guide

PCS DB Health Assistant Configuration Console

Help

Databases to Monitor | Service Configuration Values | Registration | Service Credentials | Restore Database | Purge Data | Copy FTP Info

SQL server Credentials

SQL Server: PCSVServer013b Test Connection

Database: PCS_AssetTrack

☐ SQL Authentication ☒ Windows Authentication (current windows login or run-as credentials)

Login ID: Password: Add Database Delete Database

Databases to Back up and Monitor

Database Server	Database Name	Authentication Type	User ID	Password
*				

Is Sysadmin - Yes
Full Version - Microsoft SQL Server 2008 (RTM) - 10.0.1600.22 (Intel X86) Jul 9 2008 14:43:34 Copyright (c) 1988-2008 Microsoft Corporation Standard Edition on Windows NT 5.2 <X86> (Build 3790: Service Pack 2)
Database PCS_AssetTrack - exists
recovery model for - PCS_AssetTrack - SIMPLE

Save Exit

The trial license allows up to three databases and one SQL Server.

The Full License allows up to 15 databases and three SQL Servers by default, but if you need more databases in your license, please call us.

If using SQL authentication, the service account must have access to all SQL Servers and Databases on this list.

If you have installed the “DB Health Assist” software on the server the runs SQL Server or SQL Express, then it is likely that the “LocalSystem” account has access. However, if the “DB Health Assist” software is installed on a different PC or Server, then use SQL Authentication, or if you need to use Windows authentication, set up a Windows Service account that has proper access to all SQL Servers and databases intended for this application.

Use the service credentials page if you are using Windows Authentication



DB Health Assistant Installation Guide

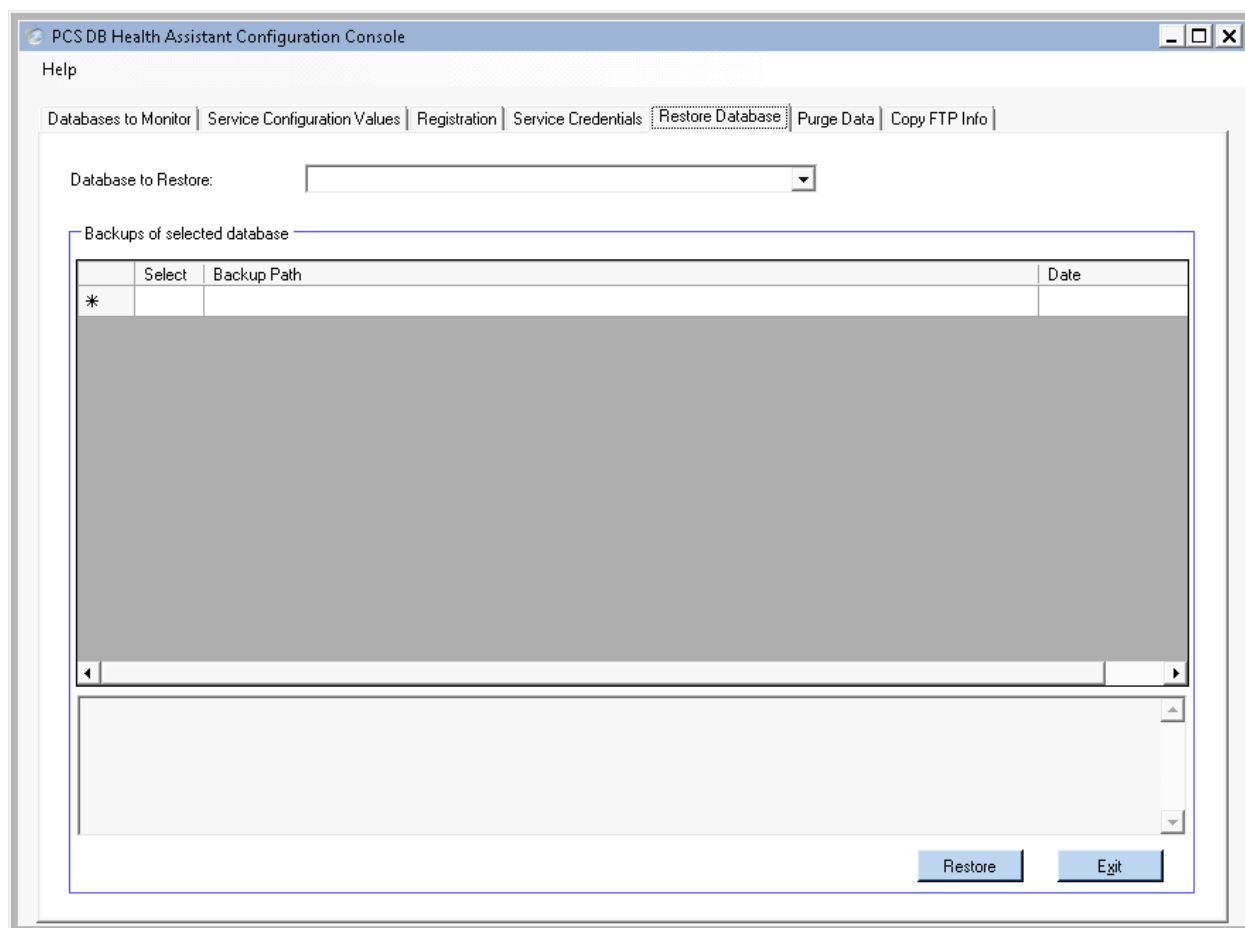
The screenshot shows the 'PCS DB Health Assistant Configuration Console' window. The 'Service Credentials' tab is selected in the top navigation bar. A red status message at the top right reads 'DBHealthAssist is Currently Stopped'. The 'Logon Credentials' section contains two radio buttons: 'Local System Account' (selected) and 'This Account'. Below these are input fields for 'Account ID:', 'Password:', and 'Confirm Password:'. At the bottom, there are five buttons: 'Test Connection', 'Save', 'Exit', 'Start Service', and 'Stop Service'. A large empty text area is at the bottom of the window.

1.4. Restoring Databases

The Restore Database Tab provides an easy way to select recently backed up databases and restore them.



DB Health Assistant Installation Guide



1.5. Purging Old Data

The Purge Data Tab offers an easy way to set up automated SQL scripts to remove old, obsolete, or unwanted data. There are two modes for this operation. You can use the wizard or you can manually create your own delete scripts and enter them into the system.

To use the wizard, click the new purge job button, select a database and table and then enter your criteria as pictured below.

Select the number of rows to delete or accept the default of 1000. This means that each time the purge job runs it will delete up to that many rows. If zero rows are removed, the purge job won't run again until the next day.

Click Save Job and the SQL to perform that purge will appear below. Click the Test SQL button to see if it worked.



DB Health Assistant Installation Guide

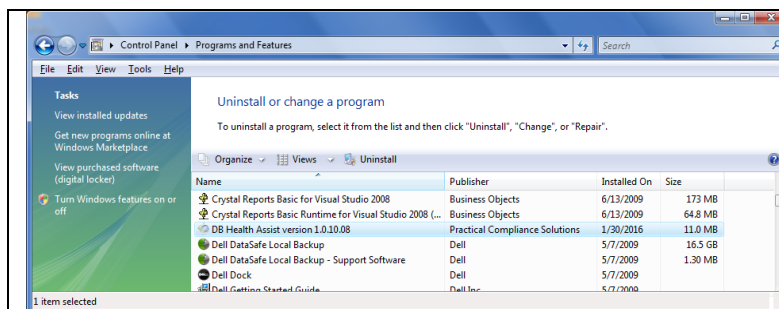
The screenshot shows the 'PCS DB Health Assistant Configuration Console' window. The 'Purge Criteria' tab is active, displaying a table of columns to be purged from the 'tblAssetTransactions' table. The table has columns for Column Name, Column Type, Compare Operator, Compare Value, Compare Units, and Order. The 'TransactionDate' row is selected, showing a 'Less or Equal' operator with a value of 5 and units of 'Years'. Below the table, a custom SQL query is entered: 'set nocount off; Delete top (1000) From tblAssetTransactions Where TransactionDate <= DATEADD(year,-5, GETDATE())'. Buttons for 'New Purge Job', 'Edit Existing Purge Job', 'Save Job', 'Delete Job', 'Test SQL', and 'Exit' are visible.

Column Name	Column Type	Compare Operator	Compare Value	Compare Units	Order
AssetID	nvarchar				
TransactionType	nvarchar				
TransactionDate	datetimeoffset	Less or Equal	5	Years	1
TransactionID	nvarchar				
TransactionUser	nvarchar				
FromLocationID	nvarchar				
ToLocationID	nvarchar				
FromUser	nvarchar				
ToUser	nvarchar				
TransStatus	nchar				
Mod_User	nvarchar				
Mod_Time	datetimeoffset				

set nocount off
Delete top (1000) From tblAssetTransactions Where TransactionDate <= DATEADD(year,-5, GETDATE())

If you can't get it to run at all, just call us or send an email.

1.6. Removing DB Health Assistant

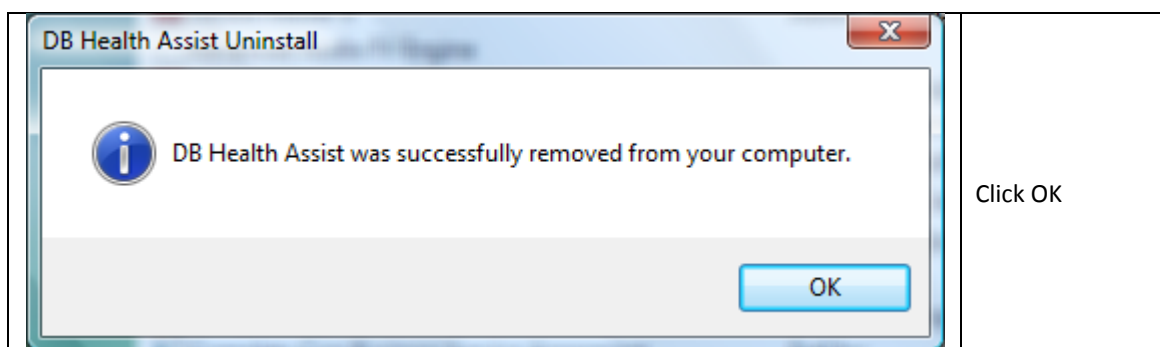
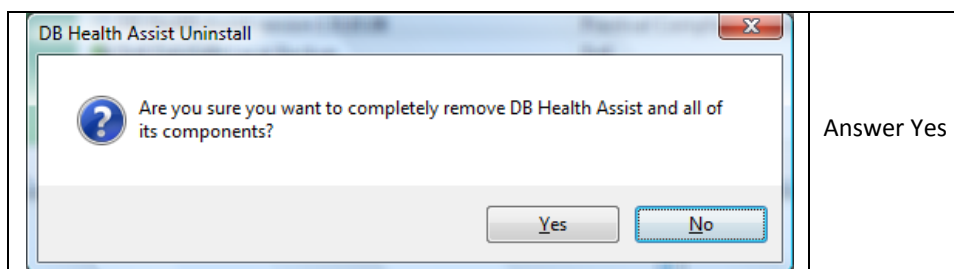
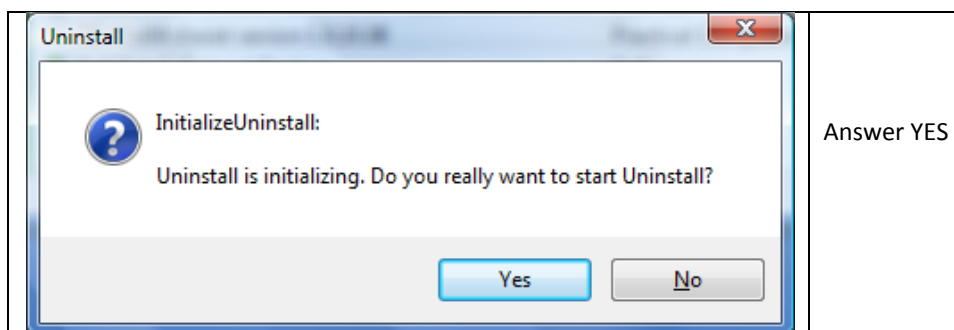


Open Control Panel and select "Add Remove Programs" or "Programs and Features"

Find DB Health Assist, select it and remove it.



DB Health Assistant Installation Guide



You can then delete the directory manually. The uninstall process always leaves behind the logs. Also if the shortcut is left behind you can delete it as well.

DB Health Assistant Installation Guide

