

IPSWITCH

WhatsUp Gold Database Migration and Management Guide v16.4



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CHAPTER 1

How to use this guide

This guide details instructions for the following workflows. Follow the set of instructions specific to the migration procedure you are using to migrate your WhatsUp Gold database.

- S Migrating the WhatsUp Gold database using using SQL Server Management Studio (on page 2)
- **§** Migrating WhatsUp Gold to a new SQL server with a local database (on page 17)
- **§** Migrating WhatsUp Gold to a new SQL server with a remote database (on page 22)

Additionally, depending on your WhatsUpGold configuration, you may also need to reference the following workflows if you use End User Monitor components with APM and/or limited rights account.

- S Migrating the iDrone Service Database (if you are using EUM Pollers with APM) (on page 29)
- **§** Using Limited Rights Accounts with WhatsUp Gold (on page 30)

CHAPTER 2

Migrating the WhatsUp Gold SQL Server databases using SQL Server Management Studio

In This Chapter

Introduction.....2

Introduction

This section explains how to migrate the WhatsUp Gold database from an instance of Microsoft SQL Server installed on the same computer as WhatsUp Gold to a separate local or remote instance of Microsoft SQL Server. To use this portion of the guide, SQL Server Management Studio tools must be installed. Please note, WhatsUp Gold installation does not include these tools. SQL Server Management Studio tools can be acquired and installed from the Microsoft website.

Step 1: Verify SQL Server meets requirements

You can use an existing Microsoft SQL Server to store the data collected by WhatsUp Gold. To do this, each of the following requirements must be met:

Microsoft SQL Server must be installed on the WhatsUpGold host computer or another computer.

WhatsUp Gold does not support non-English versions of Microsoft SQL Server.

S Ensure the server level collation for the destination SQL Server matches the current collation of the source SQL Server Express installation. See the instructions for how to do this below.

Note: If your Microsoft SQL Server is configured with non-default collation standards, you must set collation for each WhatsUp Gold database (WhatsUp, NetFlow, and NFArchive) to SQL_Latin1_General_CP1_CI_AS.

- S Ensure that, if WhatsUp Gold and the SQL Server are not located on the same physical machine (server), the system clocks are synchronized to the same time zone. If the system clocks are not synchronized, inaccurate data may occur in reports.
- Microsoft SQL Server must be configured for mixed-mode authentication. Migration requires use of the "sa" account.
- **§** If Microsoft SQL Server is installed on a remote computer, remote connections must be allowed.
- S Use a Microsoft SQL Server user account to connect to the database.

To determine the collation of a SQL Server:

- 1 Open SQL Server Management Studio and connect to the destination server when prompted.
- 2 Right-click the SQL Server folder at the top of the explorer tree, then click Properties.





3 Click General. The server collation is listed in the Server Collation field.

Ensure that the server level collation for the destination SQL server matches the current collation of the source Microsoft SQL Server 2008 R2 Express Edition installation.

Step 2: Back up the database

Execute these procedures on the computer on which WhatsUp Gold is installed.

To back up the database from the WhatsUp Gold admin console:

1 Open the WhatsUp Admin Console, then click **Tools > Database Utilities > Backup** WhatsUp Database.



2 If you are licensed for Flow Monitor plug-in, repeat this for both the Flow Monitor current and Flow Monitor Archive databases.

🔮 Ipswitch WhatsUp Gold v16.	.1 - [Network Explorer - My N	etwork]					
[File Edit View Configure	Tools Window Help						
📄 💋 🎘 🗞 🗃 My Network	Discover Devices VoIP Configuration Utility Failover Console						
🖁 Device Groups	Remote Desktop	A Host Name	Addres	is	Device Type	Status	
My Network All devices (dynamic group All routers (dynamic group	Running Actions Database Utilities	Back Up WhatsUp SQL D Restore WhatsUp SQL D	atabase atabase				1
E G Layer 2 Maps E G Smart5can (2/14/2013 03:	IFIP Server Secongs Import Trap Definitions Acknowledge	Restore Flow Monitor SC Tools	(L Databases 🔸	Back Up Flow Mc	onitor Current Dat onitor Archive Dat	abase abase	east 5 min); 45!

3 If the destination Microsoft SQL Server is installed on a remote computer, copy the backup files (WhatsUp.bak, NetFlow.bak, and NFArchive.bak) created during the backup process to the remote computer. These files are located in the locations you specified previously.

To back up the database from a command line interface:

Note: The examples below assume that you have created your WhatsUp Gold databases using the default names. If you used custom names, substitute your database names wherever the default names are indicated.

Note: Database names must exactly match the database names from the source Microsoft SQL Server: *WhatsUp, NetFlow,* and *NFArchive*.

1 Open a command prompt:

- From Windows, click Start > Run. The Run dialog appears.
- **§** Type cmd, then press ENTER. The command prompt appears.
- 2 Back up the Whats Up Gold database.

Note: In the following commands, substitute <SQL server name> with the host name of the Microsoft SQL Server. If Microsoft SQL Server uses a named instance (rather than the default instance), enter SQL_server_name\Instance_name for <SQL server name>.

Note: The <username> and <password>values should be replaced with the username and password for your SQL Administrator account.

§ To back up the WhatsUp database, execute the following case-sensitive command:

sqlcmd -S <SQL server name> -U <user name> -P <password> -Q "BACKUP DATABASE WhatsUp TO DISK='WhatsUp.bak'"

- 3 If you are licensed for Flow Monitor plug-in, back up the Netflow and NFArchive databases.
 - **§** To back up the Netflow database, execute the following case-sensitive command:

sqlcmd -S <SQL server name> -U <user name> -P <password> -Q "BACKUP DATABASE NetFlow TO DISK='NetFlow.bak'"

§ To back up the NFArchive database, execute the following case-sensitive command:

sqlcmd -S <SQL server name> -U <user name> -P <password> -Q "BACKUP DATABASE NFArchive TO DISK='NFArchive.bak'"

4 If the destination Microsoft SQL Server is installed on a remote computer, copy the backup files (WhatsUp.bak, NetFlow.bak, and NFArchive.bak) created during the backup process to the remote computer.

Step 3: Migrate the database to Microsoft SQL Server

The steps below assume that you have created your WhatsUp Gold databases using the default names. If you used custom names, substitute your database names wherever the default names are indicated.

Important: Database names must exactly match the database names from the source Microsoft SQL Server: *WhatsUp*, *NetFlow*, and *NFArchive*.

1 On the destination SQL Server, launch SQL Server Management Studio and login with either Windows Authentication *if the windows user has sysadmin rights*, or a SQL account that has sysadmin rights. Be sure to select the appropriate SQL Server instance in the **Server Name** box.

Connect to Server	×
Microsoft*	Sarvariano
C JQL	Server 2008
Server type:	Database Engine
Server name:	RKVM-2008R2\WHATSUP
Authentication:	SQL Server Authentication
Login:	WhatsUpGold_RKVM-2008R2
Password:	***********
	Remember password
Connec	Cancel Help Options >>

2 Right-click **Databases** in the left hand Object Explorer tree, then click **Restore Database**.



The Restore Database dialog appears.

3 Select **From device**, then click browse (...).

🣒 Restore Database -		×
Select a page	🔄 Script 👻 💽 Help	
General	Destination for restore	
	Select or type the name of a new or existing database for your restore operation.	
	To database:	
	To a point in time: Most recent possible	
	Source for restore	
	Specify the source and location of backup sets to restore.	
	C From database:	
	From device:	1
	Select the backup sets to restore:	1
	Restore Name Component Type Server Database Position First LSN Last LST	
Connection		
Server: RKVM-2008R2\WHATSUP		
Connection: WhatsUpGold_RKVM-2008R2		
View connection properties		
Progress		
Ready		
-64.5°	<u>د</u>	
	OK Cancel	//

The Specify Backup dialog appears.

4 Click Add.

📟 Specify Backup		×
Specify the backup media an	d its location for your restore operation.	
Backup media:	File	T
Backup location:)	
		Add
		Remove
		Contents
	OK Cano	el Help

The Locate Backup File dialog appears.

5 Navigate to the location of the database backup file (.bak), then click **OK**.

🔋 Locate Backup File - RKVM-:	2008R2\WHATSUP	_ 🗆 🗙
Select the file:		
Adobe		
🗄 🧰 Common Files		
🕀 🛅 InstallShield Install	lation Information	
🕀 🧰 Internet Explorer		
庄 🧰 Ipswitch		
庄 🚞 Kiwi SyslogGen		
🕀 🧰 Microsoft Office		
庄 🚞 Microsoft SDKs		
📄 🧰 Microsoft SQL Ser	ver	
主 💼 100		
📄 🕀 💼 80		
🗎 🕀 💼 90		
🗄 🛅 Microsoft Visu	al Studio 9.0	
🖻 🚞 MSSQL10_50	WHATSUP	
⊡ <u> </u>		
E- Backu	1P	
	atabase.bak	
Binn		
± Install		
	1-	
	ila Isto Dista	
	ide Dala	
Microsoft SOL Ser	ver Compact Edition	
Hierosoft Supebro	nization Services	-
Selected path:	C:\Program Files (x86)\Microsoft SQL3	Server\M
Files of type:	Backup Files(*.bak;*.tm)	•
File name:	database.bak	
	OK	Cancel

The Specify Backup dialog appears listing file path of the .bak file.

📟 Specify Backup		×
Specify the backup media and its loc	cation for your restore operation.	
Backup media:	File	
Backup location:		
C:\Program Files (x86)\Microsoft SQ	L Server\MSSQL10_50.WHATSUP\MSSQl Add	
	Remove	1
	Contents	i i
	Contents	
 	>	
		-
	OK Cancel Help	
		1.

6 Click **OK**. The Restore Database dialog appears.

🧻 Restore Database - Whatsl	qu 🗖 🗖						
Select a page	🛒 Script 👻 📑 Help						
General							
T Uptions	Destination for restore						
	Select or type the name of a new or existing database for your restore operation.						
	To database: WhatsUp						
	To a point in time: Most recent possible						
	Source for restore						
	Specify the source and location of backup sets to restore.						
	O From database:						
	From device: C:\Program Files (x86)\Microsoft SQL Server\MSSQL1						
	Select the backup sets to restore:						
	Restore Name Component Type Server Database Position						
	Database Full RKVM-2008R2\WHATSUP WhatsUp 1						
Connection							
Server: RKVM-2008R2\WHATSUP							
Connection: sa							
View connection properties							
Progress							
Ready							
Page Page	x						
	OK Cancel						

- 7 In the To database box, enter WhatsUp.
- 8 In the Select the backup sets to restore section of the dialog, click to select the **Restore** checkbox.
- 9 Click OK. The restore process completes.

10 Repeat these steps for the Netflow and NFArchive database backups if you are currently licensed for Flow Monitor plug-in.

Important: If you are currently licensed for Flow Monitor plug-in, you must restore all three databases.

Step 4: Creating a dedicated user account

After the databases have been restored, a user account is required to connect from the WhatsUp application. The following example steps create an account called WhatsUpGold_User with a password of P@sswOrd. This user is configured with the necessary rights to connect and use the Whatsup, NetFlow, and NFArchive databases. All commands are run inside a New Query window in SQL Server Management Studio.

1 Click the New Query button on the toolbar in SQL Server Management Studio.



A blank Query window opens on the right side of the screen.

2 Type the following:



- 3 Click the **Execute** button. The commands execute and a confirmation appears at the bottom of the query that reads, "Command(s) completed successfully."
- 4 To assign a new login to the dbo user in each of the three restored databases, enter the following command in the Query window:

```
ALTER AUTHORIZATION ON DATABASE::[WhatsUp] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NetFlow] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NFArchive] TO [WhatsUpGold_User]
```

- 5 Click the **Execute** button. The commands execute and a confirmation appears at the bottom of the query that reads, "Command(s) completed successfully."
- 6 To grant the new login the ability to create new application databases, enter the following command in the Query window:

```
GRANT CREATE ANY DATABASE TO [WhatsUpGold_User]
```

- 7 Click the **Execute** button. The commands execute and a confirmation appears at the bottom of the query that reads, "Command(s) completed successfully."
- 8 (Optional) To prevent the new login from having visibility into other non-WhatsUp databases, enter the following command in the Query window:

DENY VIEW ANY DATABASE TO [WhatsUpGold_User]

9 Click the **Execute** button. The commands execute and a confirmation appears at the bottom of the query that reads, "Command(s) completed successfully."

Step 5: Update the database connections

Execute this procedure on the computer on which WhatsUp Gold is installed.

- 1 Verify that the username and password for WhatsUp Gold has been configured for use when connecting to the database.
 - a) From the Windows Start menu:
 - **§** For Windows 64-bit OSes, click **Start > Run**. The Run dialog appears.
 - **§** Enter c:\Windows\SysWOW64\odbcad32.exe. The ODBC Data Source Administrator dialog appears.

- or -

- **§** For Windows 32-bit OSes, click **Start > Run**. The Run dialog appears.
- § Enter c:\Windows\system32\odbcad32.exe. The ODBC Data Source Administrator dialog appears.
- b) Click the System DSN tab.

🐺 O	DBC Da	ta Source Ad	ministrat	or				×
Us	er DSN	System DSN	File DSN	Drivers	Tracing	Connection	Pooling	g About
S	ystem Da	ata Sources:						
	Name	Driver						Add
	NetFlow WhatsU	SQL Server p SQL Server					F	lemove
							Co	onfigure
		An ODBC Sy the indicated on this mach	stem data s data provid ine, includir	ource sto ler. A Sy Ig NT serv	es informa stem data rices.	ition about hi source is visi	ow to ce ible to a	onnect to Ill users
			OK		ancel	Apply		Help

c) Select the WhatsUp DSN, then click **Configure**. The Configuration Wizard appears.

Microsoft SQL Server D	SN Configuration
	This wizard will help you create an ODBC data source that you can use to connect to SQL Server.
	What name do you want to use to refer to the data source?
	Name: WhatsUp
	How do you want to describe the data source?
	Description: WhatsUp Database
	Which SQL Server do you want to connect to?
	Server: RKVM-2008R2\WHATSUP
	Finish Next > Cancel Help

- d) Verify that the boxes in the first dialog are correct for your SQL Server authentication preferences, then click **Next**.
- e) On the second dialog, verify that the **With SQL Server authentication using login ID and password entered by the user** option is selected. In the **Login** box, enter the SQL username. In the **Password** box, enter the SQL user's password. Click **Next**.

Microsoft SQL Server D	SN Configuration	×				
	How should SQL Server verify the authenticity of the login ID?					
	\bigcirc With Windows NT authentication using the network login ID.					
	 With SQL Server authentication using a login ID and password entered by the user. 					
	To change the network library used to communicate with SQL Server, click Client Configuration.					
	Client Configuration					
	Connect to SQL Server to obtain default settings for the additional configuration options.					
	Login ID: WhatsUpGold_User					
	Password:					
	<back next=""> Cancel Help</back>					

f) On the third dialog, verify that the **Change the default database** to option is selected and that the WhatsUp database appears in the drop-down menu. Click **Next**.

Microsoft SQL Server D	5N Configuration	×
	Change the default database to: WhatsUp Attach database filename:	
	 Create temporary stored procedures for prepared SQL statements and drop the stored procedures: Dily when you disconnect. When you disconnect and as appropriate while you are connected. Use ANSI quoted identifiers. Use ANSI nulls, paddings and warnings. Use the failover SQL Server if the primary SQL Server is not available. 	
	< <u>B</u> ack <u>N</u> ext > Cancel Help	

g) Continue to click **Next** until you come to the final dialog, then click **Finish**. The ODBC Microsoft SQL Server Setup dialog appears. You can click **Test Data Source** to test the configuration or click **OK**.

ODBC Microsoft SQL Server Setup	×
A new ODBC data source will be created with the following configuration:	
Microsoft SQL Server ODBC Driver Version 06.01.7601	A
Data Source Name: WhatsUp Data Source Description: WhatsUp Database Server: RKVM-2008R2/WHATSUP Database: WhatsUp Language: (Default) Translate Character Data: Yes Log Long Running Queries: No Log Driver Statistics: No Use Regional Settings: No Prepared Statements Option: Drop temporary procedures on disconnect Use Failover Server: No Use ANSI Null, Paddings and Warnings: Yes Data Encryption: No	
	T
Test Data Source OK Can	cel

- h) Repeat steps b f for the NetFlow DSN.
- 2 Verify that WhatsUp Gold and its plug-ins use the updated username and password for the database.

 a) Open the WhatsUp Gold Database Configuration Utility from the Startmenu at Start
 > Programs > Ipswitch WhatsUp Gold > Utilities > Database Configuration Utility.

🥑 Database Conne	ction	
Server Name:	RKVM-2008R2\WHATSUP	
Browse for Server:		~
-Authentication -		
C Use Windo	ws Authentication	
Use SQL S	erver Authentication	
Username:	WhatsUpGold_RKVM-2008R2	
Password:	•••••	
Database Timeout	: 60 💼 seconds	
		Connect
This tool is used to Gold and its plug-i from the WhatsUp necessary, enter a connection inform	o modify the database connection ns. The database server and insta DSN. Select an authentication m a username and password. To ver ation, click Connect.	for WhatsUp ance are inherited aethod and, if ify your

- b) Select Use SQL Server Authentication.
- c) Verify that the **Username** and **Password** that you entered in the DSN are correct, then click **Connect**. The utility verifies the connection information. If the information is correct, the Update Registry dialog appears.
- d) Verify the **Restart the WhatsUp service after the update** is *not* selected.



e) Click **Save**. The utility updates the database connection settings and restarts services. The Finished dialog appears.

Finished	
The update was successful. WhatsUp Gold and its plug-ins will now you have specified.	use the database connections
	Finish

- f) Click Finish.
- 3 Remove the Microsoft SQL Server service dependencies from the Ipswitch Service Control Manager.
 - a) Open the Windows command prompt (click **Start > Run**, then enter cmd.exe).
 - b) Enter the following case-sensitive command:

sc config "Ipswitch Service Control Manager" depend= "RPCSS"

Note: There is a space after depend= and before "RPCSS". This space is required for the script to execute.

This command removes the dependency on Microsoft SQL Server from the WhatsUp Services Manager.

4 If you are using the Microsoft Internet Information Services (IIS) web server, start the WhatsUp Services Manager (Start > Ipswitch WhatsUp Gold > Utilities > Service Manager), then start the Microsoft Internet Information Services (IIS) service.

Tip: You can use the WhatsUp Services Controller dialog (Ipswitch Service Control Manager)	
to manage services. For more information, see About the WhatsUp Services Controller in the	
help.	

Note: Some services are optional. If the associated product is not licensed and enabled, you may not be able to start and stop the service with the WhatsUp Services Controller dialog (Ipswitch Services Control Manager). Your license file determines whether you can access a plug-in. To update your license, visit the *WhatsUp Customer portal* (*http://www.whatsupgold.com/wugCustPortal*).

5 Start the Desktop Actions Application and the Task Tray Application by selecting each application on the Start menu (Start > Ipswitch WhatsUp Gold > Utilities).

After completing these steps, WhatsUp Gold resumes polling and writes all new data to the Microsoft SQL Server database.

CHAPTER 3

Migrating WhatsUp Gold to a new SQL server

In This Chapter

This section explains how to migrate an installation of WhatsUpGold from one server to another.

- **§** If you are using a local Microsoft SQL Server database with WhatsUpGold, follow the instructions for *Migrating WhatsUp Gold with a local database* (on page 17). These instructions assume you are using the latest version of WhatsUp Gold.
- **§** If you are using a remote database with WhatsUp Gold, follow the instructions for *Migrating WhatsUp Gold with a remote database* (on page 22).

Important: If you are migrating to Microsoft SQL Server 2012 or later, you must first upgrade WhatsUp Gold to version 16.2 or later.

Migrating WhatsUp Gold with a local database

These instructions explain how to move an installation of WhatsUp Gold that is using a local database from one server to another.

Step 1: Upgrade existing server to latest version of WhatsUp Gold

To successfully migrate WhatsUpGold from one server to another, the versions of WhatsUpGold on both servers must match exactly. We strongly recommend upgrading to the latest version of WhatsUpGold, which is available to active service agreement holders on the WhatsUpCustomerPortal. If you are not an active service agreement holder, you can renew your service agreement in the WhatsUpCustomerPortal.

To download the latest version of WhatsUp Gold:

1 Go to the WhatsUp Customer Portal (http://www.whatsupgold.com/wugCustPortal).

2 If you do not have an account, create a new account.

- or -

If you have an account, enter your username and password to access your account.

- 3 Select the My Downloads tab. The My Downloads page appears.
- 4 In the **Network Management** section, locate the latest version of WhatsUp Gold that is available to you. If this version is newer than the currently installed version of WhatsUp Gold, click **Download**. The file begins downloading.

After the download completes, launch the installation program to upgrade. Follow the onscreen instructions to complete the installation.

Tip: Additional installation instructions are available in the Release Notes, which are available from the first screen of the installation program.

Step 2: Back up existing databases

To move the data from the existing server to the new server, you must first back up the databases.

Caution: Any data collected from the time you back up the databases to when you restore them on the new server will be lost. We recommend executing these steps during non-peak times, when minimal downtime can be tolerated.

To back up the databases:

- 1 Back up the WhatsUp Gold database.
 - a) From the WhatsUp Gold console, select **Tools> Database Utilities > Back Up WhatsUp SQL Database**. The Save Database As dialog appears.
 - b) Enter a name for the database backup file, such as what sup_backup.bak, then click **Save**.
- 2 Back up the Flow Monitor database.
 - a) From the WhatsUp Gold console, select **Tools> Database Utilities > Back Up Flow Monitor SQL Databases > Back Up Flow Monitor Current Database**. The Save Database As dialog appears.
 - b) Enter a name for the database backup file, such as nf_backup.bak, then click Save.
- **3** Back up the Flow Monitor archive database.
 - a) From the WhatsUp Gold console, select **Tools> Database Utilities > Back Up Flow Monitor SQL Databases > Back Up Flow Monitor Archive Database**. The Save Database As dialog appears.
 - b) Enter a name for the database backup file, such as nfarchive_backup.bak, then click **Save**.

4 Close the WhatsUp Gold console.

Note: These operations may take some time depending on the size of your database.

Note: Even if you do not use the WhatsUp Gold Flow Monitor plug-in, you need to back up the Flow Monitor databases.

Step 3: Disable WhatsUp Gold on existing server

Your license provides a limited number of activations, so we recommend deactivating the license on the existing server before installing on the new server.

To deactivate the license on the existing server:

- 1 From the Windows Startmenu, select **Programs > Ipswitch WhatsUp Gold > Manage WhatsUp Gold License**. The WhatsUp Gold Activation utility appears.
- 2 Select **Deactivate this license on this computer**, then click **Next**. The license is deactivated.
- 3 Click Finish to close the WhatsUp Gold Activation utility.

Step 4: Copy installation program and database backup files to new server

Using a network share, common FTP server, USB thumb drive, or whatever method you prefer, copy the installation program and the database backupfiles to the new server. We recommend storing these files in a temporary directory.

Step 5: Install WhatsUp Gold on new server

Using the installation program that you copied in step four, install WhatsUp Gold. Refer to *Installing and Configuring WhatsUp Gold (http://www.whatsupgold.com/wuginstall_164)* for specific steps for installing WhatsUp Gold.

Step 6: Restore backed up databases over new server's default databases

After WhatsUp Gold is installed using the default database, you can restore your existing database.

Note: It is recommended that you only restore the database from a local drive; restoring a database from a network drive can potentially cause severe problems with your database.

To restore the backed-up databases over the new server's default databases:

- 1 Restore the WhatsUp Gold database.
 - a) From the WhatsUp Gold console, select **Tools> Database Utilities > Restore WhatsUp SQL Database**. The Restore Database From dialog appears.
 - b) Locate and select the database backup file that you moved from the existing WhatsUp Gold server, then click **Open**.
 - c) When prompted, entervalid credentials for a SQL Login in the sysadmin role and click **OK**.

Note: If a dialog appears informing you that the WhatsUp service must be stopped and restarted during a database restore, click **Yes**.

- 2 Restore the Flow Monitor database.
 - a) From the WhatsUp Gold console, select Tools> Database Utilities > Restore Flow Monitor SQL Databases > Restore Flow Monitor Current Database. The Restore Database From dialog appears.
 - b) Locate and select the database backup file that you moved from the existing WhatsUp Gold server, then click **Open**.
 - c) When prompted, entervalid credentials for a SQL Login in the sysadmin role and click **OK**.

Note: If a dialog appears informing you that the Flow Monitor service must be stopped and restarted during a database restore, click **Yes**.

- 3 Restore the Flow Monitor Archive database.
 - a) From the WhatsUp Gold console, select Tools> Database Utilities > Restore Flow Monitor SQL Databases > Restore Flow Monitor Archive Database. The Restore Database From dialog appears.
 - b) Locate and select the database backup file that you moved from the existing WhatsUp Gold server, then click **Open**.
 - c) When prompted, entervalid credentials for a SQL Login in the sysadmin role and click **OK**.

Note: If a dialog appears informing you that the Flow Monitor service must be stopped and restarted during a database restore, click **Yes**.

Step 7: Migrate settings and files that are not stored in database

WhatsUp Gold stores some settings in the Windows Registry which must be manually reentered on the new server.

Caution: We do not recommend exporting registry hives on the existing server to import on the new server, as some settings are custom to the specific computer. Importing the computer-specific settings from one computer into the registry of another can result in instability.

4

Important: Make sure that non-default port settings are set appropriately on the computer to which you migrate WhatsUp Gold.

If any of the following settings were modified on the existing server, the modifications must be repeated on the new server:

- S Passive Monitor Listeners (Configure > Program Options > Passive Monitor Listeners)
- § Report Data (Configure > Program Options > Report Data)
- § Regional (Configure > Program Options > Regional)
- § Modem port settings (available from the Beeper and Pager actions dialogs)

In addition, any settings manually configured in the registry must also be reconfigured on the new server.

Important: This includes Device Group Access rights. Select **Admin > Users** to launch the Manage Users dialog and ensure **Enable Device Group Access Rights** is selected.

Copy files you have added to the Data subfolder of the WhatsUp Gold install directory to the same location on the new server. These files include custom sounds, MIB files, device icons, and SSL certificates.

Step 8: Restart WhatsUp Gold services on new server

We recommend restarting the server for optimal performance. If restarting the entire server is not an option, however, you can restart the following services:

Tip: You can use the WhatsUp Services Controller dialog (Ipswitch Service Control Manager) to manage services. For more information, see About the WhatsUp Services Controller

Note: Some services are optional. If the associated product is not licensed and enabled, you may not be able to start and stop the service with the WhatsUp Services Controller dialog (Ipswitch Services Control Manager). Your license file determines whether you can access a plug-in. To update your license, visit the *WhatsUp Customer portal* (*http://www.whatsupgold.com/wugCustPortal*).

- **§** Polling Engine (nmservice.exe)
- § Flow Collector (bwcollector.net.exe)
- § Alert Center (alertcenterservice.exe)
- **§** Configured (networkconfigservice.exe)
- § Discovery (discoveryservice.exe)
- § Failover Manager (nmfailover.exe)
- § API (nmapi.exe)
- **§** Connected Data Service (networkviewerdataservice.exe)
- § VirtualService (whatsvirtualservice.exe)
- **§** Service Bus (nmservicebus.exe)
- § Polling Controller (nmpollingcontroller.exe)
- **§** Data Collector (nmdatacollector.exe)
- S Active Monitor Manager (nmmanagers.exe)
- § Poller (nmpoller.exe)
- § Task Controller (nmtaskcontroller.exe)
- § Wireless (nmwireless.exe)
- § WhatsUpConfigurationAPI (nmconfigurationmanager.exe)
- **§** WhatsUp Message Server (nmmessageserver.exe)
- Internet Information Services (IIS). To access IIS options, click Start, then type services.msc in the Search box. Locate the World Wide Web Publishing Service in the dialog, right-click it, and then select Restart.

Migrating WhatsUp Gold with a remote Microsoft SQL Server database

These instructions explain how to move an installation of WhatsUp Gold that is using a remote Microsoft SQL Server database from one server to another.

Prerequisites

The following requirements must be met to successfully use an existing Microsoft SQL Server database:

- S Microsoft SQL Server (Englishonly) must be installed on the WhatsUp Gold host computer or another computer. WhatsUp Gold does not support non-English versions of Microsoft SQL Server.
- **§** Ensure the server level collation for the destination SQL Server matches the current collation of the source SQL Server installation.
- S Ensure that, if WhatsUp Gold and the SQL Server are not located on the same physical machine (server), the system clocks are synchronized to the same time zone. If the system clocks are not synchronized, inaccurate data may occur in reports.
- S Microsoft SQL Server must be configured for mixed-mode authentication. Migration requires use of the "sa" account.
- If Microsoft SQL Server is installed on a remote computer, remote connections must be allowed.
- **§** Use a Microsoft SQL Server user account to connect to the database.
- S Microsoft SQL Server must be configured to have a user account that meets the following requirements:
- S The SQL login used must be a member of the sysadmin server role - or -

If the SQL login is not a member of the sysadmin server role:

\$ The SQL login must have the CREATE ANY DATABASE right for new WhatsUp Gold installations

- or -

The SQL login must be the owner of the databases for WhatsUp Gold to function properly. Additionally, the SQL login must be a member of the db_owner database role for all product databases.

Note: Following application and database setup, you can set the DENY VIEW ANY DATABASE permission for the SQL login if desired. If this permission is set, ensure the SQL login can still access the WhatsUp Gold databases.

For additional information on the sysadmin server role and limited rights accounts, see the *Limited Rights: Overview* (on page 30).

S User's language is set to (United States) English. This can be set in the properties for the login used by WhatsUp Gold.

To determine the collation of a SQL Server:

- 1 Open SQL Server Management Studio and connect to the destination server when prompted.
- 2 Right-click the SQL Server folder at the top of the explorer tree, then click Properties.





3 Click General. The server collation is listed in the Server Collation field.

Step 1: Upgrade existing server to latest version of WhatsUp Gold

To successfully migrate WhatsUpGold from one server to another, the versions of WhatsUpGold on both servers must match exactly. We strongly recommend upgrading to the latest version of WhatsUpGold, which is available to active service agreement holders on the WhatsUpCustomer Portal. If you are not an active service agreement holder, you can renew your service agreement in the WhatsUpCustomer Portal.

To download the latest version of WhatsUp Gold:

- 1 Go to the WhatsUp Customer Portal (http://www.whatsupgold.com/wugCustPortal).
- 2 If you do not have an account, create a new account.

- or -

If you have an account, enter your username and password to access your account.

- 3 Select the My Downloads tab. The My Downloads page appears.
- 4 In the **Network Management** section, locate the latest version of WhatsUp Gold that is available to you. If this version is newer than the currently installed version of WhatsUp Gold, click **Download**. The file begins downloading.

After the download completes, launch the installation program to upgrade. Follow the onscreen instructions to complete the installation.

Tip: Additional installation instructions are available in the Release Notes, which are available from the first screen of the installation program.

Step 2: Disable WhatsUp Gold on existing server

Your license provides a limited number of activations, so we recommend deactivating the license on the existing server before installing on the new server.

To deactivate the license on the existing server:

- 1 From the Windows Start menu, select **Programs > Ipswitch WhatsUp Gold > Manage WhatsUp Gold License**. The WhatsUp Gold Activation utility appears.
- Select Deactivate this license on this computer, then click Next. The license is deactivated.
- 3 Click Finish to close the WhatsUp Gold Activation utility.

After you deactivate the license, you can safely uninstall WhatsUp Gold.

Warning: During the uninstall, select **Remove the WhatsUp Gold application, but leave network data I have collected intact**. Selecting any other option will delete all of the data from the WhatsUp Gold database.

Step 3: Install WhatsUp Gold on new server

Using the installation program that you copied in step four, install WhatsUp Gold. Refer to *Installing and Configuring WhatsUp Gold (http://www.whatsupgold.com/wuginstall_164)* for specific steps for installing WhatsUp Gold.

Step 4: Migrate settings and files that are not stored in database

WhatsUp Gold stores some settings in the Windows Registry which must be manually reentered on the new server.

Caution: We do not recommend exporting registry hives on the existing server to import on the new server, as some settings are custom to the specific computer. Importing the computer-specific settings from one computer into the registry of another can result in instability.

Important: Make sure that non-default port settings are set appropriately on the computer you migrate WhatsUp Gold to.

If any of the following settings were modified on the existing server, the modifications must be repeated on the new server:

- S Passive Monitor Listeners (Configure > Program Options > Passive Monitor Listeners)
- § Report Data (Configure > Program Options > Report Data)
- § Regional (Configure > Program Options > Regional)
- **§** Modem port settings (available from the Beeper and Pager actions dialogs)

In addition, any settings manually configured in the registry must also be reconfigured on the new server.

Important: This includes Device Group Access rights. Select Admin > Users to launch the Manage Users dialog and ensure Enable Device Group Access Rights is selected.

Copy files you have added to the Data subfolder of the WhatsUp Gold install directory to the same location on the new server. These files include custom sounds, MIB files, device icons, and SSL certificates.

Troubleshooting migration issues

Error: "Could not find '<SQL server name>' in sys.servers."



If you encounter this error after migrating, the host name of the SQL Server may have been changed after Microsoft SQL Server was installed. This causes a disconnect between the actual host name of the server and what Microsoft SQL Server believes the host name to be.

There are two ways to correct this:

S Change the host name of the Microsoft SQL Server back to what the host name was when it was installed.

- **§** Update the sys.servers table to reflect the correct information.
- 1 Execute these commands in the command prompt:
- **2** Restart Microsoft SQL Server.

CHAPTER 4

Migrating the iDrone Service Database

In This Chapter

Migrating the iDrone Service Database

If you are using APM with one or more iDrones (EUM Pollers), in addition to migrating your WhatsUp Gold database, you also need to point the iDrone IIS application to the machine hosting the iDroneService database.

To update the iDroneService database location following WhatsUp Gold database migration:

- 1 Launch Windows Explorer and navigate to the iDrone folder on the WhatsUp Gold server. This is typically <computer>\Program Files (x86)\Ipswitch\WhatsUp\HTML\iDrone.
- 2 Open the Web.config file in any text editor application.
- **3** Modify the dbConnectionString value to match the host where the WhatsUpGold database has been relocated.

Note: For example, if you've relocated the WhatsUp Gold database from the localhost to a server named 'mydbserver':

<value>Server=localhost\WhatsUp;Database=iDroneService;Integrated Security=True;</value>

would be modified to read as follows:

<value>Server=mydbserver\WhatsUp;Database=iDroneService;Integrated Security=True;</value>

4 Save the Web.config file.

CHAPTER 5

Using a Limited Rights Account with WhatsUp Gold

In This Chapter

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Limited Rights: Overview

The following procedures instruct you on how to create or modify an SQL login for use by WhatsUp Gold depending on your database configuration. Please note the following:

- S This section is only applicable if you are upgrading WhatsUp Gold from a previous release to version 16.1 or later. New WhatsUp Gold installations use limited rights account settings by default.
- S This content assumes you have already installed WhatsUp Gold and have already begun collecting network data. If you have not yet installed the software, do so before proceeding.
- **\$** These instructions are valid for all editions of SQL Server and for all currently-supported versions of SQL Server.
- S The commands to create the SQL login, assign rights and database permissions should be run as a user who is a member of the sysadmin fixed server role.
- S These commands can be executed using the SQLCMD utility, delivered with the WhatsUp Gold install or can be run by a database administrator with the necessary permissions. See Executing SQL statements against the WhatsUp Gold database http://whatsupgold.force.com/kb/articles/FAQ/How-To-Executing-SQL-statements-against-the-WhatsUp-Gold-database-130771774087 for information on executing SQL statements using SQLCMD.

By default, the three application databases are named WhatsUp, Netflow, and NFArchive. If you have chosen alternate names for your application databases, you will need to enter the correct names in place of these in the SQL commands within the following procedures.

We recommend naming the SQL login WhatsUpGold_User to provide an easily distinguishable name for the login, but you are free to assign whatever label you would prefer to the login.

Additionally, we recommend granting the CREATE ANY DATABASE and VIEW SERVER STATE server permissions to the SQL login. This allows the application to create additional databases should a future version of WhatsUp Gold require themfor data storage. And, it allows the application to monitor the performance of general SQL statistics for use in diagnostic troubleshooting.

Limited Rights: Local SQL Server

Limited Rights: Local SQL Server - Windows authentication with local administrator account

Use the following procedure to create a dedicated SQL login if your WhatsUp Gold solution utilizes a customer-installed instance of SQL on the same computer as WhatsUp Gold. A new SQL login must be provisioned in the SQL instance and must be assigned ownership of the application databases.

If WhatsUp Gold is configured to use Windows Authentication to connect to the database, the connection must be modified to use SQL Authentication.

To create a dedicated SQL login for use by WhatsUp Gold:

- 1 Stop the Ipswitch Network Management Windows services, main WhatsUpGold application, and task tray applications.
- 2 Stop IIS.
- 3 Enable mixed mode authentication in the SQL server instance.
- 4 Restart the SQL server processes.

Note: Steps 3 and 4 may require you to refer to the Microsoft SQL Server documentation.

- 5 Launch the SQLCMD utility.
- 6 Ensure you are connected to the master database.
- 7 Create a SQL login by entering the following command:

```
CREATE LOGIN [WhatsUpGold_User] WITH PASSWORD = N'P@sswOrd',
DEFAULT_DATABASE = [WhatsUp]
```

8 Assign the new login to the dbo user in each of the applications' databases by entering the following command:

```
ALTER AUTHORIZATION ON DATABASE::[WhatsUp] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NetFlow] TO [WhatsUpGold_User]
```

ALTER AUTHORIZATION ON DATABASE::[NFArchive] TO [WhatsUpGold_User]

9 Grant the new login the ability to create new application database by entering the following command:

GRANT CREATE ANY DATABASE TO [WhatsUpGold_User]

10 Grant the new login the ability to monitor general server performance by entering the following command:

```
GRANT VIEW SERVER STATE TO [WhatsUpGold_User]
```

- 11 Modify the WhatsUp and Netflow system DSN to use SQL Authentication.
- 12 Verify that you can successfully test the database connection using the new SQL login in both DSNs.
- **13** From the WhatsUp Gold program group's Utilities folder in the Start Menu, run the Database Configuration Utility.
- 14 Enter the username and password for the new SQL login and click Connect.
- 15 Restart the lpswitch Network Management services.
- **16** Restart IIS.

Important: After completing the migration to a limited permissions model, we highly recommend you create new backups for each of the application databases. Database backups created prior to this event can no longer be restored using the main WhatsUp Gold application and after restoration, the SQL login used by WhatsUp Gold must be re-assigned to the dbo user in the databases. Database backups made after this event can be restored using the main WhatsUp Gold application and will not require modifications to the dbo user.

Limited Rights: Local SQL Server - SQL authentication with existing sysadmin account

If your WhatsUp Gold solution utilizes SQL authentication with an existing sysadmin account, a new SQL login does not need to be provisioned for WhatsUp Gold. The application can continue using the existing login, however, the login must be removed from the sysadmin fixed server role and then granted the appropriate rights to the application databases. Use the following procedure to grant appropriate application database rights to the SQL login.

Important: This procedure must not be competed using the login used by WhatsUp Gold.

To grant appropriate application database rights to the SQL login:

- 1 Stop the Ipswitch Network Management Windows services, main WhatsUpGold application, and task tray applications.
- 2 Stop IIS.
- 3 Launch the SQLCMD utility.

4 While connected to the master database, remove the WhatsUp Gold SQL login from the sysadmin fixed server role by entering the following command. Replace sqlloginname with the name of the SQL login used by WhatsUp Gold:

```
EXECUTE [sys].[sp_dropsrvrolemember] @loginame = N'sqlloginname',
@rolename = N'sysadmin'
```

5 Verify that the SQL login is not currently mapped to any users in each of the application databases by entering the following command. This command must be executed on each of the application databases:

```
EXECUTE [WhatsUp].[sys].[sp_helpuser] @name_in_db = NULL
EXECUTE [Netflow].[sys].[sp_helpuser] @name_in_db = NULL
EXECUTE [NFArchive].[sys].[sp_helpuser] @name_in_db = NULL
```



Important: If the stored procedure indicates that the SQL login is currently mapped to the dbo UserName in the database, proceed directly to Step 7.

6 If the login is mapped to a database user other than the dbo user, remove the database user for the SQL login by entering the following command. Replace DBUserName with the name of the database user to which the SQL login is associated:

```
DROP USER [DBUserName]
```

Important: This command must be repeated in any application database in which a database user existed for the login (if that database user is not dbo).

7 While connected to the master database, assign the new login to the dbo user in each of the application's databases by entering the following command:

```
ALTER AUTHORIZATION ON DATABASE::[WhatsUp] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NetFlow] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NFArchive] TO [WhatsUpGold_User]
```

8 While connected to the master database, grant the new login the ability to create new application database by entering the following command:

```
GRANT CREATE ANY DATABASE TO [WhatsUpGold_User]
```

9 While connected to the master database, grant the new login the ability to monitor general server performance by entering the following command:

GRANT VIEW SERVER STATE TO [WhatsUpGold_User]

- **10** From the WhatsUp Gold program group's Utilities folder in the Start Menu, run the Database Configuration Utility.
- **11** Enter the username and password for the new SQL login and click **Connect**.
- 12 Restart IIS.

Important: After completing the migration to a limited permissions model, we highly recommend you create new backups for each of the application databases. Database backups created prior to this event can no longer be restored using the main WhatsUp Gold application and after restoration, the SQL login used by WhatsUp Gold must be re-assigned to the dbo user in the databases. Database backups made after this event can be restored using the main WhatsUp Gold application and will not require modifications to the dbo user.

Limited Rights: Local SQL Server - SQL authentication with sa login

Use the following procedure to create a dedicated SQL login if your WhatsUp Gold solution utilizes SQL authentication with an existing sa account. A new SQL login must be provisioned in the SQL instance and must be assigned ownership of the application databases.

To create a dedicated SQL login for use by WhatsUp Gold:

- 1 Launch the SQLCMD utility.
- 2 Ensure you are connected to the master database.
- 3 Create a SQL login by entering the following command:

```
CREATE LOGIN [WhatsUpGold_User] WITH PASSWORD = N'P@sswOrd',
DEFAULT_DATABASE = [WhatsUp]
```

4 Assign the new login to the dbo user in each of the applications' databases by entering the following command:

```
ALTER AUTHORIZATION ON DATABASE::[WhatsUp] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NetFlow] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NFArchive] TO [WhatsUpGold_User]
```

5 Grant the new login the ability to create new application database by entering the following command:

GRANT CREATE ANY DATABASE TO [WhatsUpGold_User]

6 Grant the new login the ability to monitor general server performance by entering the following command:

GRANT VIEW SERVER STATE TO [WhatsUpGold_User]

- 7 Stop the Ipswitch Network Management Windows services, main WhatsUp Gold application, and task tray applications.
- 8 Stop IIS.

- **9** From the WhatsUp Gold program group's Utilities folder in the Start Menu, run the Database Configuration Utility.
- 10 Enter the username and password for the new SQL login and click Connect.
- 11 Restart IIS.

Important: After completing the migration to a limited permissions model, we highly recommend you create new backups for each of the application databases. Database backups created prior to this event can no longer be restored using the main WhatsUp Gold application and after restoration, the SQL login used by WhatsUp Gold must be re-assigned to the dbo user in the databases. Database backups made after this event can be restored using the main WhatsUp Gold application and will not require modifications to the dbo user.

Limited Rights: Remote SQL Server

Limited Rights: Remote SQL Server - SQL authentication with existing sysadmin account

Important: If the connection is using Windows Authentication, the connection should be temporarily modified to use SQL Authentication with an existing sysadmin account before beginning this process.

If your WhatsUp Gold solution utilizes SQL authentication with an existing sysadmin account, a new SQL login does not need to be provisioned for WhatsUp Gold. The application can continue using the existing login, however, the login must be removed from the sysadmin fixed server role and then granted the appropriate rights to the application databases. Use the following procedure to grant appropriate application database rights to the SQL login.

Ø

Important: This procedure must not be competed using the login used by WhatsUp Gold.

To grant appropriate application database rights to the SQL login:

- 1 Stop the Ipswitch Network Management Windows services, main WhatsUpGold application, and task tray applications.
- 2 Stop IIS.
- 3 Launch the SQLCMD utility.
- 4 While connected to the master database, remove the WhatsUp Gold SQL login from the sysadmin fixed server role by entering the following command. Replace sqlloginname with the name of the SQL login used by WhatsUp Gold:

```
EXECUTE [sys].[sp_dropsrvrolemember] @loginame = N'sqlloginname',
@rolename = N'sysadmin'
```

5 Verify that the SQL login is not currently mapped to any users in each of the application databases by entering the following command. This command must be executed on each of the application databases:

```
EXECUTE [WhatsUp].[sys].[sp_helpuser] @name_in_db = NULL
EXECUTE [Netflow].[sys].[sp_helpuser] @name_in_db = NULL
EXECUTE [NFArchive].[sys].[sp_helpuser] @name_in_db = NULL
```



6 If the login is mapped to a database user other than the dbo user, remove the database user for the SQL login by entering the following command. Replace DBUserName with the name of the database user to which the SQL login is associated:

```
DROP USER [DBUserName]
```

Important: This command will need to be repeated in any application database in which a database user existed for the login (if that database user is not abo).

7 While connected to the master database, assign the new login to the dbo user in each of the application's databases by entering the following command.

```
ALTER AUTHORIZATIONON DATABASE::[WhatsUp]TO [WhatsUpGold_User]ALTER AUTHORIZATIONON DATABASE::[NetFlow]TO [WhatsUpGold_User]ALTER AUTHORIZATIONON DATABASE::[NFArchive]TO [WhatsUpGold_User]
```

8 While connected to the master database, grant the new login the ability to create new application database by entering the following command:

GRANT CREATE ANY DATABASE TO [sqlloginname]

9 While connected to the master database, grant the new login the ability to monitor general server performance by entering the following command:

GRANT VIEW SERVER STATE TO [WhatsUpGold_User]

- **10** From the WhatsUp Gold program group's Utilities folder in the Start Menu, run the Database Configuration Utility.
- 11 Enter the username and password for the new SQL login and click Connect.

12 Restart IIS.

Important: After completing the migration to a limited permissions model, we highly recommend you create new backups for each of the application databases. Database backups created prior to this event can no longer be restored using the main WhatsUp Gold application and after restoration, the SQL login used by WhatsUp Gold must be re-assigned to the dbo user in the databases. Database backups made after this event can be restored using the main WhatsUp Gold application and will not require modifications to the dbo user.

Limited Rights: Remote SQL Server - SQL authentication with sa login

Use the following procedure to create a dedicated SQL login if your WhatsUp Gold solution utilizes SQL authentication with an existing sa account. A new SQL login must be provisioned in the SQL instance and must be assigned ownership of the application databases.

To create a dedicated SQL login for use by WhatsUp Gold:

- 1 Launch the SQLCMD utility.
- 2 Ensure you are connected to the master database.
- 3 Create a SQL login by entering the following command:

```
CREATE LOGIN [WhatsUpGold_User] WITH PASSWORD = N'P@sswOrd',
DEFAULT_DATABASE = [WhatsUp]
```

4 Assign the new login to the dbo user in each of the applications' databases by entering the following command:

```
ALTER AUTHORIZATION ON DATABASE::[WhatsUp] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NetFlow] TO [WhatsUpGold_User]
ALTER AUTHORIZATION ON DATABASE::[NFArchive] TO [WhatsUpGold_User]
```

5 Grant the new login the ability to create new application database by entering the following command:

GRANT CREATE ANY DATABASE TO [WhatsUpGold_User]

6 Grant the new login the ability to monitor general server performance by entering the following command:

GRANT VIEW SERVER STATE TO [WhatsUpGold_User]

- 7 Stop the Ipswitch Network Management Windowsservices, main WhatsUpGold application, and task tray applications.
- 8 Stop IIS.

- **9** From the WhatsUp Gold program group's Utilities folder in the Start Menu, run the Database Configuration Utility.
- 10 Enter the username and password for the new SQL login and click Connect.
- 11 Restart IIS.

Important: After completing the migration to a limited permissions model, we highly recommend you create new backups for each of the application databases. Database backups created prior to this event can no longer be restored using the main WhatsUp Gold application and after restoration, the SQL login used by WhatsUp Gold must be re-assigned to the dbo user in the databases. Database backups made after this event can be restored using the main WhatsUp Gold application and will not require modifications to the dbo user.

Limited Rights: Denying access to other databases

Optionally, once the databases have been properly provisioned, you may set the DENY VIEW ANY DATABASE permission for the SQL login. This will prevent the login from seeing databases to which he/she has not been specifically granted access. It is important to note that even if the VIEW ANY DATABASE permission has not been revoked, a login cannot access a database without being mapped to a user within the database unless that login has administrator rights to the instance. Consequently, removing the VIEW ANY DATABASE permission only hides databases to which the login had no permissions anyway.

The login will still have access to the master and tempdb databases on any securable visible to the public database role. Access to tempdb should not be removed as this is required for many of our SQL procedures. Many security-conscious database administrators often remove access from certain views, functions, and stored procedures for public database role from the master database, however it is recommended that access to the xp_instance_regread extended stored procedure remains accessible as this enables helpful features within the database backup and database upgrade processes. Removing access simply disables these features and will not cause an application failure.

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