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Configure Database Mail

SQL Server 2014 | Other Versions

This topic describes how to enable and configure Database Mail using the Database Mail Configuration Wizard, and create a Database Mail Configuration script using templates.

Before You Begin

Use the **DatabaseMail XPs** option to enable Database Mail on this server. For more information, see Database Mail XPs Server Configuration Option reference topic.

Limitations and Restrictions

Enabling SQL Server Service Broker in any database requires a database lock. If Service Broker was deactivated in **msdb**, to enable Database Mail, first stop SQL Server Agent so Service Broker can obtain the necessary lock.

Security

To configure Database Mail you must be a member of the **sysadmin** fixed server role. To send Database Mail you must be a member of the **DatabaseMailUserRole** database role in the **msdb** database.

Using Database Mail Configuration Wizard

To configure Database Mail using a wizard

1. In Object Explorer, expand the node for the instance you want to configure Database mail.
2. Expand the **Management** node.
3. Tight-click **Database Mail**, and then click **Configure Database Mail**.
4. Complete the Wizard dialogs

Welcome Page

This page describes the steps to configuring Database Mail.

Do not show this page again – Check this to skip this welcome page from displaying in the future.

Next - Proceeds to the **Select a configuration task** page.

Cancel – Terminates the wizard without configuring Database Mail

Cancel Terminates the wizard without configuring Database Mail

Select Configuration Task

Use the **Select Configuration Task** page, to indicate which task you will complete each time you use the wizard. If you change your mind before you complete the wizard, use the **Back** button to return to this page and select a different task.

> **Note**
>
> If Database Mail has not been enabled, you will receive the message: **The Database Mail feature is not available. Would you like to enable this feature?** Responding **Yes**, is equivalent to enabling Database Mail by using the Database Mail XPs option of the **sp_configure** system stored procedure.

Set up Database Mail by performing the following tasks
Perform all of the tasks required to set up Database Mail for the first time. This option includes all of the other three options.

Manage Database Mail accounts and profiles
Create new Database Mail accounts and profiles or to view, change, or delete existing Database Mail accounts and profiles.

Manage profile security
Configure which users have access to Database Mail profiles.

View or change system parameters
Configure Database Mail system parameters such as the maximum file size for attachments.

New Account Page

Use this page to create a new Database Mail account. A Database Mail account contains information for sending e-mail to an SMTP server.

A Database Mail account contains the information that SQL Server uses to send e-mail messages to an SMTP server. Each account contains information for one e-mail server.

A Database Mail account is only used for Database Mail. A Database Mail account does not correspond to a SQL Server account or a Microsoft Windows account. Database Mail can be sent using the credentials of the SQL Server Database Engine, using other credentials that you supply, or anonymously. When using basic authentication, the user name and password in a Database Mail account are only used for authentication with the e-mail server. An account need not correspond to a SQL Server user or a user on the computer running SQL Server.

Account name
Type the name of the new account.

Description
Type a description of the account. The description is optional.

E-mail address
Type the name of the e-mail address for the account. This is the e-mail address that e-mail is sent from. For example, an account for SQL Server Agent may send e-mail from the address SqlAgent@Adventure-Works.com.

Display name
Type the name to show on e-mail messages sent from this account. The display name is optional. This is the name displayed on messages sent from this account. For example, an account for SQL Server Agent may display the name "SQL Server Agent Automated Mailer" on e-mail messages.

Reply e-mail
Type the e-mail address that will be used for replies to e-mail messages sent from this account. The reply e-mail is optional. For example, replies to an account for SQL Server Agent may go to the database administrator, danw@Adventure-Works.com.

Server name

Type the name or IP address of the SMTP server the account uses to send e-mail. Typically this is in a format similar to `smtp.`*<your_company>*`.com`. For help with this, consult your mail administrator.

Port number
Type the port number of the SMTP server for this account. Most SMTP servers use port 25.

This server requires a secure connection (SSL)
Encrypts communication using Secure Sockets Layer.

Windows Authentication using Database Engine service credentials
Connection is made to the SMTP server using the credentials configured for the SQL Server Database Engine service.

Basic Authentication
Specify the user name and password required by the SMTP server.

User name
Type the user name that Database Mail uses to log in to the SMTP server. The user name is required if the SMTP server requires basic authentication.

Password
Type the password that Database Mail uses to log in to the SMTP server. The password is required if the SMTP server requires basic authentication.

Confirm password
Type the password again to confirm the password. The password is required if the SMTP server requires basic authentication.

Anonymous authentication
Mail is sent to the SMTP server without login credentials. Use this option when the SMTP server does not require authentication.

Manage Existing Account Page

Use this page to manage an existing Database Mail account.

Account name
Select the account to view, update or delete.

Delete
Delete the selected account. You must remove this account from associated profiles, or delete such profiles, before you delete the selected account.

Description
View or update the description of the account. The description is optional.

E-mail address
View or update the name of the e-mail address for the account. This is the e-mail address that e-mail is sent from. For example, an account for Microsoft SQL Server Agent may send e-mail from the address **SqlAgent@Adventure-Works.com**.

Display name
View or update the name to show on e-mail messages sent from this account. The display name is optional. This is the name displayed on messages sent from this account. For example, an account for SQL Server Agent may display the name **SQL Server Agent Automated Mailer** on e-mail messages.

Reply e-mail
View or update the e-mail address that will be used for replies to e-mail messages sent from this account. The reply e-mail is optional. For example, replies to an account for SQL Server Agent may go to the database administrator, **danw@Adventure-Works.com**.

Server name
View or update the name of the SMTP server the account uses to send e-mail. Typically this is in a format similar to **smtp.<your_company>.com**. For help with this, consult your mail administrator.

Port number

Port number
View or update the port number of the SMTP server for this account. Most SMTP servers use port 25.

This server requires a secure connection (SSL)
Encrypts communication using Secure Sockets Layer.

Windows Authentication using Database Engine service credentials
Connection is made to the SMTP server using the credentials configured for the SQL Server Database Engine service.

Basic Authentication
Specify the user name and password required by the SMTP server.

User name
View or update the user name that Database Mail uses to log in to the SMTP server. The user name is required if the SMTP server requires basic authentication.

Password
Change the password that Database Mail uses to log in to the SMTP server. The password is required if the SMTP server requires basic authentication.

Confirm password
Type the password again to confirm the password. The password is required if the SMTP server requires basic authentication.

Anonymous authentication
Mail is sent to the SMTP server without login credentials. Use this option when the SMTP server does not require authentication.

New Profile Page

Use this page to create a Database Mail profile. A Database Mail profile is a collection of Database Mail accounts. Profiles improve reliability in cases where an e-mail server becomes unreachable, by providing alternative Database Mail accounts. At least one Database Mail account is required. For more information about setting the priority of Database Mail accounts in the profile, see Create a Database Mail Profile.

Use the **Move Up** and **Move Down** buttons to change the order in which Database Mail accounts are used. This order is determined by a value called the sequence number. **Move Up** lowers the sequence number and **Move Down** increases the sequence number. The sequence number determines the order in which Database Mail uses accounts in the profile. For a new e-mail message, Database Mail starts with the account that has the lowest sequence number. Should that account fail, Database Mail uses the account with the next highest sequence number, and so on until either Database Mail sends the message successfully, or the account with the highest sequence number fails. If the account with the highest sequence number fails, the Database Mail pauses attempts to send the mail for the amount of time configured in the Database Mail **AccountRetryDelay** parameter, then starts the process of attempting to send the mail again, starting with the lowest sequence number. Use the Database Mail **AccountRetryAttempts** parameter, to configure the number of times that the external mail process attempts to send the e-mail message using each account in the specified profile. You can configure the **AccountRetryDelay** and **AccountRetryAttempts** parameters on the **Configure System Parameters** page of the Database Mail Configuration Wizard.

Profile name
Type the name for the new profile. The profile is created with this name. Do not use the name of an existing profile.

Description
Type a description for the profile. The description is optional.

SMTP accounts
Choose one or more accounts for the profile. The priority sets the order in which Database Mail uses the accounts. If no accounts are listed, you must click **Add** to continue, and add a new SMTP account.

Add
Add an account to the profile.

Remove
Remove the selected account from the profile.

Move Up

Increase the priority of the selected account.

Move Down
Decrease the priority of the selected account.

Manage Existing Profile Page

Use this page to manage an existing Database Mail profile. A Database Mail profile is a collection of Database Mail accounts. Profiles improve reliability in cases where an e-mail server becomes unreachable, by providing alternative Database Mail accounts. At least one Database Mail account is required. For more information about setting the priority of Database Mail accounts in the profile, see Create a Database Mail Profile.

Use the **Move Up** and **Move Down** buttons to change the order in which Database Mail accounts are used. This order is determined by a value called the sequence number. **Move Up** lowers the sequence number and **Move Down** increases the sequence number. The sequence number determines the order in which Database Mail uses accounts in the profile. For a new e-mail message, Database Mail starts with the account that has the lowest sequence number. Should that account fail, Database Mail uses the account with the next highest sequence number, and so on until either Database Mail sends the message successfully, or the account with the highest sequence number fails. If the account with the highest sequence number fails, the Database Mail pauses attempts to send the mail for the amount of time configured in the Database Mail **AccountRetryDelay** parameter, then starts the process of attempting to send the mail again, starting with the lowest sequence number. Use the Database Mail **AccountRetryAttempts** parameter, to configure the number of times that the external mail process attempts to send the e-mail message using each account in the specified profile. You can configure the **AccountRetryDelay** and **AccountRetryAttempts** parameters on the **Configure System Parameters** page of the Database Mail Configuration Wizard.

Profile name
Select the name of the profile to manage.

Delete
Delete the selected profile. You will be prompted to select **Yes** to delete the selected profile and to fail any unsent messages, or to select **No** to delete the selected profile only if there are no unsent messages.

Description
View or change the description of the selected profile. The description is optional.

SMTP accounts
Choose one or more accounts for the profile. The failover priority sets the order in which Database Mail uses the account in case of a failover.

Add
Add an account to the profile.

Remove
Remove the selected account from the profile.

Move Up
Increase the failover priority of the selected account.

Move Down
Decrease the failover priority of the selected account.

Priority
View the current failover priority of the account.

Account name
View the name of the account.

E-mail Address
View the e-mail address of the account.

Add Account to Profile Page

Use this page to choose the account to add to the profile. Either choose an existing account from the **Account name** box, or click

New Account.

Account name
Select the name of the account to add to the profile.

E-mail address
View the e-mail address for the selected account. You cannot change the e-mail address from this page. To change the e-mail address for the account, go back to the main page of the wizard and select the **Manage Database Mail accounts and profiles** option.

Server name
View the mail server name for the selected account. You cannot change the server name from this page. To change the server name for the account, go back to the main page of the wizard and select the **Manage Database Mail accounts and profiles** option.

New Account
Create a new account.

Manage Accounts and Profiles Page

Use this page to choose a task for managing a profile or account.

Create a new account
Create a new account.

View, change or delete an existing account
Manage or delete an existing account.

Create a new profile
Create a new profile.

View, change or delete an existing profile. You can also manage accounts associated with the profile.
Update or delete an existing profile. This option also allows you to manage accounts associated with the profile.

Manage Profile Security, Public Tab

Use this page to configure a public profile.

Profiles are either public or private. A private profile is accessible only to specific users or roles. A public profile allows any user or role with access to the mail host database (**msdb**) to send e-mail using that profile.

A profile may be a default profile. In this case, users or roles can send e-mail using the profile without explicitly specifying the profile. If the user or role sending the e-mail message has a default private profile, Database Mail uses that profile. If the user or role has no default private profile, **sp_send_dbmail** uses the default public profile for the **msdb** database. If there is no default private profile for the user or role and no default public profile for the database, **sp_send_dbmail** returns an error. Only one profile can be marked as the default profile.

Public
Select this option to make the specified profile public.

Profile Name
Displays the name of the profile.

Default Profile
Select this option to make the specified profile the default profile.

Show only existing public profiles
Select this option to show only public profiles in the specified database.

Manage Profile Security, Private Tab

Use this page to configure a private profile.

Profiles are either public or private. A private profile is accessible only to specific users or roles. A public profile allows any user or role with access to the mail host database (**msdb**) to send e-mail using that profile.

A profile may be a default profile. In this case, users or roles can send e-mail using the profile without explicitly specifying the profile. If the user or role sending the e-mail message has a default private profile, Database Mail uses that profile. If the user or role has no default private profile, **sp_send_dbmail** uses the default public profile for the **msdb** database. If there is no default private profile for the user or role and no default public profile for the database, **sp_send_dbmail** returns an error.

User name
Select the name of a user or role in the **msdb** database.

Access
Select whether the user or role has access to the specified profile.

Profile name
View the name of the profile.

Is Default Profile
Select whether the profile is the default profile for the user or role. Each user or role may have only one default profile.

Show only existing private profiles for this user
Select this option to display only profiles that the specified user or role already has access to.

Configure System Parameters

Use this page to specify Database Mail system parameters. View the system parameters and the current value of each parameter. Select a parameter to view a short description in the information pane.

Account Retry Attempts
The number of times that the external mail process attempts to send the e-mail message using each account in the specified profile.

Account Retry Delay (seconds)
The amount of time, in seconds, for the external mail process to wait after it tries to deliver a message using all accounts in the profile before it attempts all accounts again.

Maximum File Size (Bytes)
The maximum size of an attachment, in bytes.

Prohibited Attachment File Extensions
A comma-separated list of extensions which cannot be sent as an attachment to an e-mail message. Click the browse button (**...**) to add additional extensions.

Database Mail Executable Minimum Lifetime (seconds)
The minimum amount of time, in seconds, that the external mail process remains active. The process remains active as long as there are e-mails in the Database Mail queue. This parameter specifies the time the process remains active if there are no messages to process.

Logging level
Specify which messages are recorded in the Database Mail log. Possible values are:

- Normal - logs only errors
- Extended - logs errors, warnings, and informational messages
- Verbose - logs errors, warnings, informational messages, success messages, and additional internal messages. Use verbose logging for troubleshooting.

Default value is Extended.

Reset All