



We use optional cookies to improve your experience on our websites, such as through social media connections, and to display personalized advertising based on your online activity. If you reject optional cookies, only cookies necessary to provide you the services will be used. You may change your selection by clicking "Manage Cookies" at the bottom of the page.
[Privacy Statement](#) [Third-Party Cookies](#)

Accept

Reject

Manage cookies

Microsoft Ignite

Nov 19–22, 2024

Register now >



Send-MailMessage

Reference

[Feedback](#)

Module: [Microsoft.PowerShell.Utility](#)

In this article

[Syntax](#)

[Description](#)

[Examples](#)

[Parameters](#)

[Show 4 more](#)

Sends an email message.


Syntax

```
Send-MailMessage
    [-Attachments <String[]>]
    [-Bcc <String[]>]
    [[-Body] <String>]
    [-BodyAsHtml]
    [-Encoding <Encoding>]
    [-Cc <String[]>]
    [-DeliveryNotificationOption
<DeliveryNotificationOptions>]
    -From <String>
    [[-SmtpServer] <String>]
    [-Priority <MailPriority>]
    [-ReplyTo <String[]>]
    [[-Subject] <String>]
    [-To] <String[]>
    [-Credential <PSCredential>]
    [-UseSsl]
    [-Port <Int32>]
    [<CommonParameters>]
```

Description

The `Send-MailMessage` cmdlet sends an email message from within PowerShell.

You must specify a Simple Mail Transfer Protocol (SMTP) server or the `Send-MailMessage` command fails. Use the **SmtpServer** parameter or set the `$PSEmailServer` variable to a valid SMTP server. The value assigned to `$PSEmailServer` is the default SMTP setting for PowerShell. For more information, see [about_Preference_Variables](#).

 **Warning**

The `Send-MailMessage` cmdlet is obsolete. This cmdlet doesn't guarantee secure connections to SMTP servers. While there is no immediate replacement available in PowerShell, we recommend you do not use `Send-MailMessage`. For more information, see [Platform Compatibility note DE0005](#).

Examples

Example 1: Send an email from one person to another person

This example sends an email message from one person to another person.

The **From**, **To**, and **Subject** parameters are required by `Send-MailMessage`. This example uses the default `$PSEmailAddress` variable for the SMTP server, so the **SmtpServer** parameter is not needed.

```
$sendMailMessageSplat = @{  
    From = 'User01 <user01@fabrikam.com>  
    To = 'User02 <user02@fabrikam.com>  
    Subject = 'Test mail'  
}  
Send-MailMessage @sendMailMessageSplat
```

The `Send-MailMessage` cmdlet uses the **From** parameter to specify the message's sender. The **To** parameter specifies the message's recipient. The **Subject** parameter uses the text string **Test mail** as the message because the optional **Body** parameter isn't included.

Example 2: Send an attachment

This example sends an email message with an attachment.

```
$sendMailMessageSplat = @{  
    From = 'User01 <user01@fabrikam.com>'  
    To = 'User02 <user02@fabrikam.com>', 'User03 <user03@fabrikam.com>'  
    Subject = 'Sending the Attachment'  
    Body = "Forgot to send the attachment. Sending now."  
    Attachments = '.\data.csv'  
    Priority = 'High'  
    DeliveryNotificationOption = 'OnSuccess', 'OnFailure'  
    SmtpServer = 'smtp.fabrikam.com'  
}  
Send-MailMessage @sendMailMessageSplat
```

The `Send-MailMessage` cmdlet uses the **From** parameter to specify the message's sender. The **To** parameter specifies the message's recipients. The **Subject** parameter describes the content of the message. The **Body** parameter is the content of the message.

The **Attachments** parameter specifies the file in the current directory that's attached to the email message. The **Priority** parameter sets the message to `High` priority. The **DeliveryNotificationOption** parameter specifies two values, `OnSuccess` and `OnFailure`. The sender will receive email notifications to confirm the success or failure of the message delivery. The **SmtpServer** parameter sets the SMTP server to `smtp.fabrikam.com`.

Example 3: Send email to a mailing list

This example sends an email message to a mailing list.

```
$sendMailMessageSplat = @{  
    From = 'User01 <user01@fabrikam.com>'  
    To = 'ITGroup <itdept@fabrikam.com>'  
    Cc = 'User02 <user02@fabrikam.com>'  
    Bcc = 'ITMgr <itmgr@fabrikam.com>'  
    Subject = "Don't forget today's meeting!"  
    Credential = 'domain01\admin01'
```

```
UseSsl = $true
}
Send-MailMessage @sendMailMessageSplat
```

The `Send-MailMessage` cmdlet uses the **From** parameter to specify the message's sender. The **To** parameter specifies the message's recipients. The **Cc** parameter sends a copy of the message to the specified recipient. The **Bcc** parameter sends a blind copy of the message. A blind copy is an email address that's hidden from the other recipients. The **Subject** parameter is the message because the optional **Body** parameter isn't included.

The **Credential** parameter specifies a domain administrator's credentials are used to send the message. The **UseSsl** parameter specifies that Secure Socket Layer (SSL) creates a secure connection.

Parameters

-Attachments

Specifies the path and file names of files to be attached to the email message. You can use this parameter or pipe the paths and file names to `Send-MailMessage`.

 Expand table

Type:	String[]
Aliases:	PsPath
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Bcc

Specifies the email addresses that receive a copy of the mail but aren't listed as recipients of the message. Enter names (optional) and the email address, such as `Name <someone@fabrikam.com>`.

 Expand table

Type:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Body


Specifies the content of the email message.

 Expand table

Type:	String
Position:	2
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-BodyAsHtml

Specifies that the value of the **Body** parameter contains HTML.

 Expand table

Type:	SwitchParameter
Aliases:	BAH
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Cc

Specifies the email addresses to which a carbon copy (CC) of the email message is sent. Enter names (optional) and the email address, such as `Name <someone@fabrikam.com>`.

 Expand table

Type:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Credential

Specifies a user account that has permission to perform this action. The default is the current user.

Type a user name, such as **User01** or **Domain01\User01**. Or, enter a **PSCredential** object, such as one from the `Get-Credential` cmdlet.

Credentials are stored in a **PSCredential** object and the password is stored as a **SecureString**.

ⓘ **Note**

For more information about **SecureString** data protection, see [How secure is SecureString?](#).

⌵ Expand table

Type:	PSCredential
Position:	Named
Default value:	Current user
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DeliveryNotificationOption

Specifies the delivery notification options for the email message. You can specify multiple values. None is the default value. The alias for this parameter is **DNO**.

The delivery notifications are sent to the address in the **From** parameter.

The acceptable values for this parameter are as follows:

- `None`: No notification.
- `OnSuccess`: Notify if the delivery is successful.
- `OnFailure`: Notify if the delivery is unsuccessful.

- `Delay`: Notify if the delivery is delayed.
- `Never`: Never notify.

These values are defined as a flag-based enumeration. You can combine multiple values together to set multiple flags using this parameter. The values can be passed to the **DeliveryNotification** parameter as an array of values or as a comma-separated string of those values. The cmdlet will combine the values using a binary-OR operation. Passing values as an array is the simplest option and also allows you to use tab-completion on the values.

 Expand table

Type:	<code>DeliveryNotificationOptions</code>
Aliases:	<code>DNO</code>
Accepted values:	<code>None</code> , <code>OnSuccess</code> , <code>OnFailure</code> , <code>Delay</code> , <code>Never</code>
Position:	<code>Named</code>
Default value:	<code>None</code>
Required:	<code>False</code>
Accept pipeline input:	<code>True</code>
Accept wildcard characters:	<code>False</code>

-Encoding

Specifies the type of encoding for the target file. The default value is `utf8NoBOM`.

The acceptable values for this parameter are as follows:

- `ascii`: Uses the encoding for the ASCII (7-bit) character set.
- `ansi`: Uses the encoding for the for the current culture's ANSI code page. This option was added in PowerShell 7.4.


- `bigendianunicode`: Encodes in UTF-16 format using the big-endian byte order.
- `bigendianutf32`: Encodes in UTF-32 format using the big-endian byte order.
- `oem`: Uses the default encoding for MS-DOS and console programs.
- `unicode`: Encodes in UTF-16 format using the little-endian byte order.
- `utf7`: Encodes in UTF-7 format.
- `utf8`: Encodes in UTF-8 format.
- `utf8BOM`: Encodes in UTF-8 format with Byte Order Mark (BOM)
- `utf8NoBOM`: Encodes in UTF-8 format without Byte Order Mark (BOM)
- `utf32`: Encodes in UTF-32 format.

Beginning with PowerShell 6.2, the **Encoding** parameter also allows numeric IDs of registered code pages (like `-Encoding 1251`) or string names of registered code pages (like `-Encoding "windows-1251"`). For more information, see the .NET documentation for [Encoding.CodePage](#).

Starting with PowerShell 7.4, you can use the `Ansi` value for the **Encoding** parameter to pass the numeric ID for the current culture's ANSI code page without having to specify it manually.

ⓘ Note

UTF-7* is no longer recommended to use. As of PowerShell 7.1, a warning is written if you specify `utf7` for the **Encoding** parameter.

 Expand table

Type:	Encoding
Aliases:	BE
Accepted values:	ASCII, BigEndianUnicode, BigEndianUTF32, OEM, Unicode, UTF7, UTF8, UTF8BOM, UTF8NoBOM, UTF32
Position:	Named
Default value:	ASCII
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-From

The **From** parameter is required. This parameter specifies the sender's email address. Enter a name (optional) and email address, such as `Name <someone@fabrikam.com>`.

 Expand table

Type:	String
Position:	Named
Default value:	None
Required:	True
Accept pipeline input:	True
Accept wildcard characters:	False

-Port

Specifies an alternate port on the SMTP server. The default value is 25, which is the default SMTP port.

 Expand table

Type:	Int32
Position:	Named
Default value:	25
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Priority

Specifies the priority of the email message. Normal is the default. The acceptable values for this parameter are Normal, High, and Low.

 Expand table


Type:	MailPriority
Accepted values:	Normal, High, Low
Position:	Named
Default value:	Normal
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-ReplyTo

Specifies additional email addresses (other than the From address) to use to reply to this message. Enter names (optional) and the

email address, such as `Name <someone@fabrikam.com>`.

This parameter was introduced in PowerShell 6.2.

 Expand table

Type:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-SmtpServer

Specifies the name of the SMTP server that sends the email message.

The default value is the value of the `$PSEmailServer` preference variable. If the preference variable isn't set and this parameter isn't used, the `Send-MailMessage` command fails.

 Expand table

Type:	String
Aliases:	ComputerName
Position:	3
Default value:	\$PSEmailServer
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Subject

The **Subject** parameter isn't required. This parameter specifies the subject of the email message.

 Expand table

Type:	String
Aliases:	sub
Position:	1
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-To

The **To** parameter is required. This parameter specifies the recipient's email address. Enter names (optional) and the email address, such as `Name <someone@fabrikam.com>`.

 Expand table

Type:	String[]
Position:	0
Default value:	None
Required:	True
Accept pipeline input:	True
Accept wildcard characters:	False

-UseSsl

The Secure Sockets Layer (SSL) protocol is used to establish a secure connection to the remote computer to send mail. By default, SSL isn't used.

 Expand table

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

Inputs

String

You can pipe the path and file names of attachments to this cmdlet.

Outputs

None

This cmdlet returns no output.

Notes

The `Send-MailMessage` cmdlet is obsolete. For more information, see [Platform Compatibility note DE0005](#). This cmdlet doesn't guarantee secure connections to SMTP servers.

DE0005 suggests using the third-party library, [MailKit](#). If you are using Exchange Online, you can use the [Send-MgUserMail](#) from the

Microsoft Graph PowerShell SDK.

Related Links

- [about_Preference_Variables](#)
- [Get-Credential](#)


Collaborate with us on GitHub


The source for this content can be found on GitHub, where you can also create and review issues and pull requests. For more information, see [our contributor guide](#).




PowerShell feedback



PowerShell is an open source project. Select a link to provide feedback:

 [Open a documentation issue](#)

 [Provide product feedback](#)

 English (United States)

 Your Privacy Choices


 Theme 

[Manage cookies](#)


[Previous Versions](#)

[Blog](#) 

[Contribute](#)

[Privacy](#) 

[Terms of Use](#)

[Trademarks](#) 

© Microsoft 2024