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**Send-MailMessage**

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# Send-MailMessage

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Sends an email message.

## Syntax

PowerShell  Copy

```
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The `Send-MailMessage` cmdlet is obsolete.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 `$PSEmailServer` variable for the SMTP server, so the **SmtpServer** parameter is not needed.

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```
$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.

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```
$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.

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```
$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:	DeliveryNotificationOptions
Aliases:	DNO
Accepted values:	None, OnSuccess, OnFailure, Delay, Never
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

### -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](#)



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