PowerShell Get-Help on command 'Get-CmsMessage'

PS C:\Users\wahid> Get-Help Get-CmsMessage

```
NAME
    Get-CmsMessage

SYNOPSIS
    Gets content that has been encrypted by using the Cryptographic Message Syntax
    format.


SYNTAX
    Get-CmsMessage [-Content] <System.String> [<CommonParameters>]

    Get-CmsMessage [-LiteralPath] <System.String> [<CommonParameters>]

    Get-CmsMessage [-Path] <System.String> [<CommonParameters>]


DESCRIPTION
    The `Get-CmsMessage` cmdlet gets content that has been encrypted using the
    Cryptographic Message Syntax (CMS) format.

    The CMS cmdlets support encryption and decryption of content using the IETF
```

format for cryptographically protecting messages, as documented by RFC5652 (https://tools.ietf.org/html/rfc5652).

The CMS encryption standard uses public key cryptography, where the keys used to encrypt content (the public key) and the keys used to decrypt content (the private key) are separate. Your public key can be shared widely, and is not sensitive data. If any content is encrypted with this public key, only your private key can decrypt it. For more information, see Public-key cryptography (https://en.wikipedia.org/wiki/Public-key_cryptography).

`Get-CmsMessage` gets content that has been encrypted in CMS format. It does not decrypt or unprotect content. You can run this cmdlet to get content that you have encrypted by running the `Protect-CmsMessage` cmdlet. You can specify content that you want to decrypt as a string, or by path to the encrypted content. You can pipe the results of `Get-CmsMessage` to `Unprotect-CmsMessage` to decrypt the content, provided that you have information about the document encryption certificate that was used to encrypt the content.

PARAMETERS

-Content <System.String>

Specifies an encrypted string, or a variable containing an encrypted string.

-LiteralPath <System.String>

Specifies the path to encrypted content that you want to get. Unlike Path , the value of LiteralPath is used exactly as it is typed. No characters are interpreted as wildcard characters. If the path includes escape characters, enclose each one in single quotation marks. Single quotation marks tell PowerShell not to interpret enclosed characters as escape characters.

-Path <System.String>

Specifies the path to encrypted content that you want to decrypt.

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

--------------- Example 1: Get encrypted content ---------------

```
$Msg = Get-CmsMessage -Path
"C:\Users\Test\Documents\PowerShell\Future_Plans.txt"
$Msg.Content
```

```
-----BEGIN CMS-----
MIIBqAYJKoZIhvcNAQcDoIIBmTCCAZUCAQAxggFQMIIBTAIBADA0MCAxHjAcBgNVBAMBFWxlZWhv
bG1AbGljcm9zb2Z0LmNvbQIQQYHsbcXnjIJCtH+OhGmc1DANBgkqhkiG9w0BAQcwAASCAQAnkFHM
proJnFy4geFGfyNmxH3yeoPvwEYzdnsoVqqDPAd8D3wao77z7OhJEXwz9GeFLnxD6djKV/tF4PxR
E27aduKSLbnxfpf/sepZ4fUkuGibnwWFrxGE3B1G26MCenHWjYQiqv+Nq32Gc97qEAERrhLv6S4R
G+2dJEnesW8A+z9QPo+DwYP5FzD0Td0ExrkswVckpLNR6j17Yaags3ltNXmbdEXekhi6Psf2MLMP
TSO79lv2L0KeXFGuPOrdzPRwCkV0vNEqTEBeDnZGrjv/5766bM3GW34FXApod9u+VSFpBnqVOCBA
DVDraA6k+xwBt66cV84AHLkh0kT02SIHMDwGCSqGSIb3DQEHATAdBglghkgBZQMEASoEEJbJaiRl
KMnBoD1dkb/FzSWAEBaL8xkFwCu0e1AtDj7nSJc=
-----END CMS-----
```

This command gets encrypted content located at C:\Users\Test\Documents\PowerShell\Future_Plans.txt.

-- Example 2: Pipe encrypted content to Unprotect-CmsMessage --

```
$Msg = Get-CmsMessage -Path
"C:\Users\Test\Documents\PowerShell\Future_Plans.txt"
$Msg | Unprotect-CmsMessage -To "cn=youralias@emailaddress.com"
```

```
Try the new Break All command
```

This command pipes the results of the `Get-CmsMessage` cmdlet from Example 1 to `Unprotect-CmsMessage`, to decrypt the message and read it in plain text. In this case, the value of the To parameter is the value of the encrypting certificate's Subject line. The decrypted message, "Try the new Break All command," is the result.

REMARKS

To see the examples, type: "get-help Get-CmsMessage -examples".
For more information, type: "get-help Get-CmsMessage -detailed".
For technical information, type: "get-help Get-CmsMessage -full".
For online help, type: "get-help Get-CmsMessage -online"