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## *PowerShell Get-Help on command 'ConvertFrom-SecureString'*

***PS C:\Users\wahid> Get-Help ConvertFrom-SecureString***

NAME

ConvertFrom-SecureString

SYNOPSIS

Converts a secure string to an encrypted standard string.

SYNTAX

ConvertFrom-SecureString [-SecureString] <System.Security.SecureString> [-Key <System.Byte[]>] [<CommonParameters>]

ConvertFrom-SecureString [-SecureString] <System.Security.SecureString> [[-SecureKey] <System.Security.SecureString>] [<CommonParameters>]

DESCRIPTION

The `ConvertFrom-SecureString` cmdlet converts a secure string ( System.Security.SecureString ) into an encrypted standard string ( System.String ). Unlike a secure string, an encrypted standard string can be saved in a file for later use. The encrypted standard string can be converted back to its secure string format by using the `ConvertTo-SecureString` cmdlet.

If an encryption key is specified by using the Key or SecureKey parameters, the Advanced Encryption Standard (AES) encryption algorithm is used. The specified key must have a length of 128, 192, or 256 bits because those are the key lengths supported by the AES encryption algorithm. If no key is specified, the Windows Data Protection API (DPAPI) is used to encrypt the standard string representation.

PARAMETERS

-Key <System.Byte[]>

Specifies the encryption key as a byte array.

-SecureKey <System.Security.SecureString>

Specifies the encryption key as a secure string. The secure string value is converted to a byte array before being used as the key.

-SecureString <System.Security.SecureString>

Specifies the secure string to convert to an encrypted standard string.

<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: Create a secure string ----------

$SecureString = Read-Host -AsSecureString

This command creates a secure string from characters that you type at the command prompt. After entering the command, type the string you want to store as a secure string. An asterisk (`*`) is displayed to represent each character

that you type.

Example 2: Convert a secure string to an encrypted standard string

$StandardString = ConvertFrom-SecureString $SecureString

This command converts the secure string in the `$SecureString` variable to an encrypted standard string. The resulting encrypted standard string is stored in the `$StandardString` variable.

Example 3: Convert a secure string to an encrypted standard string with a 192-bit key

$Key = (3,4,2,3,56,34,254,222,1,1,2,23,42,54,33,233,1,34,2,7,6,5,35,43)
$StandardString = ConvertFrom-SecureString $SecureString -Key $Key

These commands use the Advanced Encryption Standard (AES) algorithm to convert the secure string stored in the `$SecureString` variable to an encrypted standard string with a 192-bit key. The resulting encrypted standard string is stored in the `$StandardString` variable.

The first command stores a key in the `$Key` variable. The key is an array of 24 decimal numerals, each of which must be less than 256 to fit within a single unsigned byte.

Because each decimal numeral represents a single byte (8 bits), the key has 24 digits for a total of 192 bits (8 x 24). This is a valid key length for the AES algorithm.

The second command uses the key in the `$Key` variable to convert the secure string to an encrypted standard string.

REMARKS

To see the examples, type: "get-help ConvertFrom-SecureString -examples".
For more information, type: "get-help ConvertFrom-SecureString -detailed".
For technical information, type: "get-help ConvertFrom-SecureString -full".

For online help, type: "get-help ConvertFrom-SecureString -online"