Windows PowerShell Get-Help on Cmdlet 'Initialize-Tpm'

PS:\>Get-HELP Initialize-Tpm -Full

NAME

   Initialize-Tpm

SYNOPSIS

   Performs part of the provisioning process for a TPM.

SYNTAX

   Initialize-Tpm [[-AllowClear]] [[-AllowPhysicalPresence]] [<CommonParameters>]

DESCRIPTION

   The Initialize-Tpm cmdlet performs part of the provisioning process for a Trusted Platform Module (TPM). Provisioning is

the process of preparing a TPM to be used.

   You may need to perform other steps to fully provision a TPM.

      For   more   information   on   TPM,   see   the   Trusted   Platform   Module   Technology   Overview

(https://technet.microsoft.com/en-us/library/jj131725.aspx)in the Technet library.

PARAMETERS

  -AllowClear [<SwitchParameter>]

    Indicates that the provisioning process clears the TPM, if necessary, to move the TPM closer to complying with latest

Windows standards.

    Required?   false

    Position?   1

    Default value   False

    Accept pipeline input?   False

    Accept wildcard characters? false

  -AllowPhysicalPresence [<SwitchParameter>]

    Indicates that the provisioning process may send physical presence commands that require a user to be present in

order to continue.

    Required?   false

    Position?   2

    Default value   False

    Accept pipeline input?   False

    Accept wildcard characters? false

  <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).

INPUTS

  SwitchParameter

OUTPUTS

TpmProvisioningObject

This cmdlet returns a TpmProvisioningObject object that includes the following information:

- TpmReady. Whether the TPM is complies with latest Windows standards.

- RestartRequired. Whether the computer requires a restart to continue the provisioning process.

- ShutdownRequired. Whether the computer must be shut down to continue the provisioning process.

- ClearRequired. If this has a value of True, you must import an owner authorization value or remove the owner authorization value.

- PhysicalPresenceRequired. Whether a person must be at the computer during restart to continue the provisioning process.

NOTES

----------------- Example 1: Initialize a TPM -----------------

PS C:\> Initialize-Tpm -AllowClear -AllowPhysicalPresence

TpmReady   : False

RestartRequired   : True

ShutdownRequired   : False

ClearRequired   : True

PhysicalPresenceRequired : True

This command initializes a TPM. The AllowClear parameter means that a TPM owner authorization value stored in the registry is used to clear the TPM if the TPM is

configured to accept TPM_OwnerClear commands. The AllowPhysicalPresence parameter means that the cmdlet is

allowed to issue a clear request which must be confirmed

by a physical present user during the next restart.

The cmdlet returns an object with information about the state of the provisioning process.

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/trustedplatformmodule/initialize-tpm?view=windowsserver2022-ps&wt.mc_id=

ps-gethelp

Clear-Tpm

Get-Tpm

Unblock-Tpm