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Windows PowerShell Get-Help on Cmdlet 'Update-DscConfiguration'

PS:\>Get-HELP Update-DscConfiguration -Full

NAME

Update-DscConfiguration

SYNOPSIS

Checks the pull server for an updated configuration and applies it.

SYNTAX

```
Update-DscConfiguration -CimSession <Microsoft.Management.Infrastructure.CimSession[]> [-JobName  
<System.String>] [-ThrottleLimit <System.Int32>] [-Wait] [-Confirm]  
[-WhatIf] [<CommonParameters>]
```

```
Update-DscConfiguration [[-ComputerName] <System.String[]>] [-Credential  
<System.Management.Automation.PSCredential>] [-JobName <System.String>] [-ThrottleLimit  
<System.Int32>] [-Wait] [-Confirm] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The `Update-DscConfiguration` cmdlet connects to a pull server, downloads the configuration if it differs from what is current on the node, and then applies the

configuration to the computer.

This cmdlet is available only as part of the November 2014 update rollup for Windows RT 8.1, Windows 8.1, and Windows Server 2012 R2

(<https://support.microsoft.com/kb/3000850>).

PARAMETERS

-CimSession <Microsoft.Management.Infrastructure.CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a New-CimSession

(/powershell/module/cimcmdlets/new-cimsession)or Get-CimSession

(/powershell/module/cimcmdlets/get-cimsession)cmdlet. The default is the current session on the local computer.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-ComputerName <System.String[]>

Specifies an array of computer names. The cmdlet applies the configuration settings to the computers that this parameter specifies.

Required? false

Position? 1

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Credential <System.Management.Automation.PSCredential>

Specifies a user name and password, as a PSCredential object, for the target computer. To obtain a PSCredential

object, use the `Get-Credential` cmdlet. For more information, type `Get-Help Get-Credential`.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-JobName <System.String>

Specifies a friendly name for a job. If you specify this parameter, the cmdlet runs as a job, and it returns a Job object.

By default, Windows PowerShell assigns the name JobN where N is an integer.

If you specify the Wait parameter, do not specify this parameter.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-ThrottleLimit <System.Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then

Windows PowerShell calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit

applies only to the current cmdlet, not to the session or to the computer.

Required? false
Position? named
Default value None
Accept pipeline input? False

Accept wildcard characters? false

-Wait <System.Management.Automation.SwitchParameter>

Indicates that the cmdlet blocks the console until it finishes all configuration tasks.

If you specify this parameter, do not specify the JobName parameter.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

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ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkId=113216>).

INPUTS

OUTPUTS

NOTES

----- Example 1: Update a configuration -----

Update-DscConfiguration -Wait -Verbose

After running this command, the server will connect to the registered pull service, download the latest assigned configuration, and then apply it. The Wait and

Verbose parameters are optional. When working interactively, these parameters combined enable real-time feedback about progress and success or failure when applying the configuration.

Example 2: Update a configuration by connecting over a CIM session

```
$Session = New-CimSession -ComputerName "Server01" -Credential ACCOUNTS\PattiFuller  
Update-DscConfiguration -CimSession $Session -Wait
```

The first command creates a CIM session by using the `New-CimSession` cmdlet, and then stores the CimSession object in the `\$Session` variable. The command prompts you for a password. For more information, type `Get-Help New-CimSession`.

The second command updates the computer specified in the CimSession stored in `\$Session`. The command specifies the Wait parameter. The console does not accept

additional commands until the current command finishes.

RELATED LINKS

Online

Version:

https://docs.microsoft.com/powershell/module/psdesiredstateconfiguration/update-dscconfiguration?view=powershell-5.1&WT.mc_id=ps-gethelp

Windows PowerShell Desired State Configuration Overview

[Get-DscConfiguration](#)

[Get-DscConfigurationStatus](#)

[Restore-DscConfiguration](#)

[Start-DscConfiguration](#)

[Stop-DscConfiguration](#)

[Test-DscConfiguration](#)