



Windows PowerShell Get-Help on Cmdlet 'Invoke-AzVMInstallPatch'

PS:\>Get-HELP Invoke-AzVMInstallPatch -Full

NAME

Invoke-AzVMInstallPatch

SYNOPSIS

Installs patches on the VM

SYNTAX

```
Invoke-AzVMInstallPatch [-AsJob] [-ClassificationToIncludeForLinux <System.String[]>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Linux
-MaximumDuration <System.String> [-PackageNameMaskToExclude
    <System.String[]>] [-PackageNameMaskToInclude <System.String[]>] -RebootSetting <System.String>
-ResourceGroupName <System.String> -VMName <System.String> [-Confirm]
[-WhatIf] [<CommonParameters>]
```

```
Invoke-AzVMInstallPatch [-AsJob] [-ClassificationToIncludeForLinux <System.String[]>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Linux
-MaximumDuration <System.String> [-PackageNameMaskToExclude
    <System.String[]>] [-PackageNameMaskToInclude <System.String[]>] -RebootSetting <System.String> -ResourceId
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]
```

```

Invoke-AzVMInstallPatch [-VM] <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine> [-AsJob]
[-ClassificationToIncludeForLinux <System.String[]>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Linux
-MaximumDuration <System.String>
[-PackageNameMaskToExclude <System.String[]>] [-PackageNameMaskToInclude <System.String[]>] -RebootSetting
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

```

```

Invoke-AzVMInstallPatch [-AsJob] [-ClassificationToIncludeForWindows <System.String[]>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExcludeKBsRequiringReboot] [-KBNumberToExclude <System.String[]>]
[-KBNumberToInclude <System.String[]>] -MaximumDuration <System.String> -RebootSetting <System.String>
-ResourceGroupName <System.String> -VMName <System.String>
-Windows [-Confirm] [-WhatIf] [<CommonParameters>]

```

```

Invoke-AzVMInstallPatch [-AsJob] [-ClassificationToIncludeForWindows <System.String[]>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExcludeKBsRequiringReboot] [-KBNumberToExclude <System.String[]>]
[-KBNumberToInclude <System.String[]>] -MaximumDuration <System.String> -RebootSetting <System.String>
-ResourceId <System.String> -Windows [-Confirm] [-WhatIf]
[<CommonParameters>]

```

```

Invoke-AzVMInstallPatch [-VM] <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine> [-AsJob]
[-ClassificationToIncludeForWindows <System.String[]>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExcludeKBsRequiringReboot] [-KBNumberToExclude
<System.String[]>] [-KBNumberToInclude <System.String[]>] -MaximumDuration <System.String> -RebootSetting
<System.String> -Windows [-Confirm] [-WhatIf]
[<CommonParameters>]

```

DESCRIPTION

Installs patches on the VM

PARAMETERS

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ClassificationToIncludeForLinux <System.String[]>

The update classifications to select when installing patches. Possible values differ for Windows and Linux.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ClassificationToIncludeForWindows <System.String[]>

The update classifications to select when installing patches. Possible values differ for Windows and Linux.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with Azure.

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

-ExcludeKBsRequiringReboot <System.Management.Automation.SwitchParameter>

Filters out KBs that don't have a reboot behavior of 'NeverReboots' when this is set. This parameter is only available for Windows VM.

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-KBNumberToExclude <System.String[]>

KBs to exclude in the patch operation. This parameter is only available for Windows VM.

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

-KBNumberToInclude <System.String[]>

KBs to include in the patch operation. This parameter is only available for Windows VM.

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

-Linux <System.Management.Automation.SwitchParameter>

For Linux VM

Required?	true
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-MaximumDuration <System.String>

Specifies the maximum amount of time that the operation will run. It must be an ISO 8601-compliant duration string such as PT2H (2 hours).

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

-PackageNameMaskToExclude <System.String[]>

Packages to exclude in the patch operation. Format: packageName_packageVersion. This parameter is only available for Linux VM.

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

-PackageNameMaskToInclude <System.String[]>

Packages to include in the patch operation. Format: packageName_packageVersion. This parameter is only available for Linux VM.

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

-RebootSetting <System.String>

Defines when it is acceptable to reboot a VM during a software update operation.

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

-ResourceGroupName <System.String>

The resource group name.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-ResourceId <System.String>

Resource ID for your virtual machine.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByPropertyName, ByValue)
Accept wildcard characters? false

-VM <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine>

PowerShell Virtual Machine Object

Required?	true
Position?	0
Default value	None
Accept pipeline input?	True (ByPropertyName, ByValue)
Accept wildcard characters?	false

-VMName <System.String>

Virtual Machine name

Required?	true
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Windows <System.Management.Automation.SwitchParameter>

For Windows VM

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

INPUTS

System.String

Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine

OUTPUTS

Microsoft.Azure.Commands.Compute.Automation.Models.PSVirtualMachineInstallPatchesResult

----- Example 1 -----

```
Invoke-AzVmInstallPatch -ResourceGroupName 'MyRG' -VmName 'MyVM' -Windows -RebootSetting 'never'  
-MaximumDuration PT2H -ClassificationToIncludeForWindows Critical
```

This example installs critical patches on the VM.

----- Example 2 -----

```
$myVM = Get-AzVM -ResourceGroupName 'MyRG' -Name 'MyVM'  
Invoke-AzVmInstallPatch -VM $myVM -MaximumDuration "PT90M" -RebootSetting "Always" -Windows  
-ClassificationToIncludeForWindows "Security" -KBNumberToInclude  
"KB1234567", "KB123567" -KBNumberToExclude "KB1234702", "KB1234802" -ExcludeKBsRequiringReboot
```

This example passes a PSVirtualMachine object to '-VM' parameter. It also installs security patches while including and excluding certain KBs by using

'-KBNumberToExclude' and '-KBNumberToInclude'. It also excludes KBs that require reboot by using
'-ExcludeKBsRequiringReboot'.

----- Example 3 -----

```
$myLinuxVM = Get-AzVM -ResourceGroupName 'MyRG' -Name 'MyLinuxVM'  
Invoke-AzVMInstallPatch -ResourceId $myLinuxVM.id -MaximumDuration "PT90M" -RebootSetting "Always" -Linux  
-ClassificationToIncludeForLinux "Security"  
-PackageNameMaskToInclude "package123" -PackageNameMaskToExclude "package567"
```

This example installs certain packages to the Linux VM provided by Resource ID.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.compute/invoke-azvminstallpatch>