



Windows PowerShell Get-Help on Cmdlet 'New-AzDeployment'

PS:\>Get-HELP New-AzDeployment -Full

NAME

New-AzDeployment

SYNOPSIS

Create a deployment at the current subscription scope.

SYNTAX

New-AzDeployment [-AsJob] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-DeploymentDebugLogLevel

<System.String>] -Location <System.String> [-Name <System.String>] [-Pre] [-ProceedIfNoChange] [-QueryString

<System.String>] [-SkipTemplateParameterPrompt] [-Tag

<System.Collections.Hashtable>] -TemplateFile <System.String> [-WhatIfExcludeChangeType <System.String[]>]

[-WhatIfResultFormat {ResourceIdOnly |

FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

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<System.String>] [-SkipTemplateParameterPrompt] [-Tag

<System.Collections.Hashtable>] -TemplateObject <System.Collections.Hashtable> -TemplateParameterFile

<System.String> [-WhatIfExcludeChangeType <System.String[]>]

[-WhatIfResultFormat {ResourceIdOnly | FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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<System.String>] [-SkipTemplateParameterPrompt] [-Tag

<System.Collections.Hashtable>] -TemplateObject <System.Collections.Hashtable> -TemplateParameterUri

<System.String> [-WhatIfExcludeChangeType <System.String[]>]

[-WhatIfResultFormat {ResourceIdOnly | FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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        <System.Collections.Hashtable>] -TemplateParameterFile <System.String> -TemplateUri <System.String>
[-WhatIfExcludeChangeType <System.String[]>] [-WhatIfResultFormat
    {ResourceIdOnly | FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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<System.String>] [-SkipTemplateParameterPrompt] [-Tag
    <System.Collections.Hashtable>] -TemplateParameterFile <System.String> -TemplateSpecId <System.String>
[-WhatIfExcludeChangeType <System.String[]>]
[-WhatIfResultFormat {ResourceIdOnly | FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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<System.String>] [-SkipTemplateParameterPrompt] [-Tag
    <System.Collections.Hashtable>] -TemplateParameterObject <System.Collections.Hashtable> -TemplateUri
<System.String> [-WhatIfExcludeChangeType <System.String[]>]
[-WhatIfResultFormat {ResourceIdOnly | FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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<System.String>] -Location <System.String> [-Name <System.String>] [-Pre] [-ProceedIfNoChange] [-QueryString
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<System.Collections.Hashtable>] -TemplateParameterObject <System.Collections.Hashtable> -TemplateSpecId
<System.String> [-WhatIfExcludeChangeType <System.String[]>]

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<System.String>] -Location <System.String> [-Name <System.String>] [-Pre] [-ProceedIfNoChange] [-QueryString
<System.String>] [-SkipTemplateParameterPrompt] [-Tag

<System.Collections.Hashtable>] -TemplateParameterUri <System.String> -TemplateUri <System.String>
[-WhatIfExcludeChangeType <System.String[]>] [-WhatIfResultFormat

{ResourceIdOnly | FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]

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```
    <System.String>] -Location <System.String> [-Name <System.String>] [-Pre] [-ProceedIfNoChange] [-QueryString
<System.String>] [-SkipTemplateParameterPrompt] [-Tag
    <System.Collections.Hashtable>] -TemplateUri <System.String> [-WhatIfExcludeChangeType <System.String[]>]
[-WhatIfResultFormat {ResourceIdOnly |
    FullResourcePayloads}] [-Confirm] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The New-AzDeployment cmdlet adds a deployment at the current subscription scope. This includes the resources that the deployment requires.

An Azure resource is a user-managed Azure entity. A resource can live in a resource group, like database server, database, website, virtual machine, or Storage account. Or, it can be a subscription level resource, like role definition, policy definition, etc.

To add resources to a resource group, use the New-AzResourceGroupDeployment which creates a deployment at a resource group. The New-AzDeployment cmdlet creates a deployment at the current subscription scope, which deploys subscription level resources.

To add a deployment at subscription, specify the location and a template. The location tells Azure Resource Manager where to store the deployment data. The template is a JSON string that contains individual resources to be deployed. The template includes parameter placeholders for required resources and configurable property values, such as names and sizes.

To use a custom template for the deployment, specify the TemplateFile parameter or TemplateUri parameter. Each template has parameters for configurable properties. To

specify values for the template parameters, specify the TemplateParameterFile parameter or the TemplateParameterObject parameter. Alternatively, you can use the

template parameters that are dynamically added to the command when you specify a template. To use dynamic parameters, type them at the command prompt, or type a minus

sign (-) to indicate a parameter and use the Tab key to cycle through available parameters. Template parameter values that you enter at the command prompt take

precedence over values in a template parameter object or file.

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

-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

-DeploymentDebugLogLevel <System.String>

The deployment debug log level.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Location <System.String>

The location to store deployment data.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

The name of the deployment it's going to create. If not specified, defaults to the template file name when a template file is provided; defaults to the current time when a template object is provided, e.g. "20131223140835".

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Pre <System.Management.Automation.SwitchParameter>

When set, indicates that the cmdlet should use pre-release API versions when automatically determining which version to use.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ProceedIfNoChange <System.Management.Automation.SwitchParameter>

Do not ask for confirmation if there is no changes in the What-If result. Applicable when the -Confirm switch is set.

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

-QueryString <System.String>

The query string (for example, a SAS token) to be used with the TemplateUri parameter. Would be used in case of linked templates

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

-SkipTemplateParameterPrompt <System.Management.Automation.SwitchParameter>

Skips the PowerShell dynamic parameter processing that checks if the provided template parameter contains all necessary parameters used by the template. This

check would prompt the user to provide a value for the missing parameters, but providing the -SkipTemplateParameterPrompt will ignore this prompt and error out

immediately if a parameter was found not to be bound in the template. For non-interactive scripts, -SkipTemplateParameterPrompt can be provided to provide a

better error message in the case where not all required parameters are satisfied.

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

-Tag <System.Collections.Hashtable>

The tags to put on the deployment.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-TemplateFile <System.String>

Local path to the template file. Supported template file type: json and bicep.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateObject <System.Collections.Hashtable>

A hash table which represents the template.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateParameterFile <System.String>

Parameter file to use for the template.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateParameterObject <System.Collections.Hashtable>

A hash table which represents the parameters.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateParameterUri <System.String>

Uri to the template parameter file.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateSpecId <System.String>

Resource ID of the templateSpec to be deployed.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateUri <System.String>

Uri to the template file.

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

-WhatIfExcludeChangeType <System.String[]>

Comma-separated resource change types to be excluded from What-If results. Applicable when the -WhatIf or

-Confirm switch is set.

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

-WhatIfResultFormat <Microsoft.Azure.Management.Resources.Models.WhatIfResultFormat>

The What-If result format.

Required? false
Position? named
Default value None
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.Collections.Hashtable

System.String

OUTPUTS

Microsoft.Azure.Commands.ResourceManager.Cmdlets.SdkModels.PSDeployment

NOTES

Example 1: Use a custom template and parameter file to create a deployment

```
New-AzDeployment -Location "West US" -TemplateFile "D:\Azure\Templates\EngineeringSite.json"
-TemplateParameterFile "D:\Azure\Templates\EngSiteParams.json" -Tag
@{"key1"="value1"; "key2"="value2";}
```

This command creates a new deployment at the current subscription scope by using a custom template and a template file on disk, with defined tags parameter. The

command uses the TemplateFile parameter to specify the template and the TemplateParameterFile parameter to specify a file that contains parameters and parameter values.

Example 2: Deploy a template stored in a non public storage account using a uri and SAS token

```
New-AzDeployment -Location "West US" -TemplateUri "https://example.com/example.json" -QueryString "foo"
```

This command creates a new deployment using the template in TemplateUri which is not public and requires a token parameter to access which would be provided using the

QueryString parameter. Running this command effectively accesses the template using the url `https://example.com/example.json?foo`. This can be used if you want to use a template in a storage account by providing the SAS token as the QueryString

Example 3: Use a custom template object and parameter file to create a deployment

```
$TemplateFileText = [System.IO.File]::ReadAllText("D:\Azure\Templates\EngineeringSite.json")
$TemplateObject = ConvertFrom-Json $TemplateFileText -AsHashtable
New-AzDeployment -Location "West US" -TemplateObject $TemplateObject -TemplateParameterFile
"D:\Azure\Templates\EngSiteParams.json"
```

This command creates a new deployment at the current subscription scope by using a custom template and a template

file on disk that has been converted to an in-memory

hashtable. The first two commands read the text for the template file on disk and convert it to an in-memory hashtable.

The last command uses the `TemplateObject`

parameter to specify this hashtable and the `TemplateParameterFile` parameter to specify a file that contains parameters and parameter values.

--- Example 4: Use a .bicepparam file to create a deployment ---

```
New-AzDeployment -Location "West US" -TemplateParameterFile "./parameters.bicepparam"
```

This command creates a new deployment at the current subscription scope by using a .bicepparam file on disk. The command uses the `TemplateParameterFile` parameter to specify a .bicepparam file.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.resources/new-azdeployment>