



Windows PowerShell Get-Help on Cmdlet 'Test-AzResourceGroupDeployment'

PS:\>Get-HELP Test-AzResourceGroupDeployment -Full

NAME

Test-AzResourceGroupDeployment

SYNOPSIS

Validates a resource group deployment.

SYNTAX

```

Test-AzResourceGroupDeployment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Mode {Incremental |
Complete}] [-Pre] [-QueryString <System.String>] -ResourceGroupName <System.String> [-RollBackDeploymentName
<System.String>] [-RollbackToLastDeployment]
[-SkipTemplateParameterPrompt] -TemplateFile <System.String> [<CommonParameters>]

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<System.String>] [-RollbackToLastDeployment]
[-SkipTemplateParameterPrompt] -TemplateFile <System.String> -TemplateParameterObject
<System.Collections.Hashtable> [<CommonParameters>]

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[-SkipTemplateParameterPrompt] -TemplateObject <System.Collections.Hashtable> -TemplateParameterUri
<System.String> [<CommonParameters>]

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<System.String>] [-RollbackToLastDeployment]
[-SkipTemplateParameterPrompt] -TemplateParameterFile <System.String> -TemplateSpecId <System.String>
[<CommonParameters>]

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<System.String>] [-RollbackToLastDeployment]

[-SkipTemplateParameterPrompt] -TemplateParameterObject <System.Collections.Hashtable> -TemplateUri
<System.String> [<CommonParameters>]

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

[-SkipTemplateParameterPrompt] -TemplateUri <System.String> [<CommonParameters>]

DESCRIPTION

The Test-AzResourceGroupDeployment cmdlet determines whether an Azure resource group deployment template and its parameter values are valid.

PARAMETERS

-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

-Mode <Microsoft.Azure.Management.Resources.Models.DeploymentMode>

Specifies the deployment mode. The acceptable values for this parameter are: - Incremental

- Complete

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Pre <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet considers pre-release API versions when it automatically determines which version to use.

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

-ResourceGroupName <System.String>

Specifies the name of the resource group to test.

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

-RollBackDeploymentName <System.String>

Rollback to the successful deployment with the given name in the resource group, should not be used if -RollbackToLastDeployment is used.

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

Accept wildcard characters? false

-RollbackToLastDeployment <System.Management.Automation.SwitchParameter>

Rollback to the last successful deployment in the resource group, should not be present if -RollBackDeploymentName is used.

Required? false

Position? named

Default value False

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

-TemplateFile <System.String>

Specifies the full path of a 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>

Specifies the full path of a JSON file that contains the names and values of the template parameters.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateParameterObject <System.Collections.Hashtable>

Specifies a hash table of template parameter names and values.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TemplateParameterUri <System.String>

Specifies the URI of a template parameters 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>

Specifies the URI of a template file.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.String

Microsoft.Azure.Management.ResourceManager.Models.DeploymentMode

System.Collections.Hashtable

OUTPUTS

Microsoft.Azure.Commands.ResourceManager.Cmdlets.SdkModels.PSResourceManagerError

NOTES

Example 1: Test deployment with a custom template object and parameter file

```
$TemplateFileText = [System.IO.File]::ReadAllText("D:\Azure\Templates\EngineeringSite.json")
```

```
$TemplateObject = ConvertFrom-Json $TemplateFileText -AsHashtable
```

```
Test-AzResourceGroupDeployment -ResourceGroupName "ContosoEngineering" -TemplateObject $TemplateObject  
-TemplateParameterFile "D:\Azure\Templates\EngSiteParams.json"
```

This command tests a deployment in the given resource group using the an in-memory hashtable created from the given template file and a parameter file.

Example 2: Test deployment via template file and parameter file

```
Test-AzResourceGroupDeployment -ResourceGroupName testRG01 -TemplateFile  
"D:\Azure\Templates\sampleDeploymentTemplate.json" -TemplateParameterFile
```

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"D:\Azure\Templates\sampleDeploymentTemplateParams.json"

This command tests a deployment in the given resource group and resource using the provided template file and a parameter file.

-- Example 3: Use a .bicepparam file to validate a deployment --

```
Test-AzResourceGroupDeployment -ResourceGroupName "myRG1" -TemplateParameterFile "./parameters.bicepparam"
```

This command validates the deployment at the resource group 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/test-azresourcegroupdeployment>

Get-AzResourceGroupDeployment

New-AzResourceGroupDeployment

Remove-AzResourceGroupDeployment

Stop-AzResourceGroupDeployment