

Full credit is given to all the above companies including the Operating System that this PDF file was generated!

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

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

NAME

New-AzRoleDefinition

SYNOPSIS

Creates a custom role in Azure RBAC. Provide either a JSON role definition file or a PSRoleDefinition object as input. First, use the Get-AzRoleDefinition command to

generate a baseline role definition object. Then, modify its properties as required. Finally, use this command to create a custom role using role definition.

SYNTAX

 New-AzRoleDefinition
 [-InputFile]
 <System.String>
 [-DefaultProfile

 <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
 [-SkipClientSideScopeValidation] [<CommonParameters>]

New-AzRoleDefinition [-Role] <Microsoft.Azure.Commands.Resources.Models.Authorization.PSRoleDefinition>

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-SkipClientSideScopeValidation] [<CommonParameters>]

DESCRIPTION

The New-AzRoleDefinition cmdlet creates a custom role in Azure Role-Based Access Control. Provide a role definition as an input to the command as a JSON file or a

PSRoleDefinition object. The input role definition MUST contain the following properties: 1) DisplayName: the name of the custom role 2) Description: a short

description of the role that summarizes the access that the role grants. 3) Actions: the set of operations to which the custom role grants access. Use

Get-AzProviderOperation to get the operation for Azure resource providers that can be secured using Azure RBAC. Following are some valid operation strings: -

"*/read" grants access to read operations of all Azure resource providers. - "Microsoft.Network/*/read" grants access to read operations for all resource types in

the Microsoft.Network resource provider of Azure. - "Microsoft.Compute/virtualMachines/*" grants access to all operations of virtual machines and its child resource

types. 4) AssignableScopes: the set of scopes (Azure subscriptions or resource groups) in which the custom role will be available for assignment. Using

AssignableScopes you can make the custom role available for assignment in only the subscriptions or resource groups that need it, and not clutter the user experience

for the rest of the subscriptions or resource groups. Following are some valid assignable scopes: "/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e",

"/subscriptions/e91d47c4-76f3-4271-a796-21b4ecfe3624": makes the role available for assignment in two subscriptions.

-

"/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e": makes the role available for assignment in a single subscription. -

"/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e/resourceGroups/Network": makes the role available for assignment only in the Network resource group. The input

role definition MAY contain the following properties: 1) NotActions: the set of operations that must be excluded from the Actions to determine the effective actions

for the custom role. If there is a specific operation that you do not wish to grant access to in a custom role, it is convenient to use NotActions to exclude it,

rather than specifying all operations other than that specific operation in Actions. 2) DataActions: the set of data operations to which the custom role grants

access. 3) NotDataActions: the set of operations that must be excluded from the DataActions to determine the set

data actions for the custom role. If there is a
specific data operation that you do not wish to grant access to in a custom role, it is convenient to use NotDataActions to
exclude it, rather than specifying all
operations other than that specific operation in Actions. NOTE: If a user is assigned a role that specifies an operation in
NotActions and also assigned another role
grants access to the same operation - the user will be able to perform that operation. NotActions is not a deny rule - it is
simply a convenient way to create a set
of allowed operations when specific operations need to be excluded. Following is a sample json role definition that can be
provided as input { "Name":
"Updated Role", "Description": "Can monitor all resources and start and restart virtual machines", "Actions":
["*/read",
"Microsoft.ClassicCompute/virtualmachines/restart/action",
"Microsoft.ClassicCompute/virtualmachines/start/action"], "NotActions":
["*/write"], "DataActions": [
"Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read"],
"NotDataActions": ["Microsoft.Storage/storageAccounts/blobServices/containers/blobs/write"],
"AssignableScopes":
["/subscriptions/xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"] }

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 in	put? False	
Accept wildcard characters? false		

-InputFile <System.String>

File name containing a single json role definition.

Required?	true	
Position?	0	
Default value	None	
Accept pipeline in	nput? False	
Accept wildcard characters? false		

-Role <Microsoft.Azure.Commands.Resources.Models.Authorization.PSRoleDefinition>

Role definition object.

- Required?truePosition?0Default valueNone
- Accept pipeline input? False

Accept wildcard characters? false

-SkipClientSideScopeValidation <System.Management.Automation.SwitchParameter>

If specified, skip client side scope validation.

Required?	false
Position?	named
Default value	False
Accept pipeline ir	nput? False
Accept wildcard of	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

None

OUTPUTS

Microsoft.Azure.Commands.Resources.Models.Authorization.PSRoleDefinition

NOTES

Keywords: azure, azurerm, arm, resource, management, manager, resource, group, template, deployment

------ Example 1: Create using PSRoleDefinitionObject ------

\$role = New-Object -TypeName Microsoft.Azure.Commands.Resources.Models.Authorization.PSRoleDefinition

\$role.Name = 'Virtual Machine Operator'

\$role.Description = 'Can monitor, start, and restart virtual machines.'

\$role.lsCustom = \$true

\$role.Actions = @(

"Microsoft.Compute/*/read"

"Microsoft.Compute/virtualMachines/start/action"

"Microsoft.Compute/virtualMachines/restart/action"

"Microsoft.Compute/virtualMachines/downloadRemoteDesktopConnectionFile/action"

"Microsoft.Network/*/read"

"Microsoft.Storage/*/read"

"Microsoft.Authorization/*/read"

"Microsoft.Resources/subscriptions/resourceGroups/read"

"Microsoft.Resources/subscriptions/resourceGroups/resources/read"

"Microsoft.Insights/alertRules/*"

"Microsoft.Support/*"

----- Example 2: Create using JSON file -----

New-AzRoleDefinition -InputFile C:\Temp\roleDefinition.json

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.resources/new-azroledefinition

Get-AzProviderOperation

Get-AzRoleDefinition

Set-AzRoleDefinition

Remove-AzRoleDefinition