



Windows PowerShell Get-Help on Cmdlet 'Get-AzRoleAssignment'

PS:\>Get-HELP Get-AzRoleAssignment -Full

NAME

Get-AzRoleAssignment

SYNOPSIS

Lists Azure RBAC role assignments at the specified scope. By default it lists all role assignments in the selected Azure subscription. Use respective parameters to

list assignments to a specific user, or to list assignments on a specific resource group or resource.

The cmdlet may call below Microsoft Graph API according to input parameters:

- GET /users/{id}
- GET /servicePrincipals/{id}
- GET /groups/{id}
- GET /directoryObjects/{id}
- POST /directoryObjects/getByIds

Please notice that this cmdlet will mark `ObjectType` as `Unknown` in output if the object of role assignment is not found or current account has insufficient privileges to get object type.

SYNTAX

```
Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExpandPrincipalGroups]
[-IncludeClassicAdministrators] -ObjectId <System.String> [-RoleDefinitionName <System.String>]
[-SkipClientSideScopeValidation] [<CommonParameters>]
```

```
Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExpandPrincipalGroups]
[-IncludeClassicAdministrators] [-RoleDefinitionName <System.String>] -SignInName <System.String>
[-SkipClientSideScopeValidation] [<CommonParameters>]
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Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-IncludeClassicAdministrators]
[-RoleDefinitionName <System.String>] [-SkipClientSideScopeValidation] [<CommonParameters>]
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Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-IncludeClassicAdministrators]
-ObjectId <System.String> -ResourceGroupName <System.String> [-RoleDefinitionName <System.String>]
[-SkipClientSideScopeValidation] [<CommonParameters>]
```

```
Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
```

[-IncludeClassicAdministrators]

-ObjectId <System.String> [-ParentResource <System.String>] -ResourceGroupName <System.String> -ResourceName
<System.String> -ResourceType <System.String>

[-RoleDefinitionName <System.String>] [-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-IncludeClassicAdministrators]

-ObjectId <System.String> [-RoleDefinitionName <System.String>] -Scope <System.String>

[-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-IncludeClassicAdministrators]

-ResourceGroupName <System.String> [-RoleDefinitionName <System.String>] -SignInName <System.String>

[-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-IncludeClassicAdministrators]

[-ParentResource <System.String>] -ResourceGroupName <System.String> -ResourceName <System.String>

-ResourceType <System.String> [-RoleDefinitionName <System.String>]

-SignInName <System.String> [-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-IncludeClassicAdministrators]

[-RoleDefinitionName <System.String>] -Scope <System.String> -SignInName <System.String>

[-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-IncludeClassicAdministrators]

-ResourceGroupName <System.String> [-RoleDefinitionName <System.String>] -ServicePrincipalName <System.String>
[-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-IncludeClassicAdministrators]
[-ParentResource <System.String>] -ResourceGroupName <System.String> -ResourceName <System.String>
-ResourceType <System.String> [-RoleDefinitionName <System.String>
-ServicePrincipalName <System.String> [-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-IncludeClassicAdministrators]
[-RoleDefinitionName <System.String>] -Scope <System.String> -ServicePrincipalName <System.String>
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<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-IncludeClassicAdministrators]
[-RoleDefinitionName <System.String>] -ServicePrincipalName <System.String> [-SkipClientSideScopeValidation]
[<CommonParameters>]

Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-IncludeClassicAdministrators]
-ResourceGroupName <System.String> [-RoleDefinitionName <System.String>] [-SkipClientSideScopeValidation]
[<CommonParameters>]

Get-AzRoleAssignment [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-IncludeClassicAdministrators]
[-ParentResource <System.String>] -ResourceGroupName <System.String> -ResourceName <System.String>
-ResourceType <System.String> [-RoleDefinitionName <System.String>

[-SkipClientSideScopeValidation] [<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-IncludeClassicAdministrators]

[-RoleDefinitionName <System.String>] -Scope <System.String> [-SkipClientSideScopeValidation]

[<CommonParameters>]

Get-AzRoleAssignment

[-DefaultProfile

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

[-ObjectId

<System.String>]

-RoleDefinitionId <System.Guid> [-Scope <System.String>] [-SkipClientSideScopeValidation] [<CommonParameters>]

DESCRIPTION

Use the Get-AzRoleAssignment command to list all role assignments that are effective on a scope. Without any parameters, this command returns all the role assignments

made under the subscription. This list can be filtered using filtering parameters for principal, role and scope. The subject of the assignment must be specified. To

specify a user, use SignInName or Microsoft Entra ObjectId parameters. To specify a security group, use Microsoft Entra ObjectId parameter. And to specify a Microsoft

Entra application, use ServicePrincipalName or ObjectId parameters. The role that is being assigned must be specified using the RoleDefinitionName parameter. The

scope at which access is being granted may be specified. It defaults to the selected subscription. The scope of the assignment can be specified using one of the

following parameter combinations

- Scope - This is the fully qualified scope starting with /subscriptions/<subscriptionId>. This will filter assignments that

are effective at that particular scope i.e. all assignments at that scope and above.

- ResourceGroupName - Name of any resource group under the subscription.

This will filter assignments effective at the specified resource group

- ResourceName, ResourceType, ResourceGroupName and (optionally) ParentResource -

Identifies a particular resource under the subscription and will filter assignments effective at that resource scope. To determine what access a particular user has

in the subscription, use the ExpandPrincipalGroups switch. This will list all roles assigned to the user, and to the groups that the user is member of. Use the

IncludeClassicAdministrators switch to also display the subscription admins and co-admins.

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

-ExpandPrincipalGroups <System.Management.Automation.SwitchParameter>

If specified, returns roles directly assigned to the user and to the groups of which the user is a member (transitively).

Supported only for a user principal.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-IncludeClassicAdministrators <System.Management.Automation.SwitchParameter>

If specified, also lists subscription classic administrators (co-admins, service admins, etc.) role assignments.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ObjectId <System.String>

The Microsoft Entra ObjectId of the User, Group or Service Principal. Filters all assignments that are made to the specified principal.

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

-ParentResource <System.String>

The parent resource in the hierarchy of the resource specified using ResourceName parameter. Must be used in conjunction with ResourceGroupName, ResourceType, and ResourceName parameters.

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

-ResourceGroupName <System.String>

The resource group name. Lists role assignments that are effective at the specified resource group. When used in conjunction with ResourceName, ResourceType, and ParentResource parameters, the command lists assignments effective at resources within the resource group.

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

-ResourceName <System.String>

The resource name. For e.g. storageaccountprod. Must be used in conjunction with ResourceGroupName, ResourceType, and (optionally)ParentResource parameters.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceType <System.String>

The resource type. For e.g. Microsoft.Network/virtualNetworks. Must be used in conjunction with ResourceGroupName, ResourceName, and (optionally)ParentResource parameters.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RoleDefinitionId <System.Guid>

Id of the Role that is assigned to the principal.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RoleDefinitionName <System.String>

Role that is assigned to the principal i.e. Reader, Contributor, Virtual Network Administrator, etc.

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

-Scope <System.String>

The Scope of the role assignment. In the format of relative URI. For e.g. /subscriptions/9004a9fd-d58e-48dc-aeb2-4a4aec58606f/resourceGroups/TestRG. It must start with "/subscriptions/{id}". The command filters all assignments that are effective at that scope.

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

-ServicePrincipalName <System.String>

The ServicePrincipalName of the service principal. Filters all assignments that are made to the specified Microsoft Entra application.

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

-SignInName <System.String>

The email address or the user principal name of the user. Filters all assignments that are made to the specified user.

Required? true
Position? named
Default value None

Accept pipeline input? True (ByPropertyName)

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 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

System.Guid

OUTPUTS

Microsoft.Azure.Commands.Resources.Models.Authorization.PSRoleAssignment

NOTES

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

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

Get-AzRoleAssignment

List all role assignments in the subscription

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

Get-AzRoleAssignment -ResourceGroupName testRG -SignInName john.doe@contoso.com

Gets all role assignments made to user john.doe@contoso.com, and the groups of which he is member, at the testRG scope or above.

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

Get-AzRoleAssignment -ServicePrincipalName "http://testapp1.com"

Gets all role assignments of the specified service principal

----- Example 4 -----

Get-AzRoleAssignment -Scope
"/subscriptions/96231a05-34ce-4eb4-aa6a-70759cbb5e83/resourcegroups/rg1/providers/Microsoft.Web/sites/site1"

Gets role assignments at the 'site1' website scope.

RELATED LINKS

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

New-AzRoleAssignment

Remove-AzRoleAssignment

Get-AzRoleDefinition