# **Create a Data Factory Custom Contributor Role**

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## Create a Data Factory Custom Contributor Role

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#### Issue

Customer has the need to have an ADF Contributor Role with restricted permissions

#### Resolution

We can achieve this by using the Az Module for Powershel.

#### Install Azure CLI:

https://docs.microsoft.com/en-us/cli/azure/install-azure-cli-windows?view=azure-cli-latest

Open Powershell in Admin mode, and login into the account, and select the right subscription:

```
az login
```

Select-AzSubscription -SubscriptionId "<SubscriptionId>"

Get the built-in permission and attribute it to a variable:

```
PS C:\> $role = Get-AzRoleDefinition -Name "Data Factory Contributor"
```

Check the role actions:

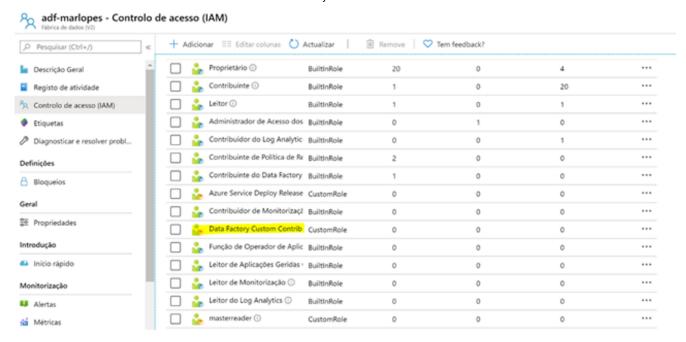
```
PS C:\> $role.Actions
Microsoft.Authorization/*/read
Microsoft.DataFactory/dataFactories/*
Microsoft.DataFactory/factories/*
Microsoft.Insights/alertRules/*
Microsoft.ResourceHealth/availabilityStatuses/read
Microsoft.Resources/deployments/*
Microsoft.Resources/subscriptions/resourceGroups/read
Microsoft.Support/*
```

Taking into account what kind of actions does the customer wants to implement, take the last output and edit the lines, according to your needs, in this example we wanted to change the following permissions:

```
"Microsoft.Authorization/*/read",
"Microsoft.DataFactory/dataFactories/*/read",
"Microsoft.DataFactory/factories/*/read",
"Microsoft.Insights/alertRules/* ",
"Microsoft.ResourceHealth/availabilityStatuses/read",
```

```
Create a Data Factory Custom Contributor Role - Overview
"Microsoft.Resources/deployments/* ",
"Microsoft.Resources/subscriptions/resourceGroups/read",
"Microsoft.Support/*/read",
and include all actions for triggers in the data factory environment:
"Microsoft.DataFactory/factories/triggers/*"
Clear the existent Actions and include the new ones
$role.Actions.Clear()
$role.Actions.Add("Microsoft.Authorization/*/read")
$role.Actions.Add("Microsoft.DataFactory/dataFactories/*/read")
$role.Actions.Add("Microsoft.DataFactory/factories/*/read")
$role.Actions.Add("Microsoft.Insights/alertRules/*")
$role.Actions.Add("Microsoft.ResourceHealth/availabilityStatuses/read")
$role.Actions.Add("Microsoft.Resources/deployments/*")
$role.Actions.Add("Microsoft.Resources/subscriptions/resourceGroups/read")
$role.Actions.Add("Microsoft.Support/*")
$role.Actions.Add("Microsoft.DataFactory/factories/triggers/*")
Clear and change the properties below accordingly:
PS C:\> $role.Id = $null
PS C:\> $role.Name = "Data Factory Custom Contributor"
PS C:\> $role.Description = "Data Factory Contributor with restricted permissions"
PS C:\> $role.AssignableScopes.Clear()
PS C:\> $role.AssignableScopes.Add("/subscriptions/[SUBSCRIPTION ID]")
Finally create the role:
PS C:\> New-AzRoleDefinition -Role $role
This will be the typical output:
Name
                 : Data Factory Custom Contributor
Id
                : [NEW_ID]
IsCustom
               : True
               : Data Factory Contributor with restricted permissions
Description
Actions : {Microsoft.Authorization/*/read, Microsoft.DataFactories/*/read, Micros
oft.DataFactory/factories/*/read, Microsoft.Insights/alertRules/*/read...}
NotActions : {}
DataActions
                 : {}
NotDataActions : {}
AssignableScopes : {/subscriptions/[SUBSCRIPTION ID]}
You will see the role created in ADF IAM
```

(the picture below is in portuguese ♥):



### **Additional Information**

All the permissions that you can assign to a custom role for ADF:

https://docs.microsoft.com/en-us/azure/role-based-access-control/resource-provider-operations#microsoftdatafactory

There's a document built in case you want to share this with the customer, feel free to use it and change it accordingly,

Creating a Data Factory Custom Contributor Role using Azure CLI.docx

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