# Trigger an Azure Function with Easy auth or AAD auth enabled

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#### Issue

The customer wants to trigger an Azure Function from Data Factory but it fails when AAD Auth/ Easy Auth is enabled on Azure Function

## Cause

When AAD auth is enabled on the Function app, only user/groups who are part of the AAD auth has permission to trigger the app.

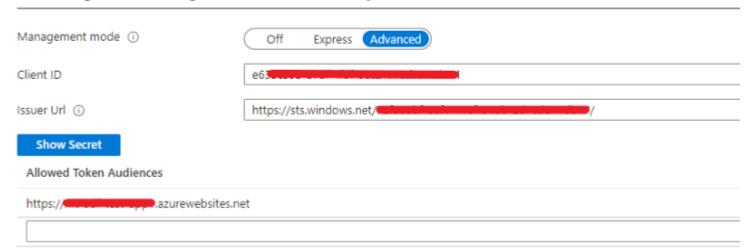
### Resolution

1. Verify if the AAD auth is setup in Azure Function with the below details • The Issue URL is in the form "https://sts.windows.net/ C Tenant-ID>/" • Under allowed token the Function app URL is listed https://<functionAppName>.azurewebsites.net • In the function app, set the Authorization level to Anonymous because we have configured AAD auth.

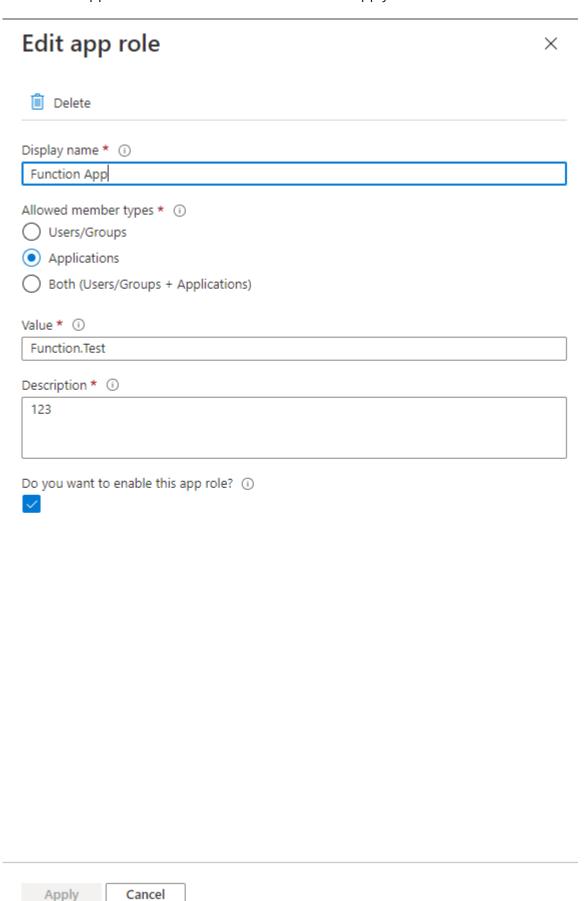


## **Active Directory Authentication**

These settings allow users to sign in with Azure Active Directory. Click here to learn more. Learn more



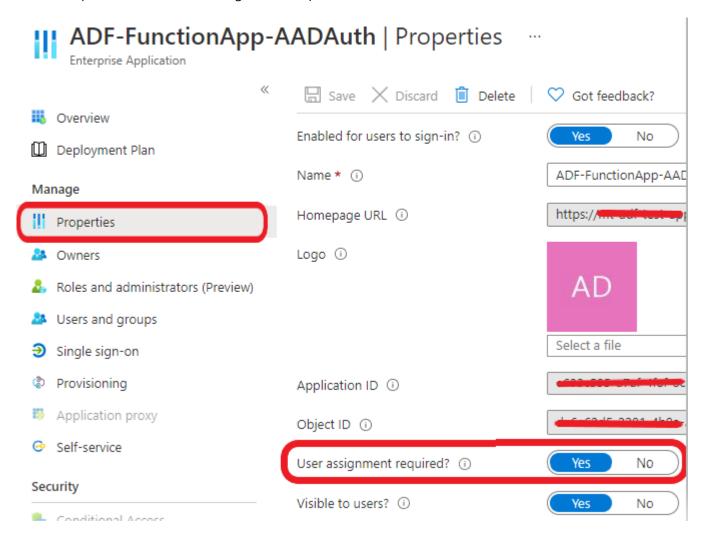
2. Navigate to Azure Active Directory in the portal -> App registrations -> search for your function app name with the filter All applications -> Search and open the APP used in Function -> App roles | Preview -> Create app role -> create the role like below -> Apply.



3. Navigate to the Overview page of the App -> click the Managed application in the local directory



In the Properties, -> set User assignment required? to Yes.



4. Use the PowerShell commands below to give the app role to your MSI(managed identity), replace the <datafactory-name> and <aad-appName>. Make sure you have installed the AzureAD PowerShell module and have enough permission to assign the app role.

```
Connect-AzureAD
$MSI = Get-AzureADServicePrincipal -Filter "displayName eq '<datafactory-name>'"
$funapp = Get-AzureADServicePrincipal -Filter "displayName eq '<aad-appName>'"
$PermissionName = "Function.Test" (Note - The permission value here should be the same value you add/create)
$approle = $funapp.AppRoles | Where-Object {$ .Value -eq $PermissionName}
New-AzureADServiceAppRoleAssignment -ObjectId $MSI.ObjectId -PrincipalId $MSI.ObjectId -ResourceId $funapp.Obj
```

- 5. (Optional) to verify if the above commands created the correct permission, Navigate to the Overview page of the App -> click Managed application in the local directory - > In the Users and groups there will be an entry with your Data Factory Name and Object Type "ServicePrincipal".
- 6. Navigate to Data Factory, create a pipeline with web activity: -
- URL: Default URL from function in form https://<functionAppName>.azurewebsites.net/api/<triggerName/FunctionName>
- Drop down Advance and chouse "MSI" for Authentication.
- Add Resource value as https://<functionAppName>.azurewebsites.net
- Debug / Trigger (after publishing) pipeline.

#### How good have you found this content?



