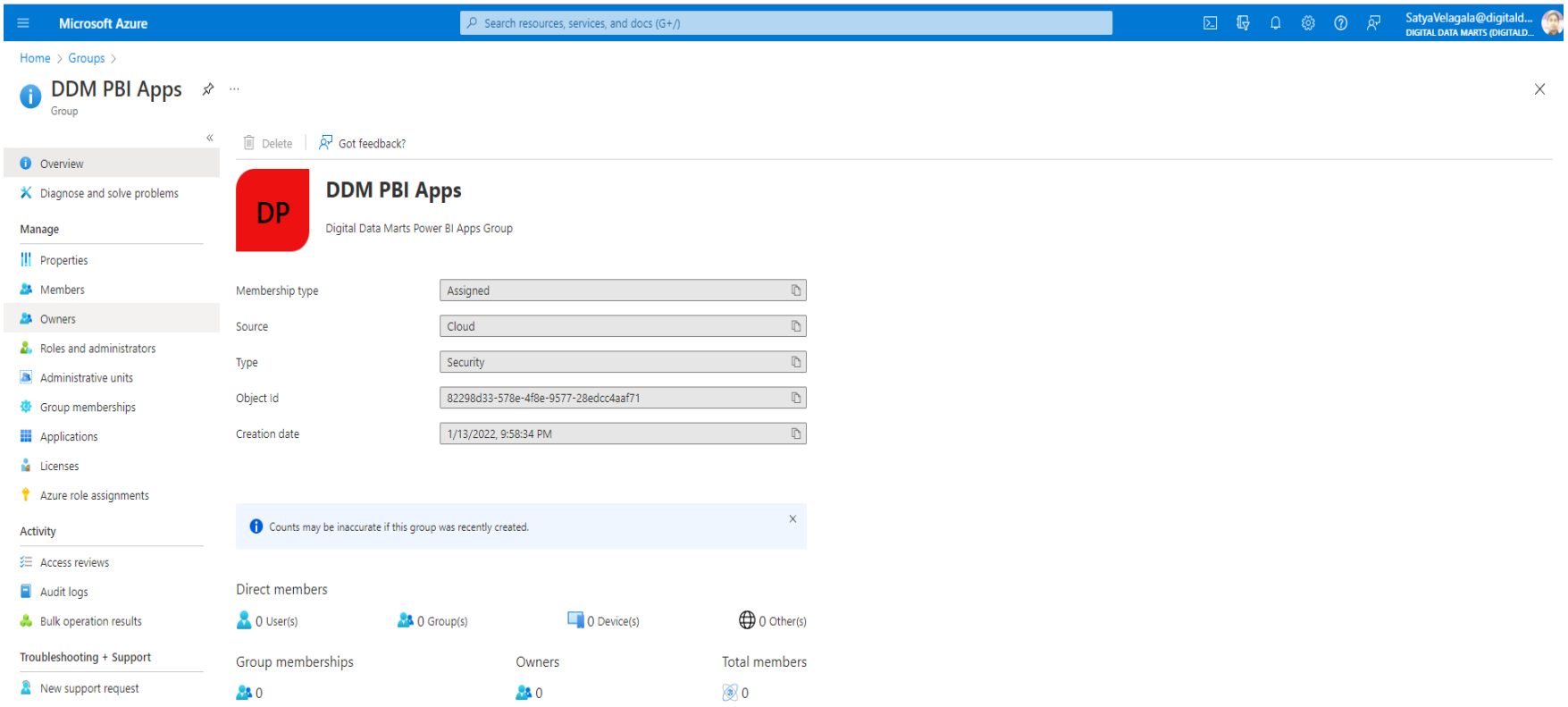
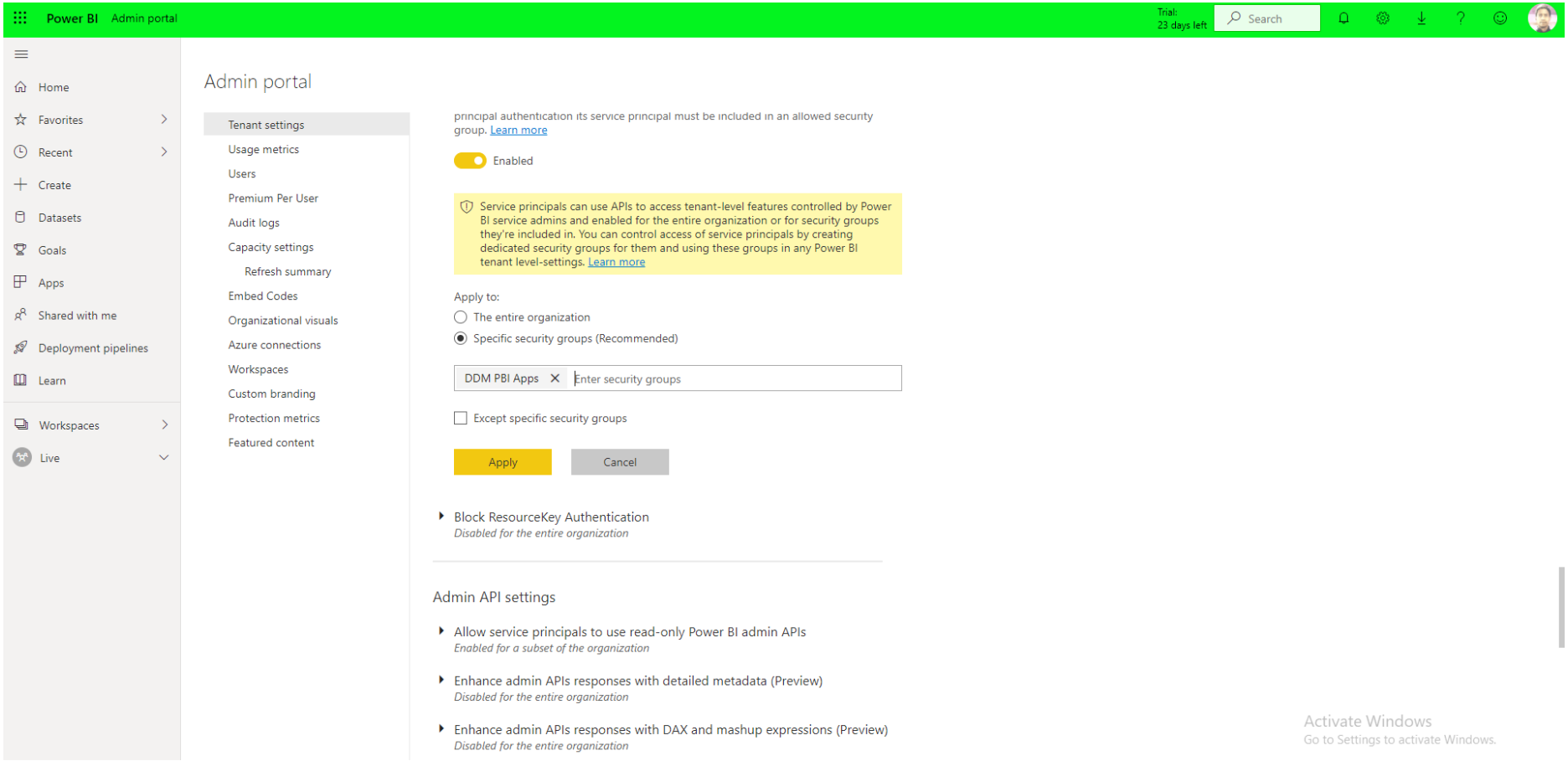
Power BI Automation

Tenant : Digital Data Marts **Admin : SatyaVelagala@DigitalDatamarts.com**

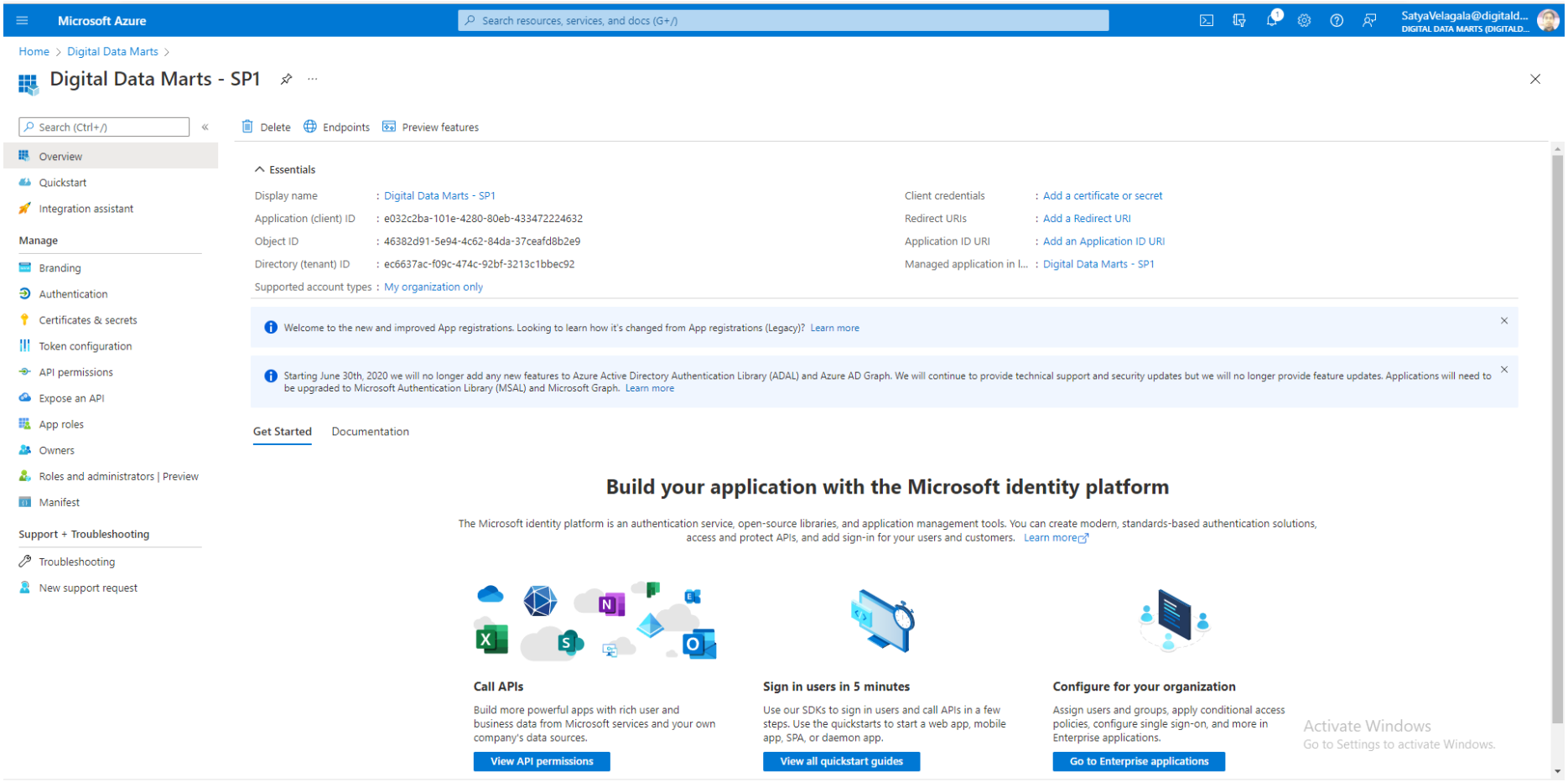
1.Create Group called DDM PBI Apps



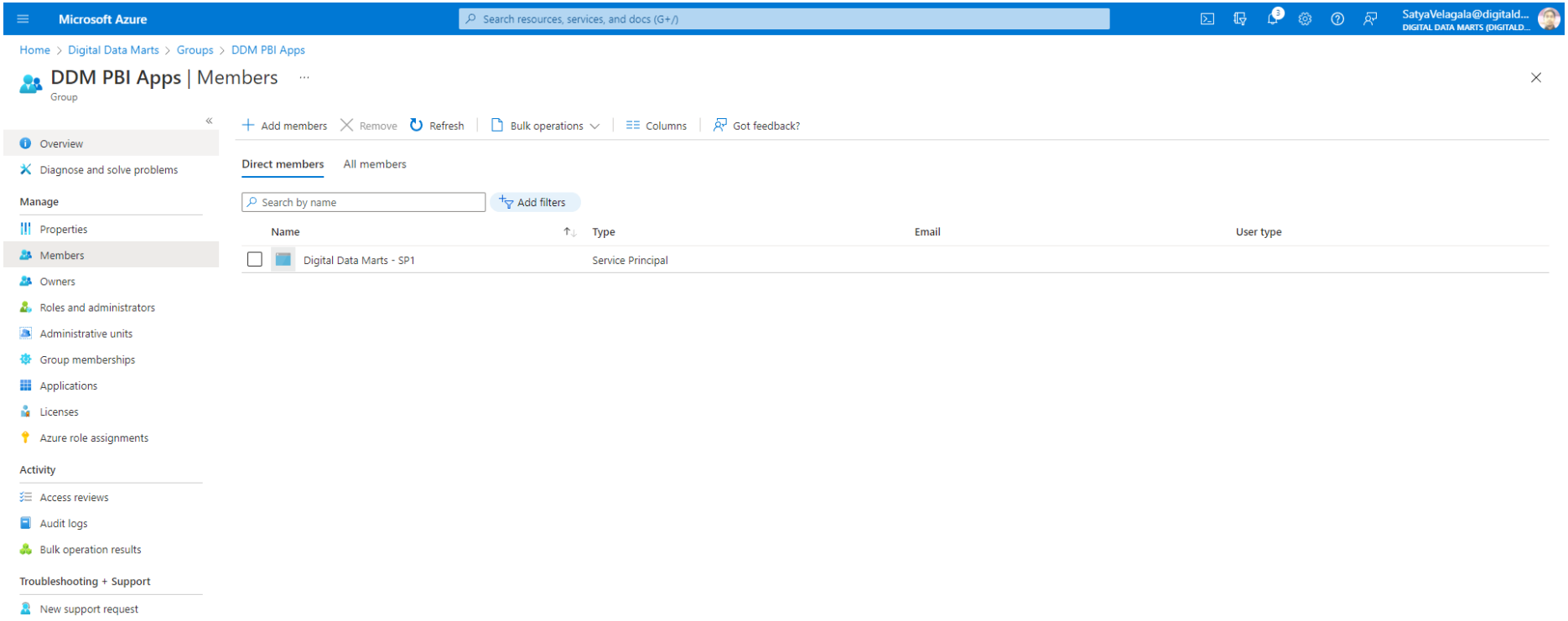
2.Power BI Admin Portal – Settings



3. Service Pricipal Setup :



4. Add the SPN to the Group as Member

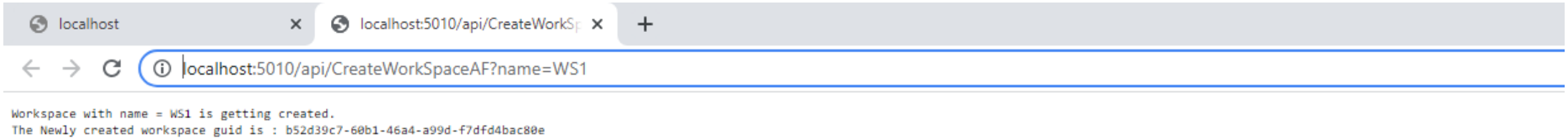


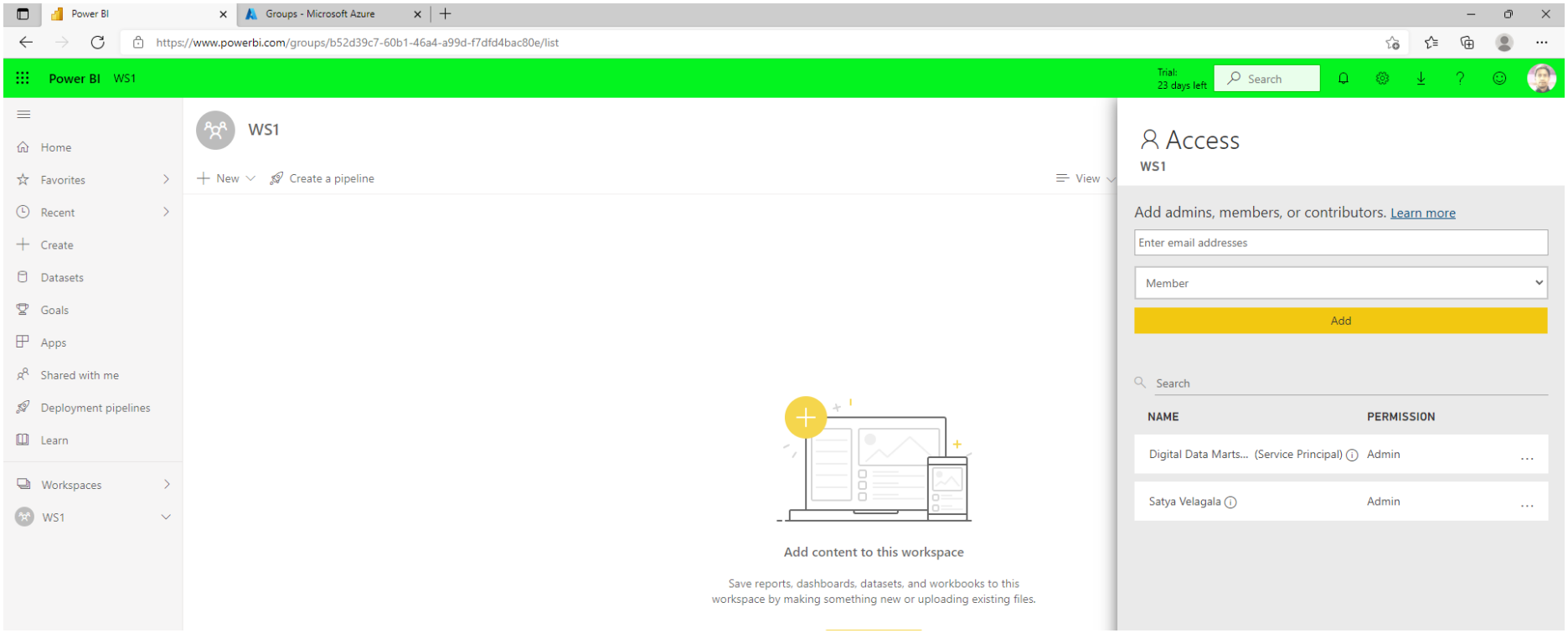
Azure Function Code

```
public static class CreateWorkSpaceAF


  {
     [FunctionName("CreateWorkSpaceAF")]
     public static async Task<IActionResult> Run(
        [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)] HttpRequest req,
        ILogger log)
     {
        log.LogInformation("HTTP triggered function processed a request for CreateWorkSpaceAF.");


        string name = req.Query["name"];


        string requestBody = await new StreamReader(req.Body).ReadToEndAsync();
        dynamic data = JsonConvert.DeserializeObject(requestBody);
        name = name ?? data?.name;


        string responseMessage = string.IsNullOrEmpty(name)
           ? "Pass a workspace name (name) in the query string to create a new workspace.\n"
           : $"Workspace with name = {name} is getting created.\n";
```

```
 PowerBiAppIdentity objAppIdentity = new PowerBiAppIdentity();

        objAppIdentity.TenantId ="ec6637ac-f09c-474c-92bf-3213c1bbec92";
        objAppIdentity.ApplicationId ="e032c2ba-101e-4280-80eb-433472224632";
        objAppIdentity.ClientSecret ="2&27Q~NDwI.iZPGAYmKakOybDS48pX_IYTugT";


        PowerBiServiceApi objservice = new PowerBiServiceApi();

        PowerBIClient PbiClientDetails = objservice.GetPowerBiClient(objAppIdentity);

        var ClientWSes = await objservice. GetTenantWorkspacesAsync(PbiClientDetails);

        foreach (Group ws in ClientWSes) {
            //Console.WriteLine($"ws name = {ws.Name}");
            if(!string.IsNullOrEmpty(ws.Name)){
             if (ws.Name.ToLower().Equals(name.ToLower())) {
                responseMessage = responseMessage + $"The Workspace is already created with this name, created workspace guid is : {ws.Id}";
                return new OkObjectResult(responseMessage);
```

```
            }
           }
        }

        Group workSpace =null;
        string workspaceName = name;
        PowerBiTenantDetails tenantDetails = new PowerBiTenantDetails();

        workSpace = objservice.CreateAndGetNewWorkSpace(objAppIdentity,workspaceName);
        responseMessage = responseMessage + $"The Newly created workspace guid is : {workSpace.Id}";
        return new OkObjectResult(responseMessage);
    }

}
```




Power BI
Groups - Microsoft Azure
https://www.powerbi.com/groups/b52d39c7-60b1-46a4-a99d-f7dfd4bac80e/list
Power BI WS1
Trial: 23 days left
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Favorites
Recent
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Datasets
Goals
Apps
Shared with me
Deployment pipelines
Learn
Workspaces
WS1
WS1
New
Create a pipeline
View
Add content to this workspace
Save reports, dashboards, datasets, and workbooks to this workspace by making something new or uploading existing files.
Access
WS1
Add admins, members, or contributors. Learn more
Enter email addresses
Member
Add
Search
NAME
PERMISSION
Digital Data Marts... (Service Principal)
Admin
Satya Velagala
Admin