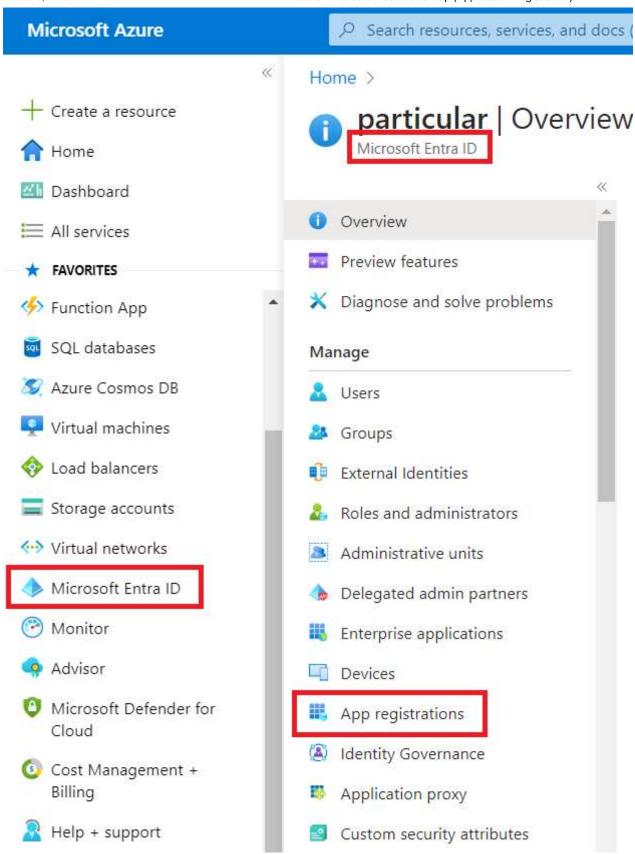
Azure SDK Create ResourceGroup (Application Registration)

1. Register the application in Microsoft Entra ID

We create the Service principal with the following command:

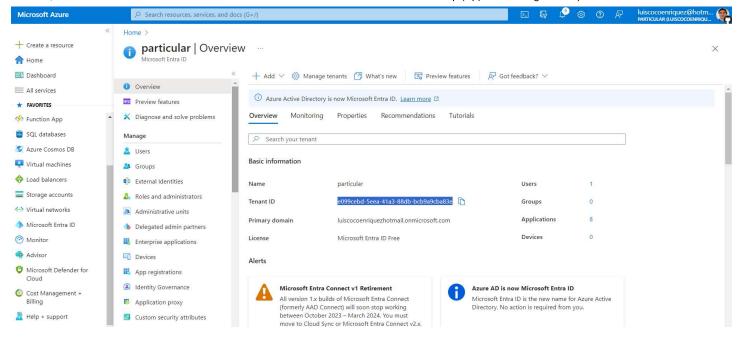
We navigate to Azure Microsoft Entra ID

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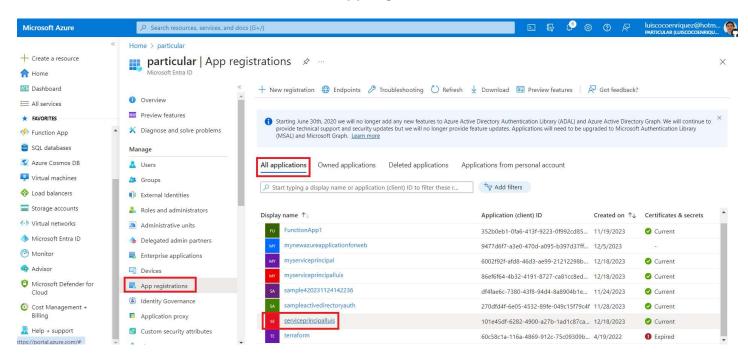


First we get the **Tenant ID**

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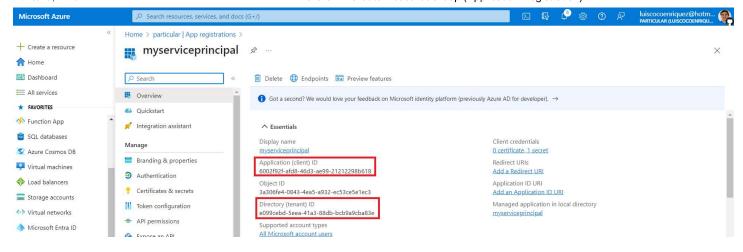
We enter Microsoft Entra ID and we click on App registrations



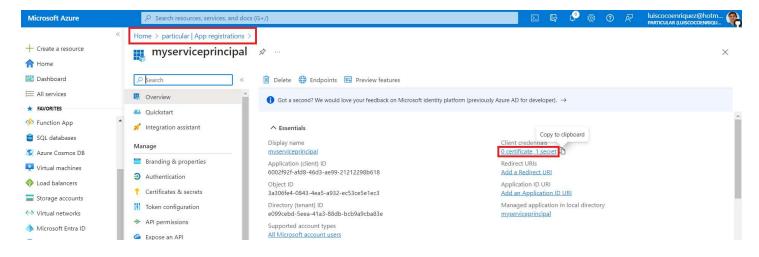
We click on the "myserviceprincipal", the service principal we created at the begining of this section 2

We copy the **clientId** and (optionally) you can also get from here the **tenantId**, we paste both values in the application variables **clientId** and **tenantId**

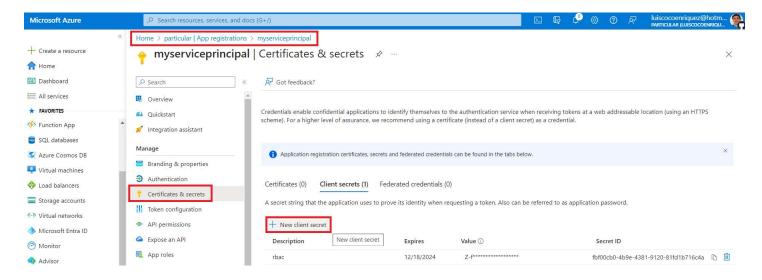
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We create a new secret clicking on Client credentials link



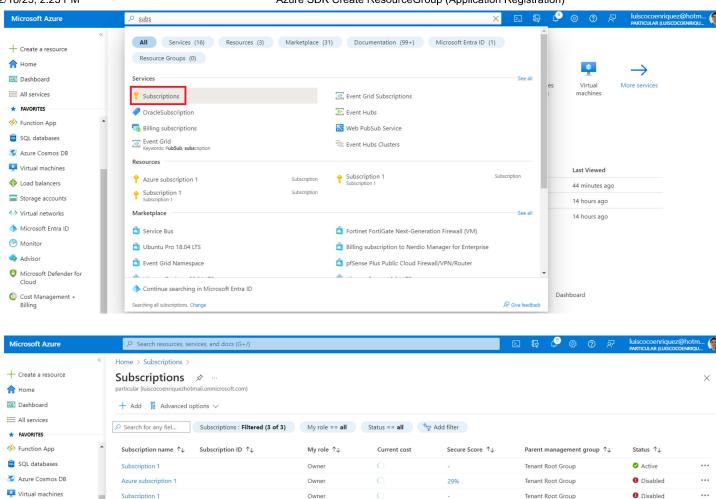
We press in the New client secret button



We copy the Secret value to paste in the application clientSecret variable

We navigate in Azure Portal to the Subscriptions service and we copy the subscription subscriptionId

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2. Input the application source code

Open VSCode and create a new C# application with this command:

```
dotnet new console --framework net8.0
```

Add the dependencies with the commands:

```
dotnet add package Microsoft.Azure.Management.ResourceManager --version 3.17.4-preview

dotnet add package Microsoft.Rest.Azure.Authentication
```

Input the C# source code for creating a new Azure ResourceGroup with Azure SDK for .NET

```
using Microsoft.Azure.Management.ResourceManager;
using Microsoft.Azure.Management.ResourceManager.Models;
using Microsoft.Rest.Azure.Authentication;
namespace AzureResourceGroupCreation
{
```

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```
class Program
   {
      static void Main(string[] args)
         // Replace these variables with your own values
         string resourceGroupName = "myresourcegroupluiscocoenriquez";
         string location = "westeurope"; // e.g., "westus"
         // Authenticate with Azure
         var serviceClientCredentials = ApplicationTokenProvider.LoginSilentAsync(tenantId,
         // Initialize the resource management client
         var resourceManagementClient = new ResourceManagementClient(serviceClientCredentia
         {
            SubscriptionId = subscriptionId
         };
         // Create the resource group
         var resourceGroup = new ResourceGroup { Location = location };
         resourceGroup = resourceManagementClient.ResourceGroups.CreateOrUpdate(resourceGro
         System.Console.WriteLine("Resource group created: " + resourceGroup.Name);
      }
  }
}
```

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