ONLINE LAB: Create an Azure SQL Database with Sample Queries

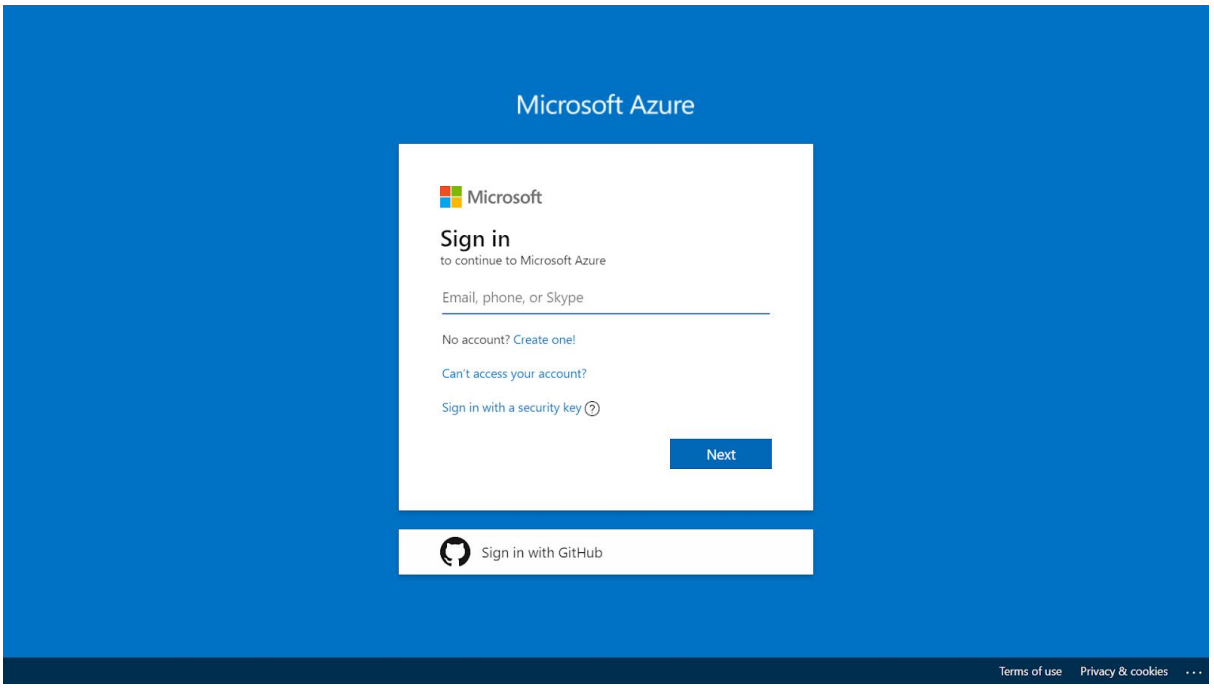
Your Challenge

- Create a resource group named **sqldbgroup**
- In that resource group create a SQL Database named **mydb**
    - Create a new database server, and give it **a unique name**
    - Fill the database with the sample AdventureWorks Database
- Download and install SQL Server Management Studio 2017
- Connect to the mydb database and run a simple query
- Clean up all of your resources created after you're done

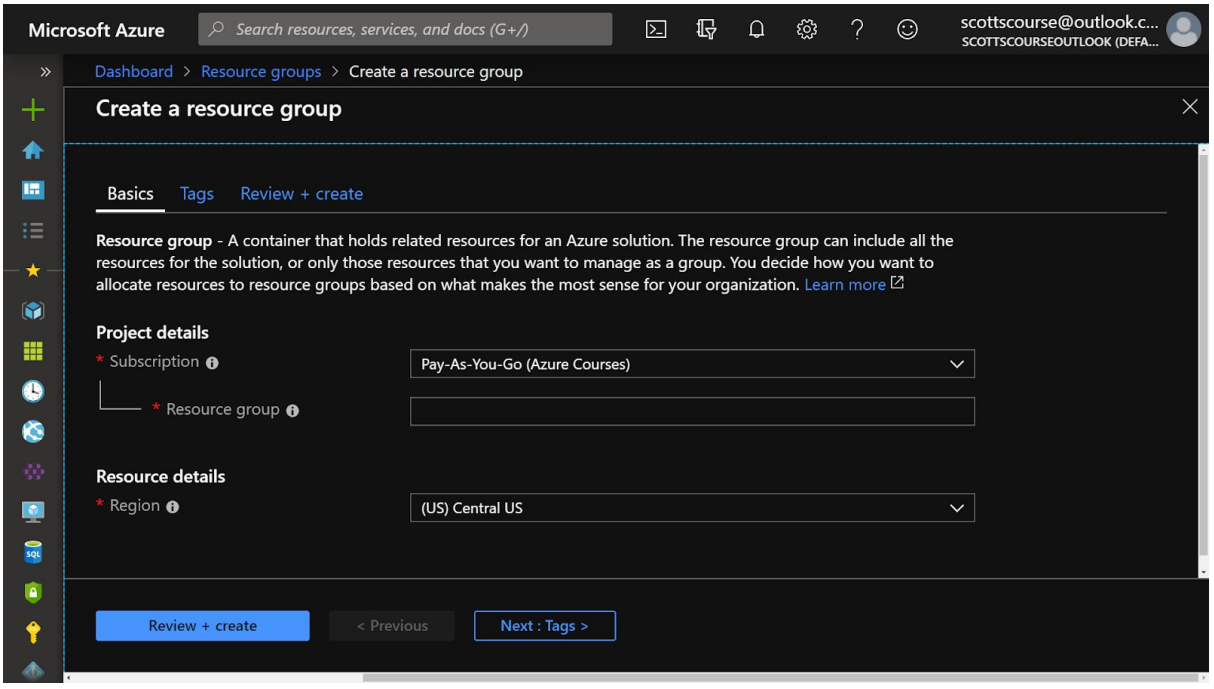
Solution

Step 1 Sign Into Azure

Sign in to Azure at https://portal.azure.com/



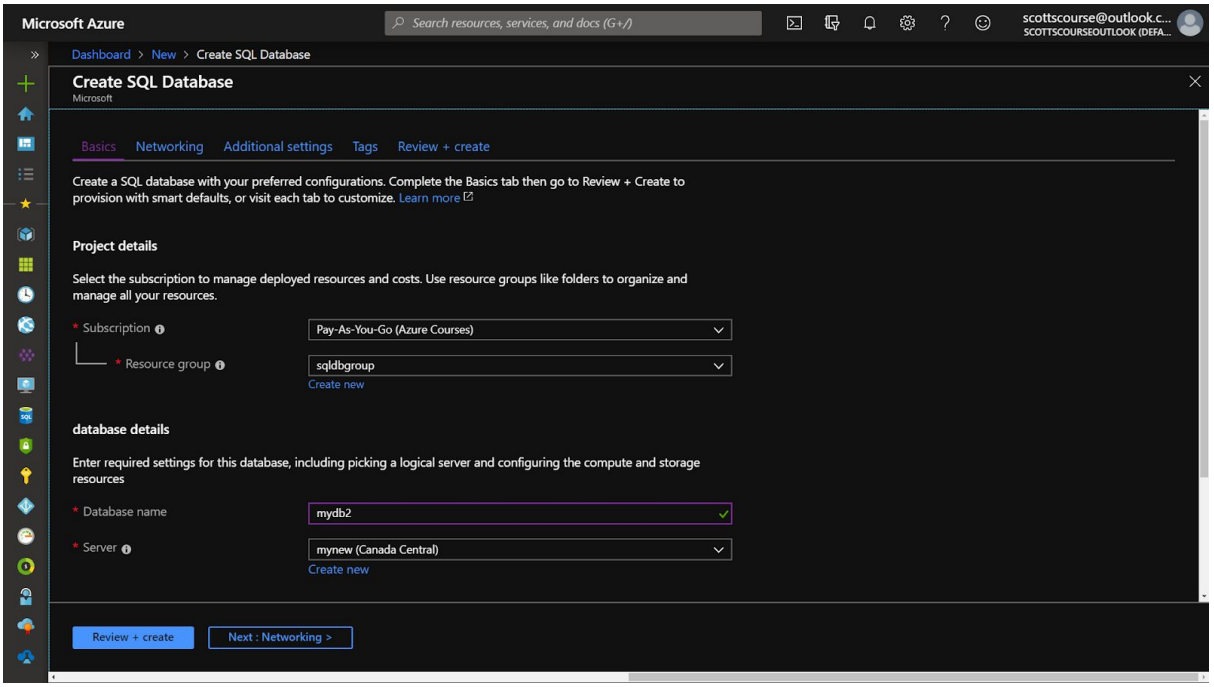
Step 2 Create a resource group



1. In the navigation list, click **Resource groups**.
2. Click **Add** to open the **Resource group** blade.
3. For **Resource group** name, enter **sqldbgroup**.
4. Select a subscription and a location.
5. Click **Review + Create** to proceed to the last step.
6. Click **Create** to create the resource group.
7. Click **Refresh** to refresh the list of resource groups.

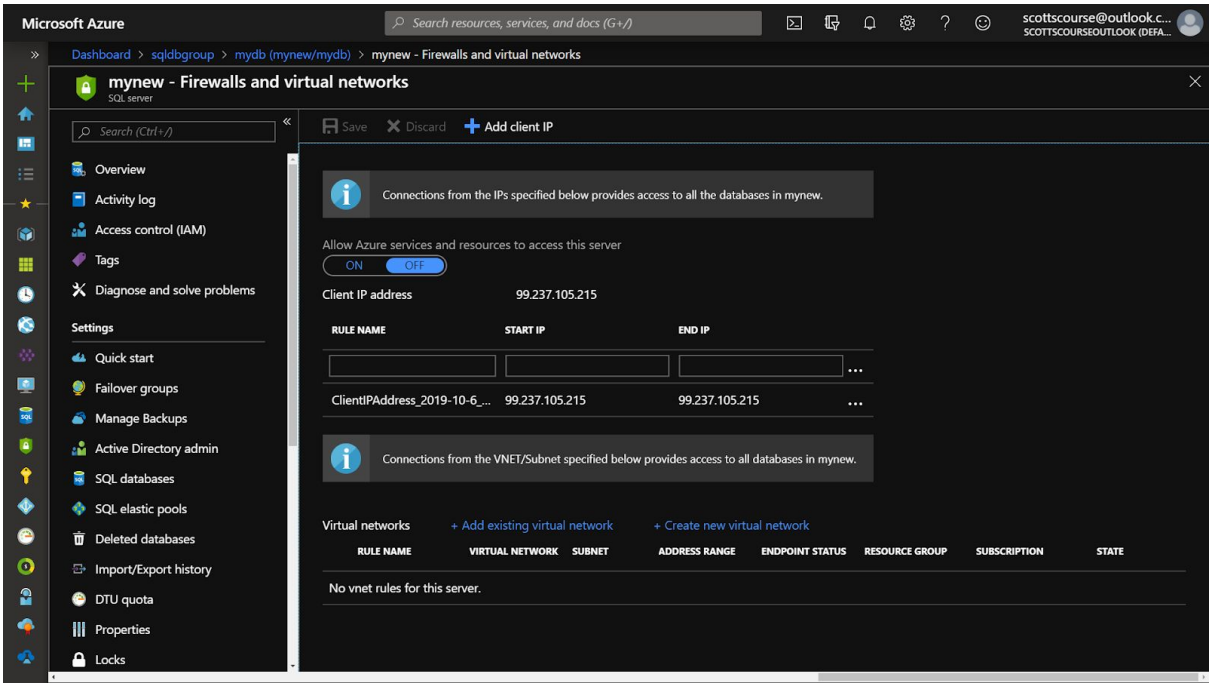
The new resource group appears in your resource groups list.

Step 3 Create a SQL Database



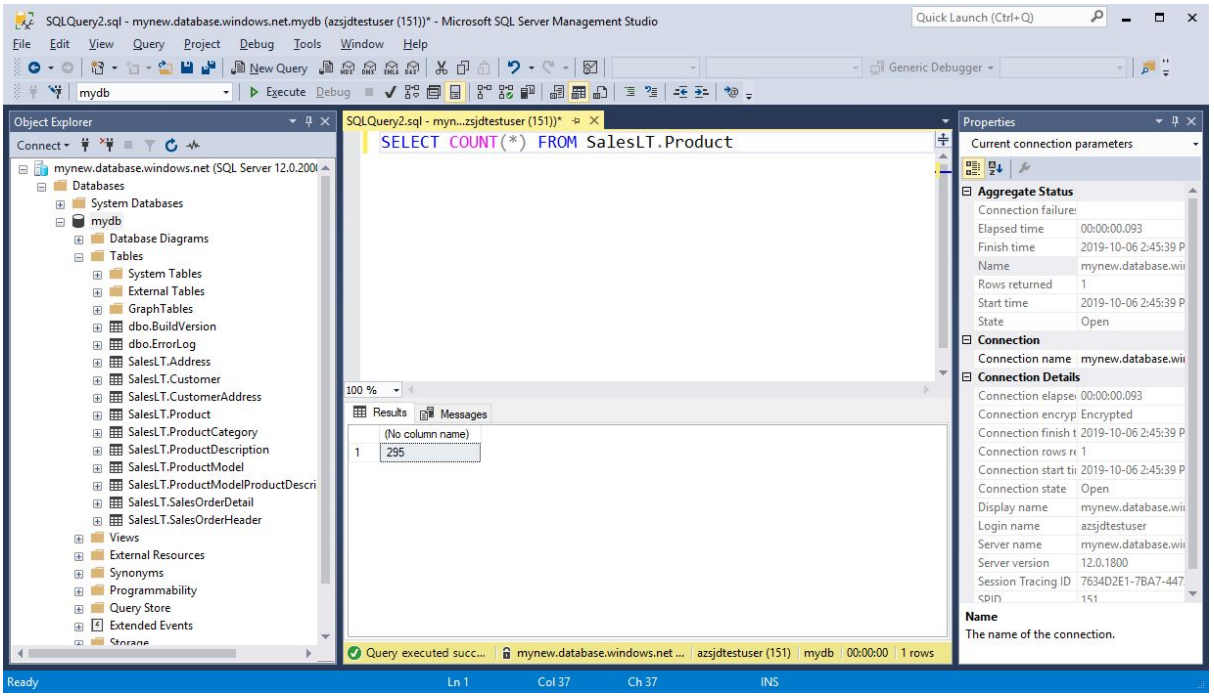
1. Click the **Create a Resource (green plus sign)** on the menu
2. Navigate to “**Databases**” in the category list
3. Choose **SQL Database**
4. Choose your subscription
5. Choose the **sqldbgroup** for resource group
6. Give the database the name **mydb**
7. Create a new server
    a. Give the server a **unique name**
    b. Choose an **admin user name** and **password** that you would remember
    c. Choose your location
8. Choose **No** to using elastic pool
9. Leave the default server size
10. Choose **Next : Networking**
11. Choose **Next : Additional Settings**
12. Select “**Sample**” under **Use Existing Data**.
13. Choose **Review and Create**.
14. Choose **Create**.
15. Wait for the database to create. It could take around 5 minutes.

Step 4 Open the Firewall to Your Computer



1. In the Azure portal, navigate to your new **mydb** database.
2. Click on the “server name” from the **mydb** overview screen.
3. Click “**Show Firewall Settings**” from the Azure SQL Database server overview screen.
4. Click “**Add Client IP**” in the top menu.
5. Click **Save**.

Step 5 Query the SQL DB



1. Download and install **SQL Server Management Studio** if you don't currently have it
    a. https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-2017
2. In the Azure portal, navigate to your new **mydb** database.
3. Copy the "server name" from the **mydb** overview screen.
4. Run **SQL Server Management Studio** on your desktop
5. Use the "server name" provided by Azure Portal in step 3
6. Use "**SQL Server Authentication**" method
7. Provide the login and password you set when creating the server
8. Click **Connect.**
9. Click on the **mydb** database on the left.
10. Click "**New Query**" from the top bar of SQL Server Management Studio
11. Enter the following query and execute:
    a. SELECT COUNT(*) FROM SalesLT.Product
12. Examine the results.

Step 5 Clean up

1. In the navigation list, click **Resource groups**.
2. Click **sqldbgroup** to open the resource group.
3. Click **Delete resource group** to delete the resource group.

4. On the **Are you sure you want to delete** blade, type the resource group name: **sqldbgroup**.
5. Click **Delete** to delete the resource group.