

ONLINE LAB: Create an Azure SQL Database with Sample Queries

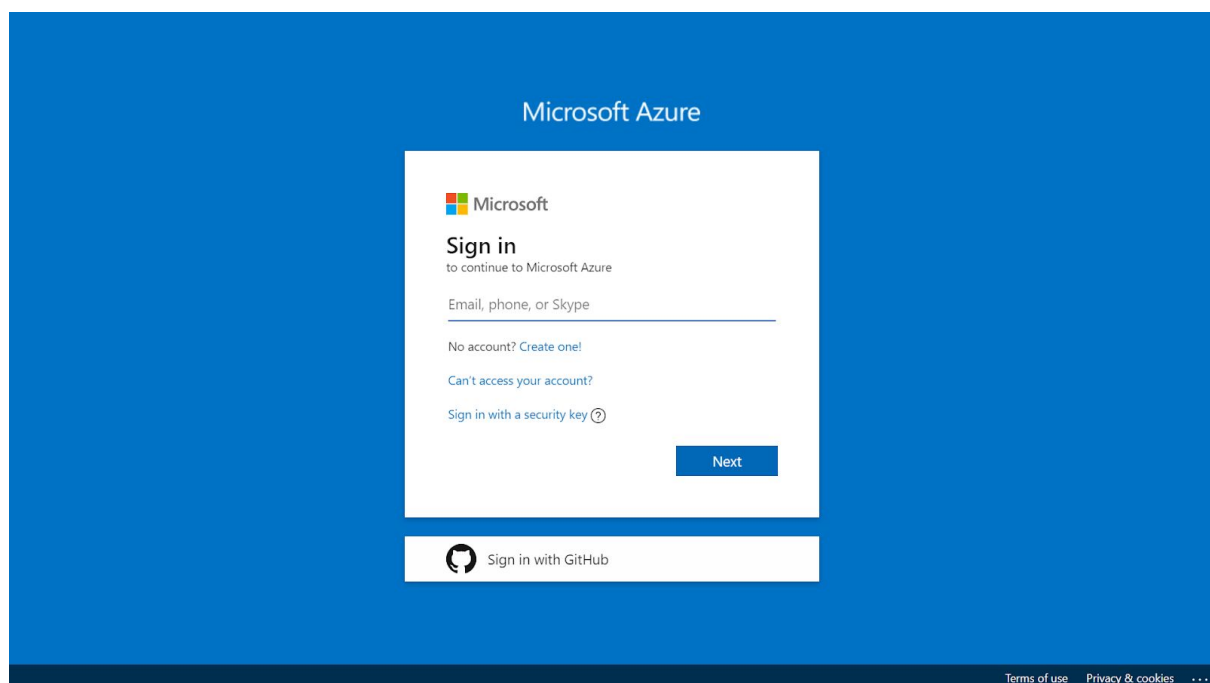
Your Challenge

- 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

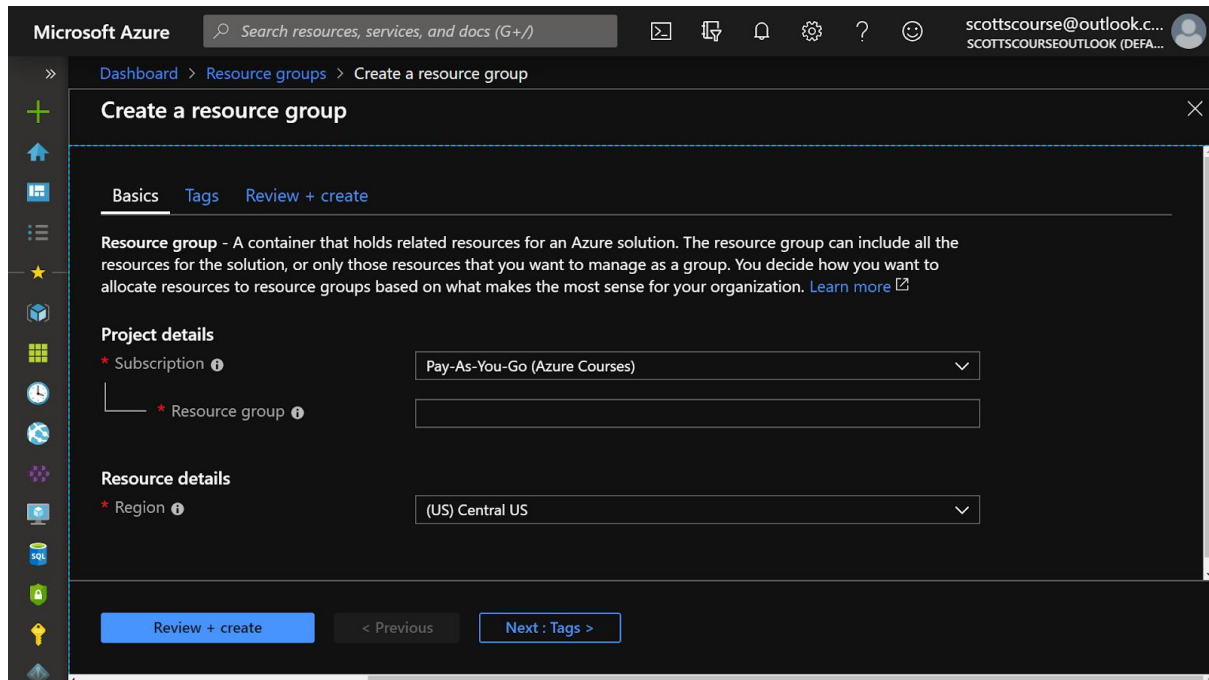
Solution

Step 1 Sign Into Azure

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



Step 2 Create a resource group



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo, a search bar, and user information for 'scottscourse@outlook.c...'. The breadcrumb trail indicates the path: 'Dashboard > Resource groups > Create a resource group'. The main content area is titled 'Create a resource group' and has three tabs: 'Basics', 'Tags', and 'Review + create'. The 'Basics' tab is active. It contains a description of a resource group, followed by 'Project details' with a 'Subscription' dropdown set to 'Pay-As-You-Go (Azure Courses)' and an empty 'Resource group' text field. Below that, 'Resource details' shows a 'Region' dropdown set to '(US) Central US'. At the bottom, there are three buttons: 'Review + create' (highlighted in blue), '< Previous', and 'Next : Tags >'.

1. In the navigation list, click **Resource groups**.
2. Click **Add** to open the **Resource group** blade.
3. For **Resource group** name, enter **sqlldbgroup**.
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

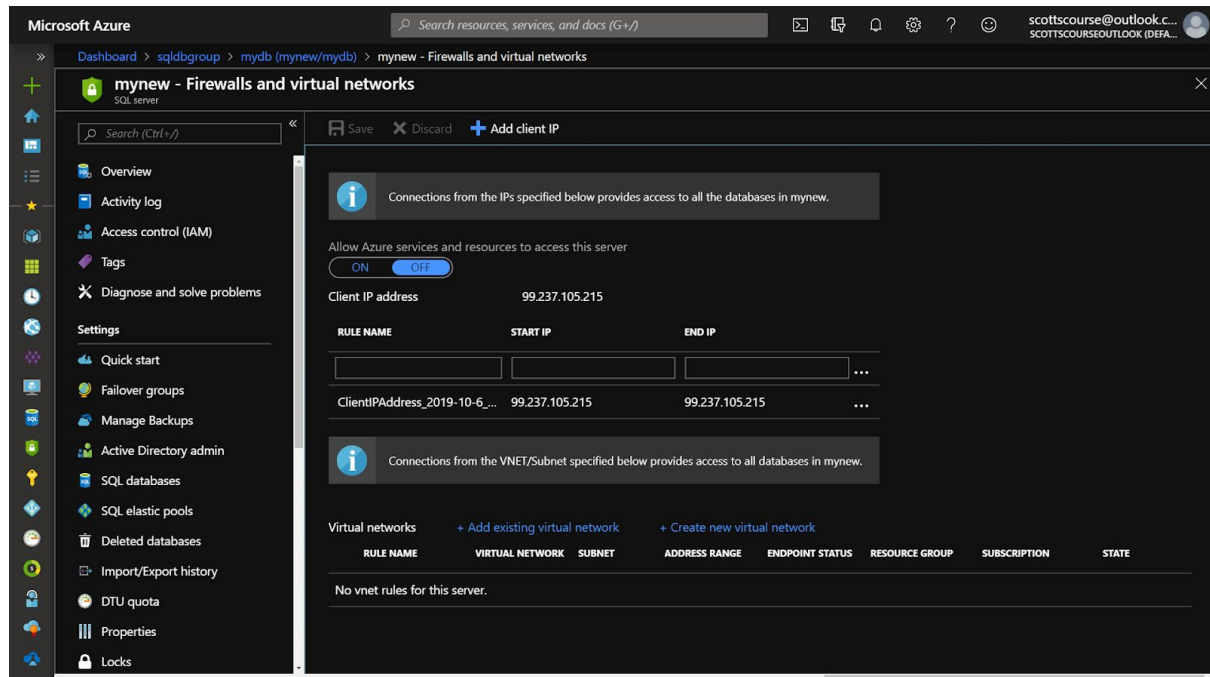
The screenshot shows the 'Create SQL Database' wizard in the Microsoft Azure portal. The 'Basics' tab is selected, and the following configuration is shown:

- Project details:**
 - Subscription: Pay-As-You-Go (Azure Courses)
 - Resource group: sqldbgroup
- database details:**
 - Database name: mydb2
 - Server: mynew (Canada Central)

Buttons at the bottom include 'Review + create' and 'Next : Networking >'.

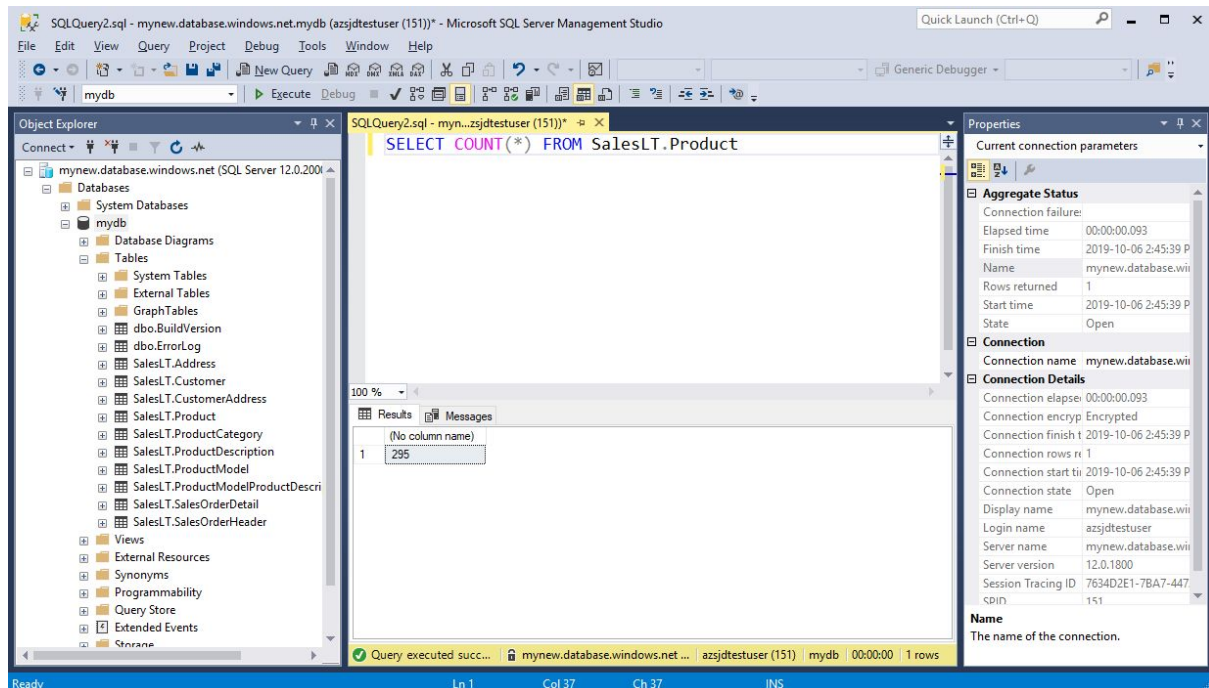
1. Click the **Create a Resource (green plus sign)** on the menu
2. Navigate to **"Databases"** in the category list
3. Choose **SQL Database**
4. Choose your subscription
5. Choose the **sqldbgroup** for resource group
6. Give the database the name **mydb**
7. Create a new server
 - a. Give the server 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.