Create a Single Database in

Azure SQL Database using Azure Portal

Azure DP200 Training

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Single database is one of three deployment options for Azure SQL Database. The other two are elastic pools and managed instance. The single database deployment option creates a database in Azure SQL Database with its own set of resources and is managed via a SQL Database server. With a single database, each database is isolated from each other and portable, each with its own service tier within the DTU-based purchasing model or vCore-based purchasing model and a guaranteed compute size.

A single database can be moved into or out of an elastic pool for resource sharing. For many businesses and applications, being able to create single databases and dial performance up or down on demand is enough, especially if usage patterns are relatively predictable.

Create a single database

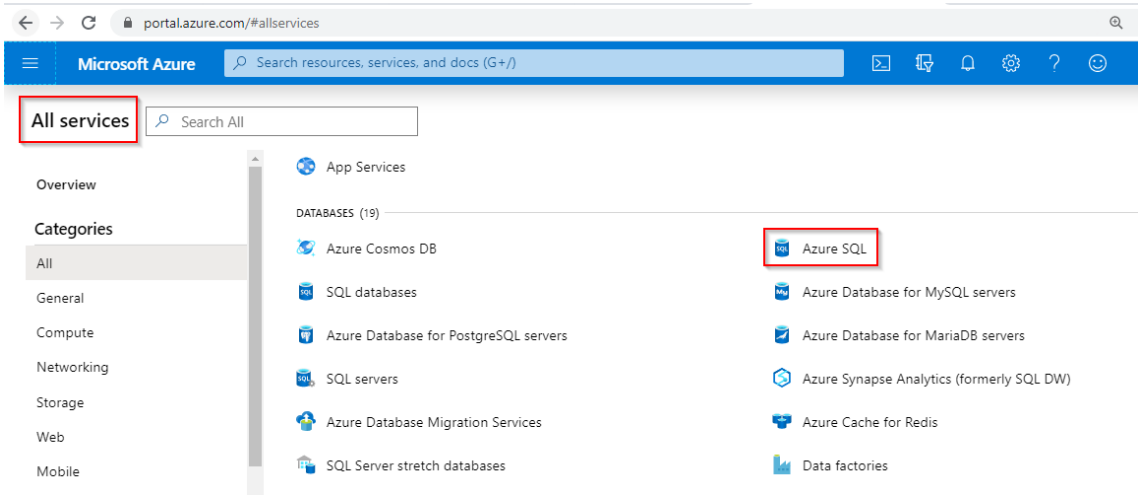
A single database can either be created in the **provisioned** or **serverless compute tier**.

- A single database in the **provisioned compute tier** is pre-allocated a fixed amount of compute resources including CPU and memory using one of two purchasing models.
- A single database in the **serverless compute tier** has a range of compute resources including CPU and memory that are auto-scaled and is only available in the vCore-based purchasing models.

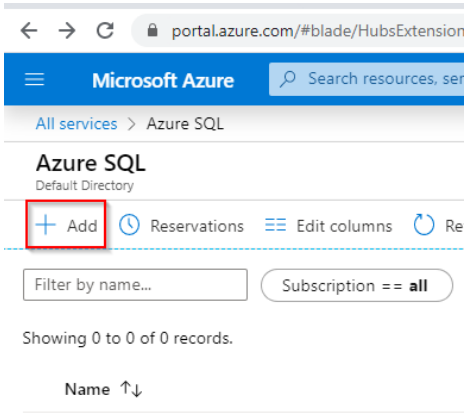
Note: When you create a single database, you also define a SQL Database server to manage it and place it within Azure resource group in a specified region.

Create your resource group and single database using the Azure portal.

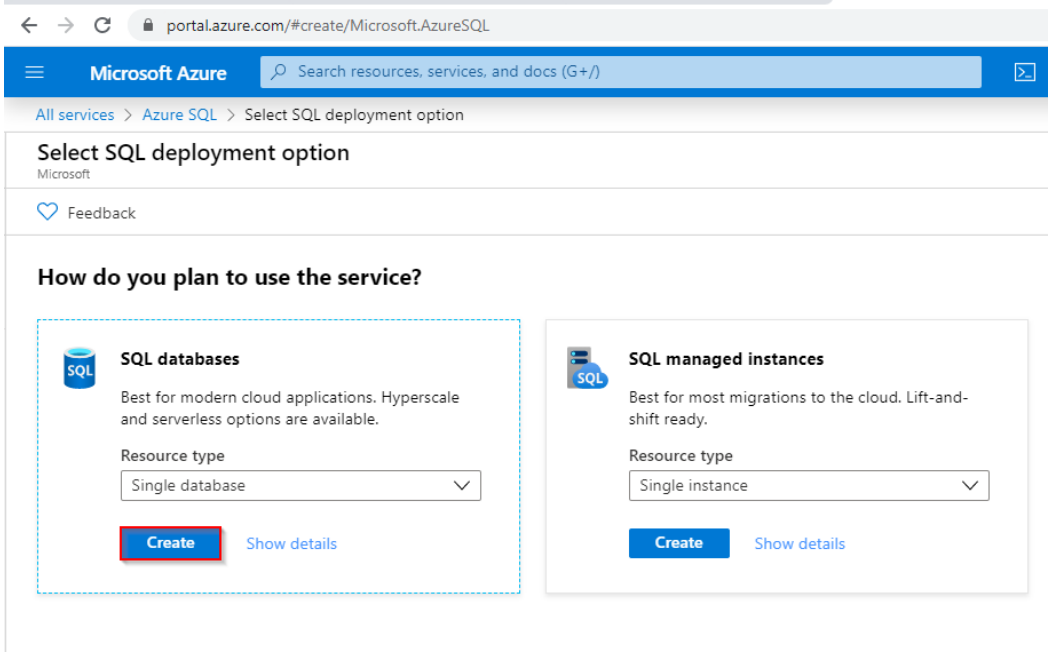
1. Go to Azure Portal and Select **Azure SQL** from **All services**



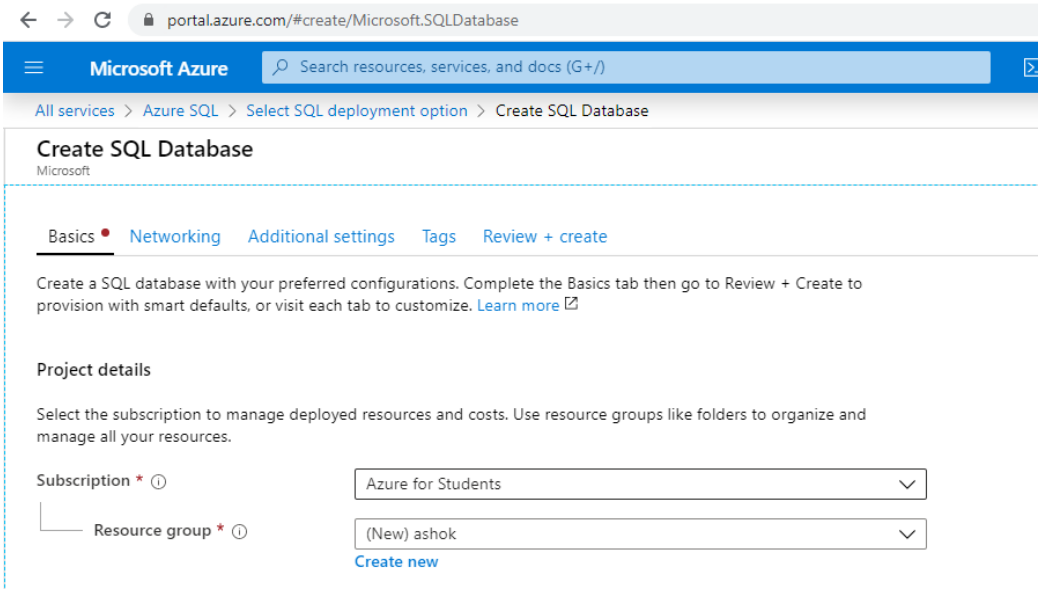
2. Select **+ Add** to open the Select **SQL deployment** option page.



3. Select **Create**:

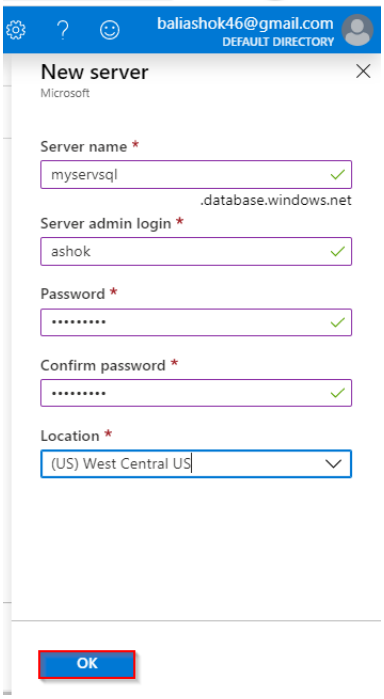


4. On the **Basics tab**, in the **Project Details** section, type or select the following values:
Subscription: Drop down and select the correct subscription, if it doesn't appear.
Resource group: Select Create new, type you resource name, and select OK.

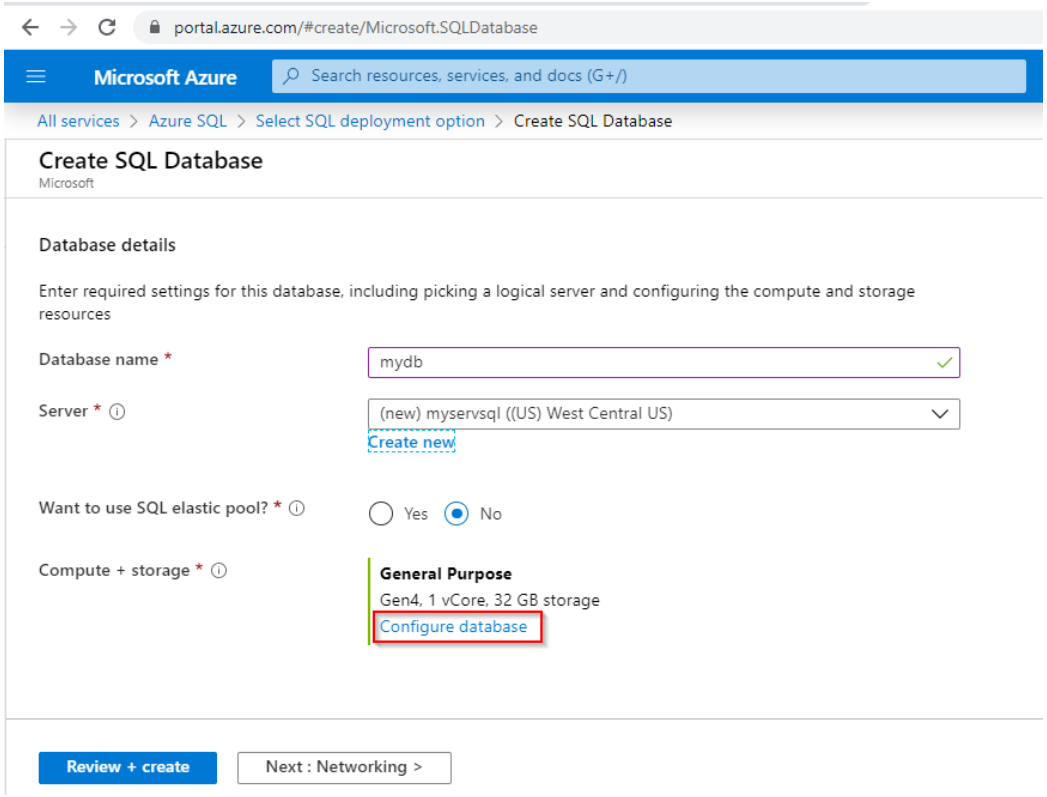


5. In the **Database** Details section, type or select the following values:

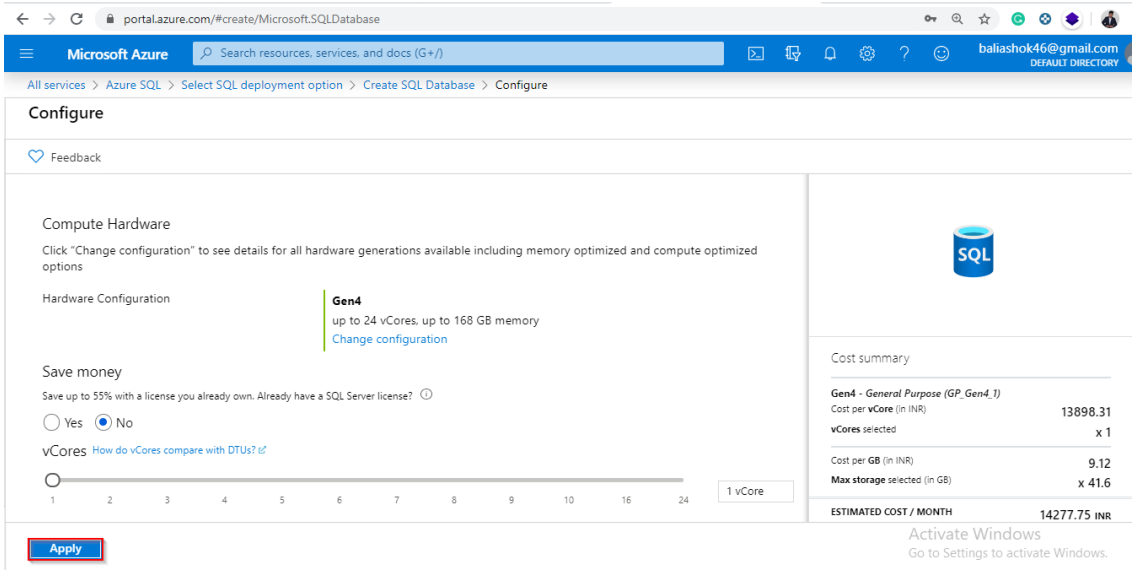
   - **Database name:** Enter mydb
   - **Server:** Select **Create new**, enter the following values and then select **Select**.
     - **Server name:** Type myservsql
     - **Server admin login:** Type ashok
     - **Password:** Type a complex password that meets password requirements.
     - **Location:** Choose a location from the drop-down, such as West US.



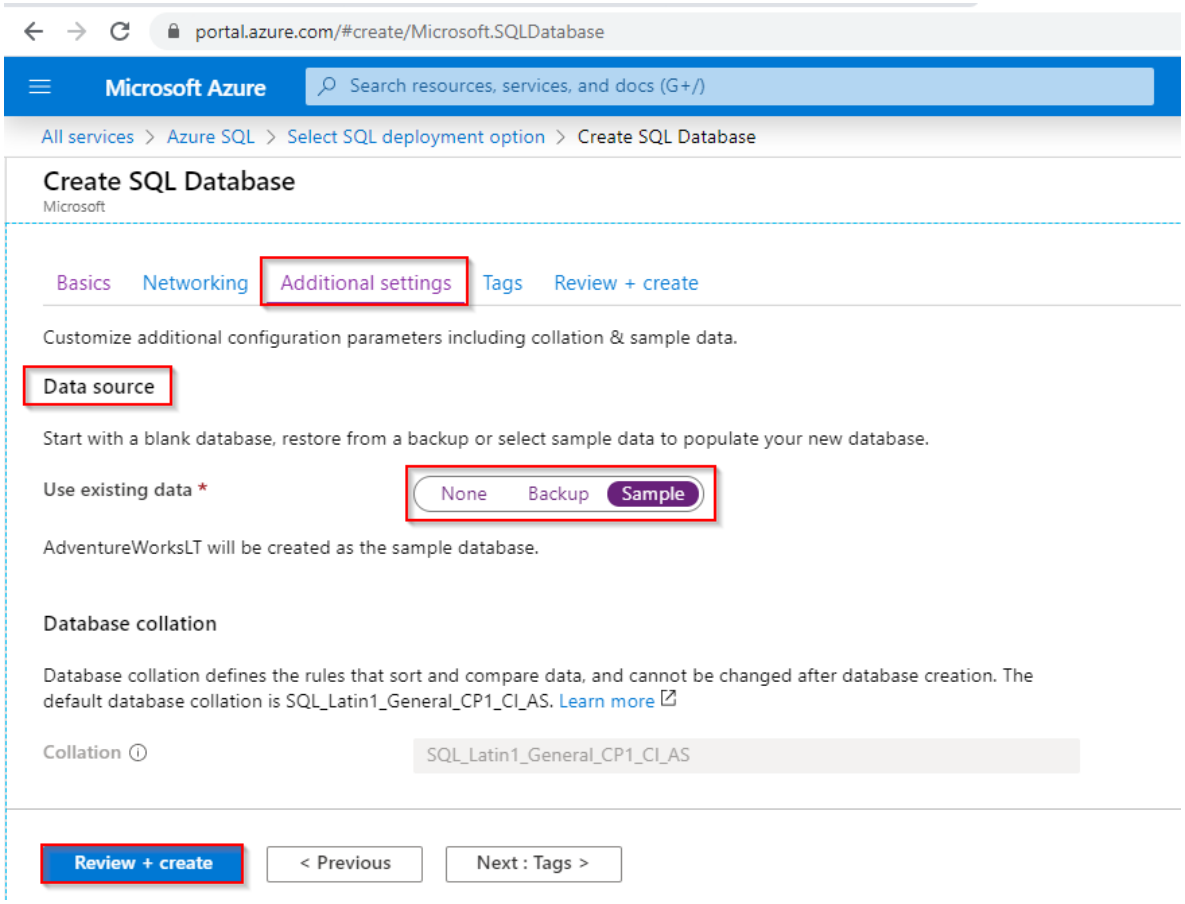
- **Want to use SQL elastic pool:** Select the No option.
- **Compute + storage:** Select Configure database.



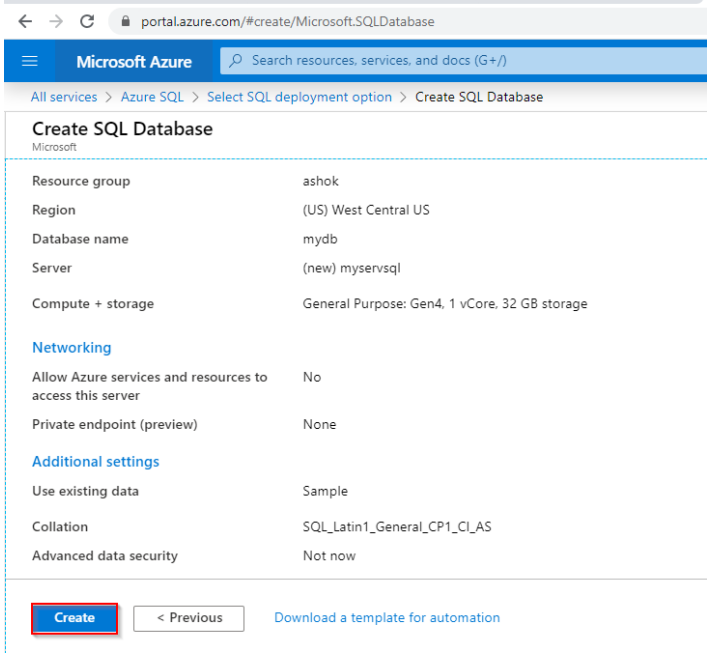
- Review the settings for **vCores**, and **Data max size**. Change these as desired.
    - Optionally, you can also select **Change configuration** to change the hardware generation.
- Select **Apply.**

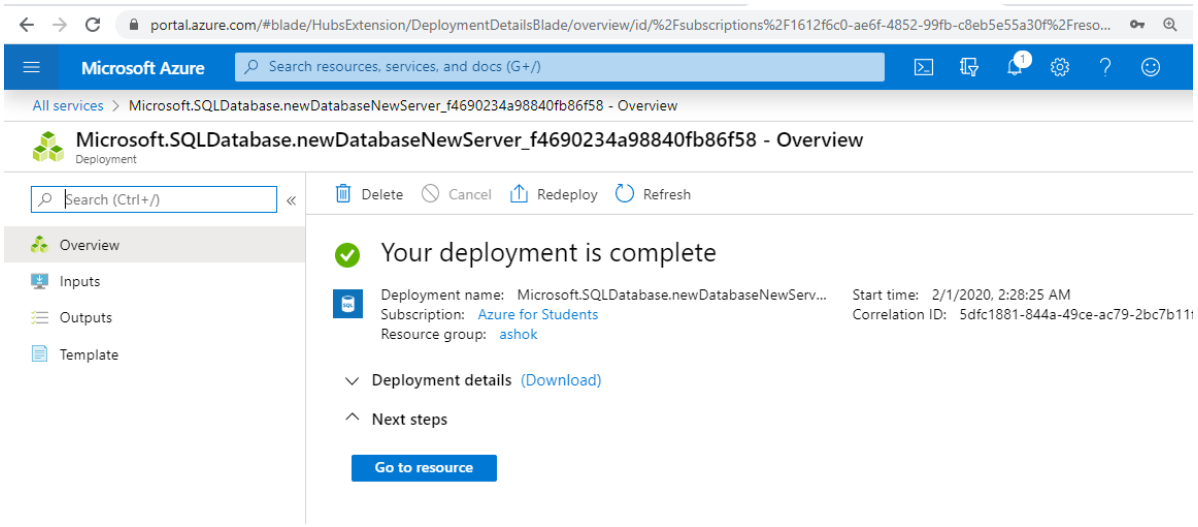


6. Select the **Additional settings tab.**
7. In the **Data source** section, under **Use existing data**, select **Sample** and select **Review + Create** at the bottom of the form.

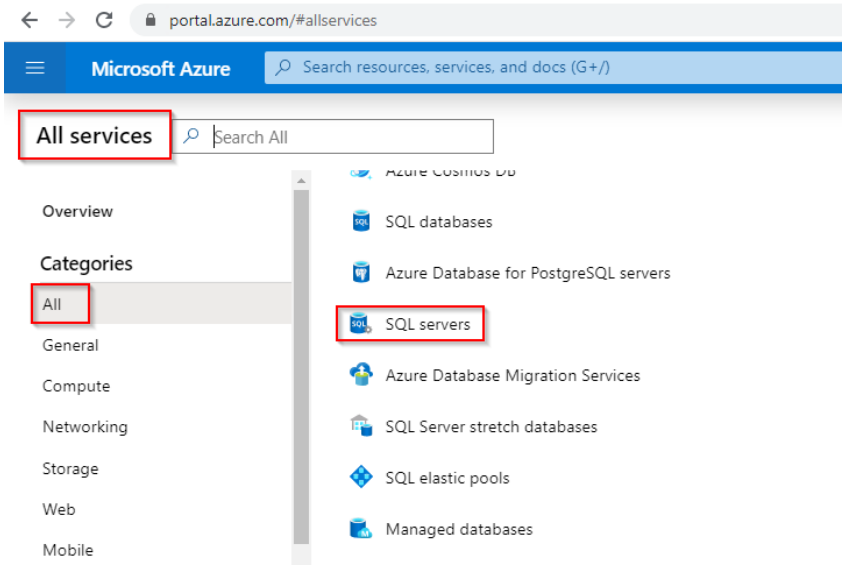


8. Select **Apply**

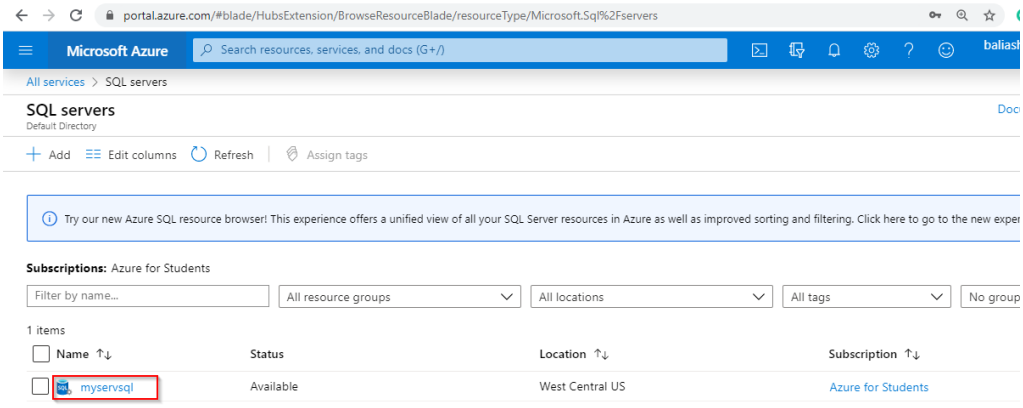




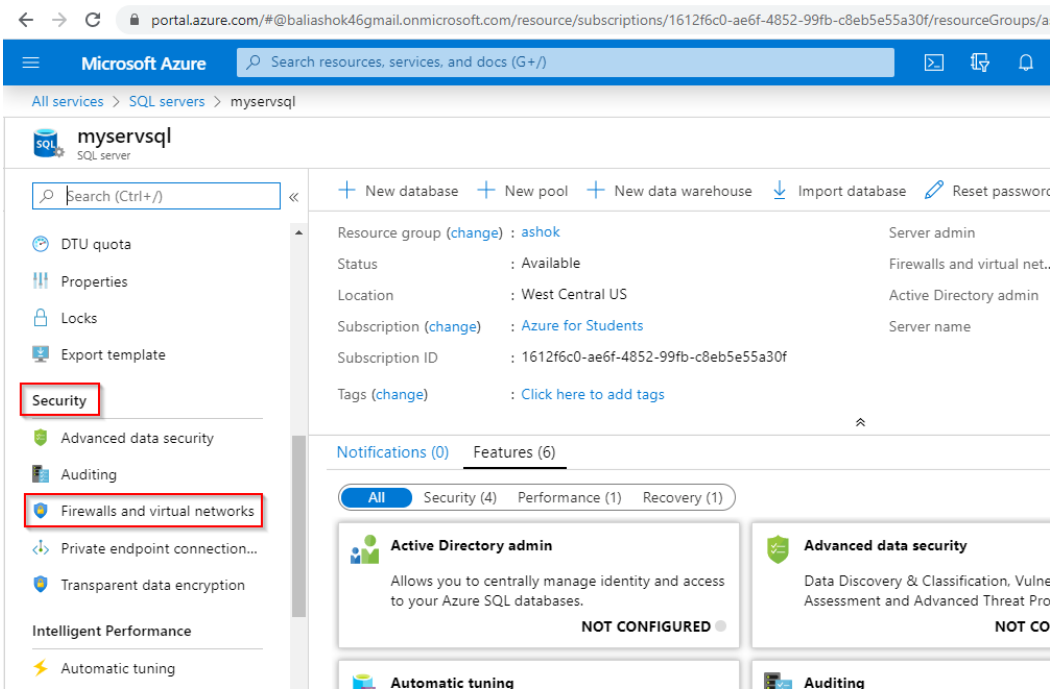
9. You need to configure the Firewall and manage the IP addresses in SQL Server Once you have selected the SQL Server, not the SQL database.
   - Go to **all services** and select **SQL Servers**



   - Select **myservsql**

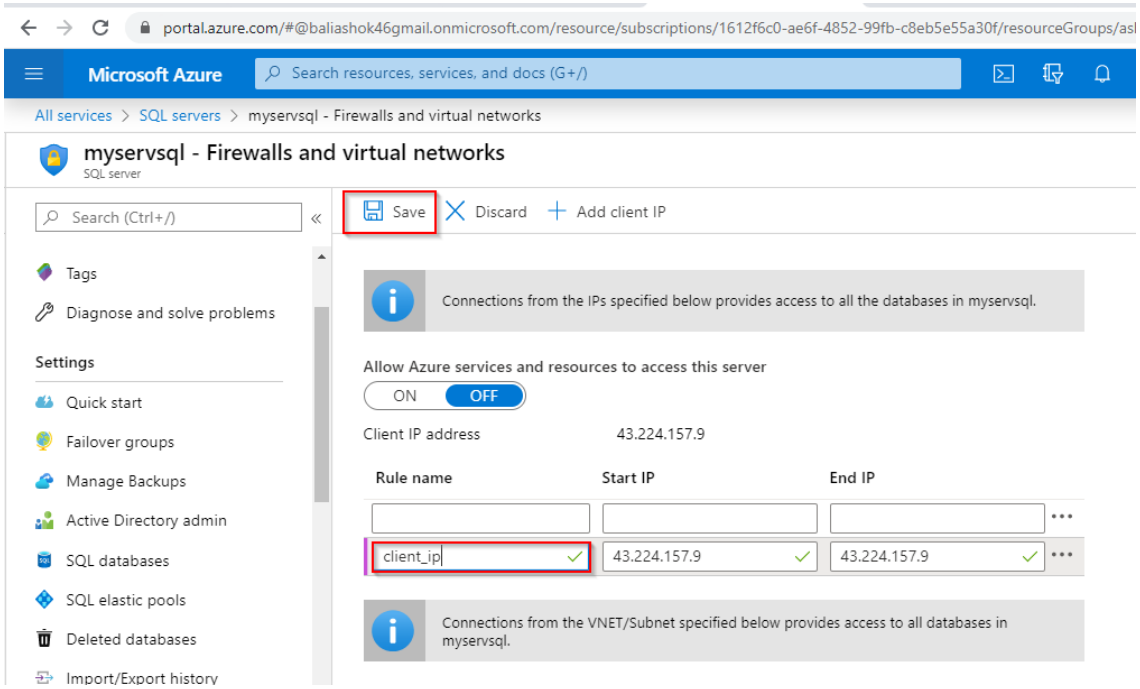


- Click on **Security -> Firewalls and virtual networks**



- Click on **add client IP**.
- Add a name and enter the IP address(or the range) that will access the database.

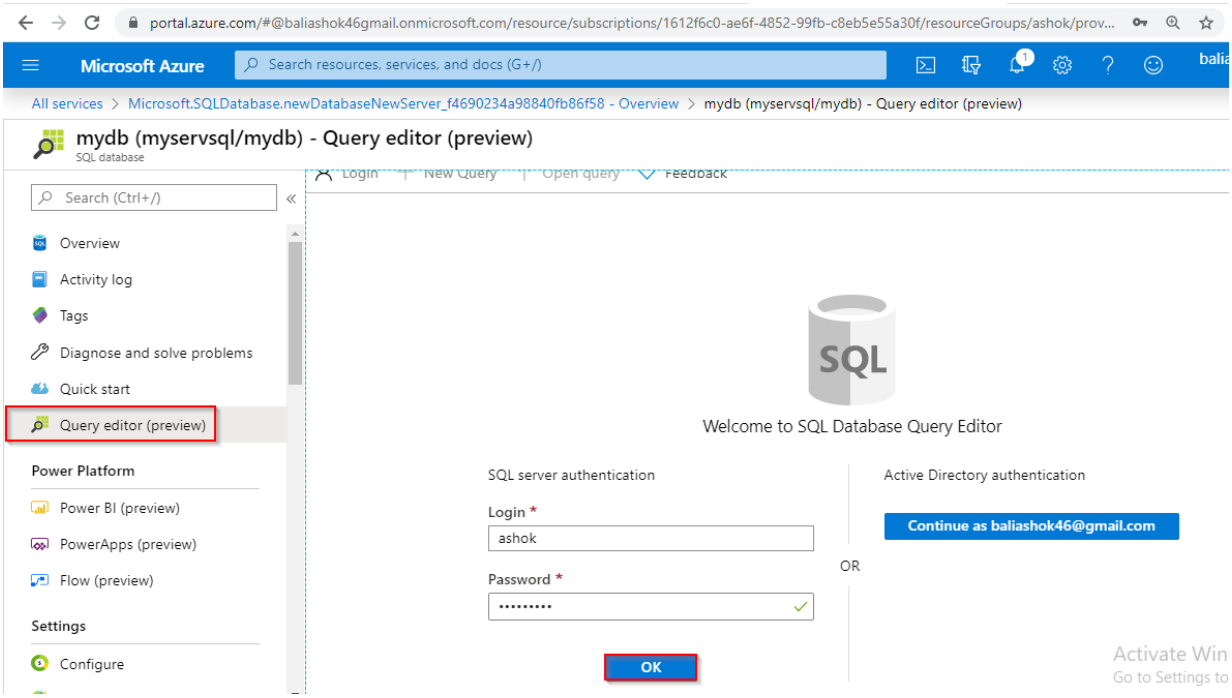
Note: Azure automatically detects your current IP.

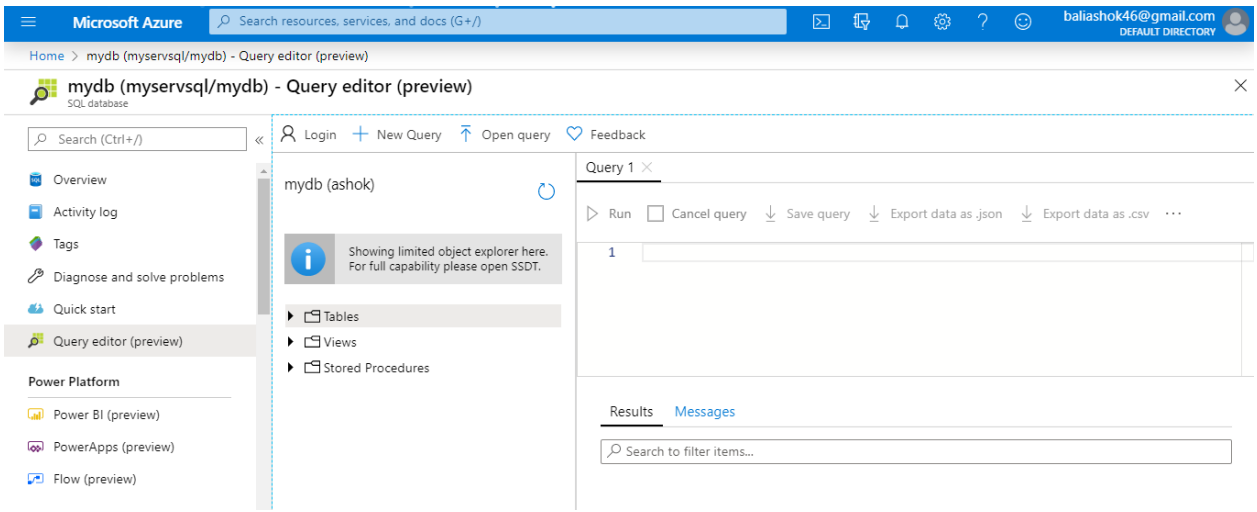


Query the database

We have already created the database. Now we are going to use the built-in query tool in the Azure portal to connect to the database and query the data.

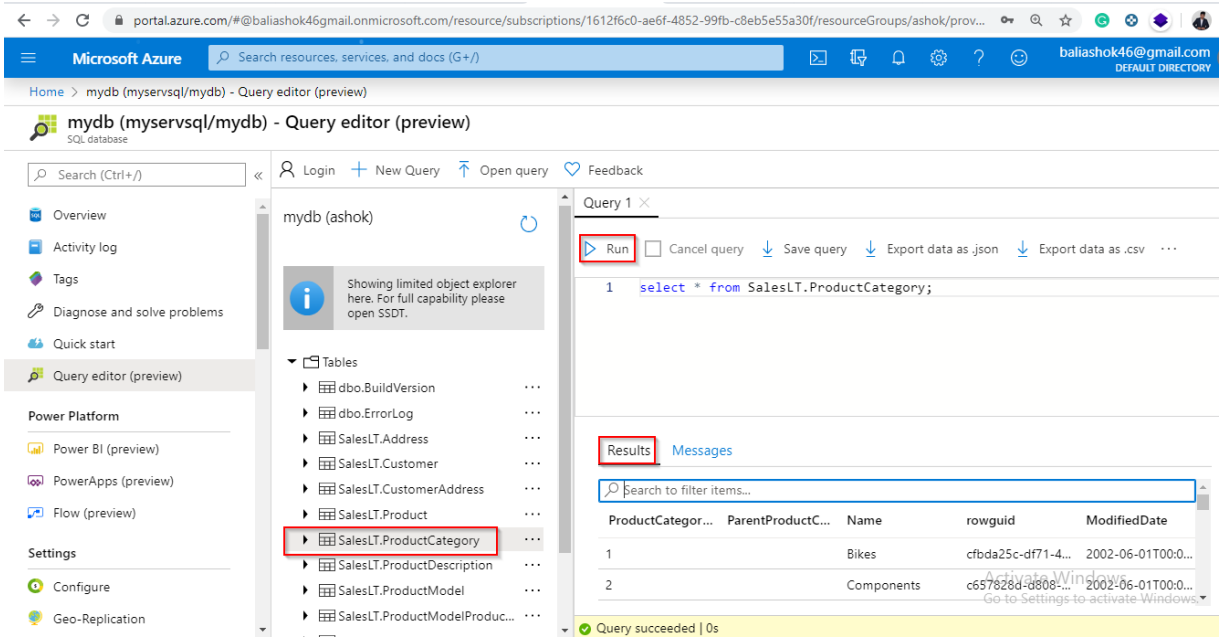
1. On the **SQL Database** page for your database, select **Query editor (preview)** in the left menu. Enter your login information, and select **OK**.





2. Enter the following query in the Query editor pane. select Run, and then review the query results in the Results pane.

```
select * from SalesLT.ProductCategory;
```



3. Close the Query editor page and select OK when prompted to discard your unsaved edits.