06 - Create a SQL database (5 min)

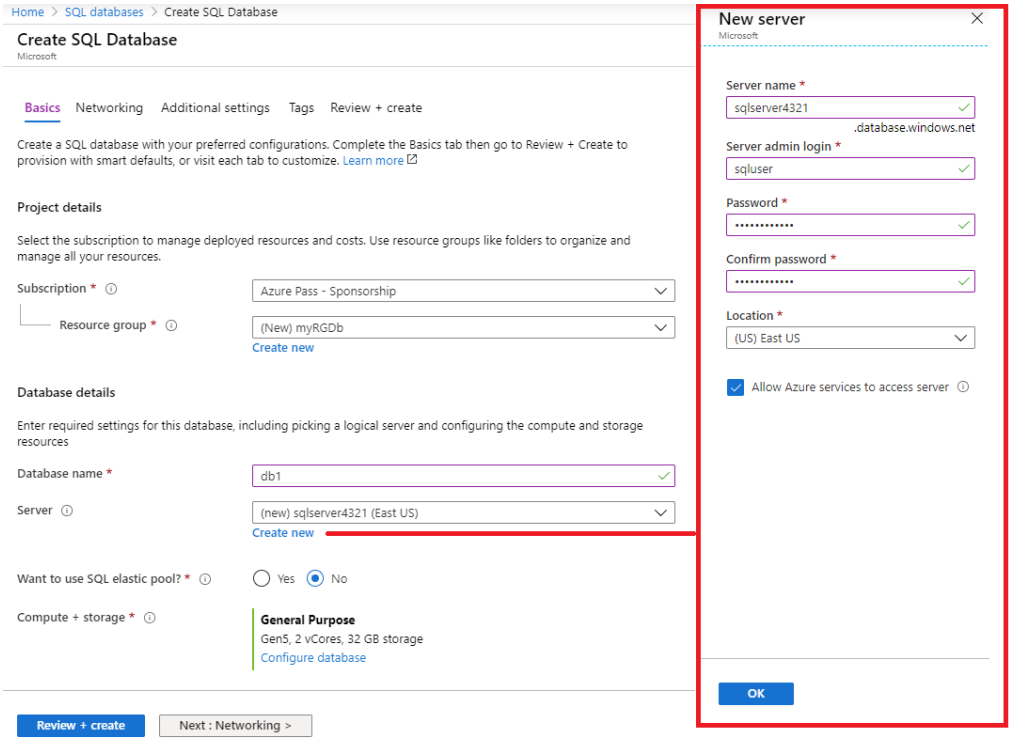
In this walkthrough, we will create a SQL database in Azure and then query the data in that database.

Task 1: Create the database

In this task, we will create a SQL database based on the AdventureWorksLT sample database.

1. Sign in to the Azure portal at **https://portal.azure.com**.
2. From the **All services** blade, search for and select **SQL databases**, and then click **+ Add, + Create, + New**.
3. On the **Basics** tab, fill in this information.

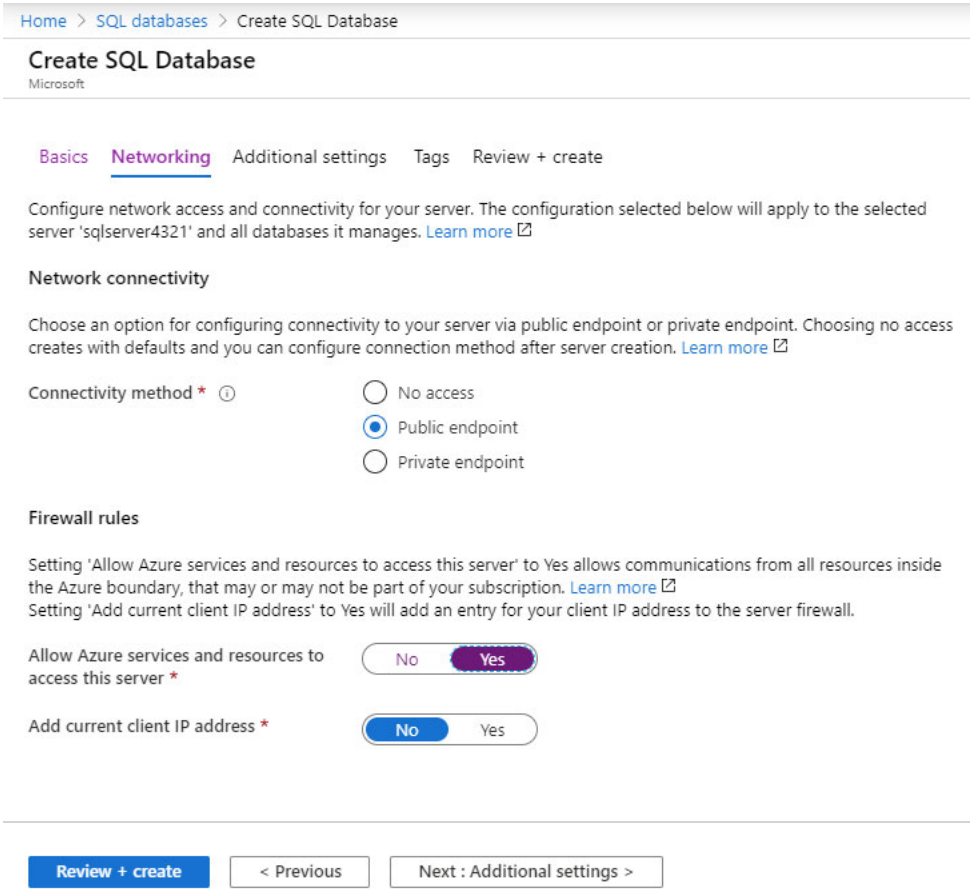
Setting	Value
Subscription	**Use default supplied**
Resource group	**Create new resource group**
Database name	**db1**
Server	Select **Create new** (A new sidebar will open on the right)
Server name	**sqlserverxxxx** (must be unique)
Location	**(US) East US**
Authentication method	**Use SQL authentication**
Server admin login	**sqluser**
Password	**Pa$$w0rd1234**
Click	**OK**



4. On the **Networking** tab and configure the following settings (leave others with their defaults)

Setting	Value

Setting	Value
Connectivity method	**Public endpoint**
Allow Azure services and resources to access this server	**Yes**
Add current client IP address	**No**

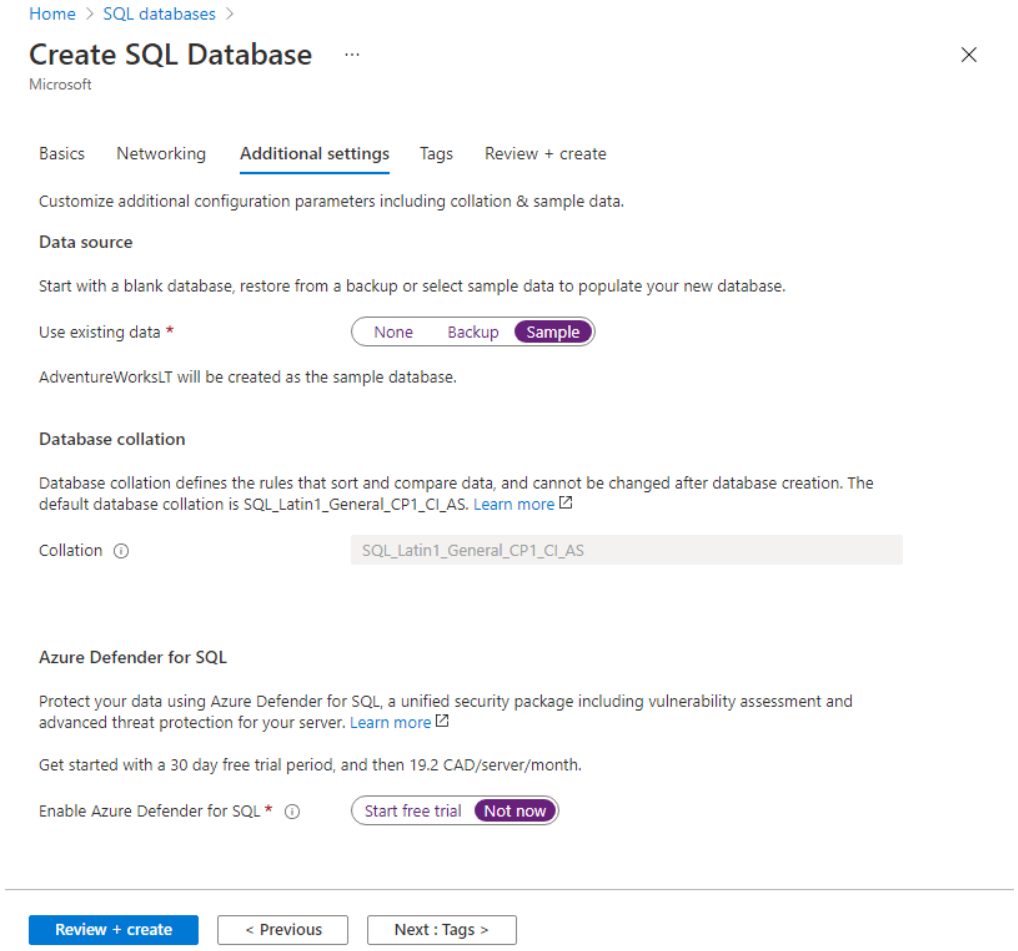


5. On the **Security** tab.

Setting	Value
Microsoft Defender for SQL	**Not now**

6. Move to the **Additional settings** tab. We will be using the AdventureWorksLT sample database.

Setting	Value
Use existing data	**Sample**

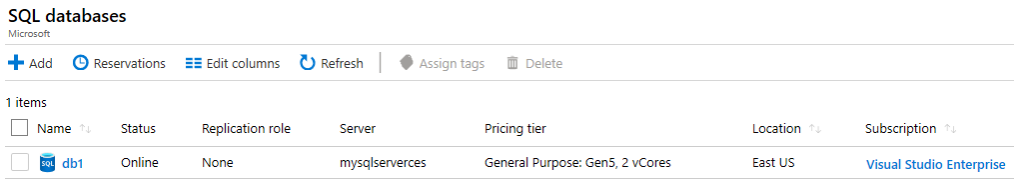


7. Click **Review + create** and then click **Create** to deploy and provision the resource group, server, and database. It can take approx. 2 to 5 minutes to deploy.

Task 2: Test the database.

In this task, we will configure the SQL server and run a SQL query.

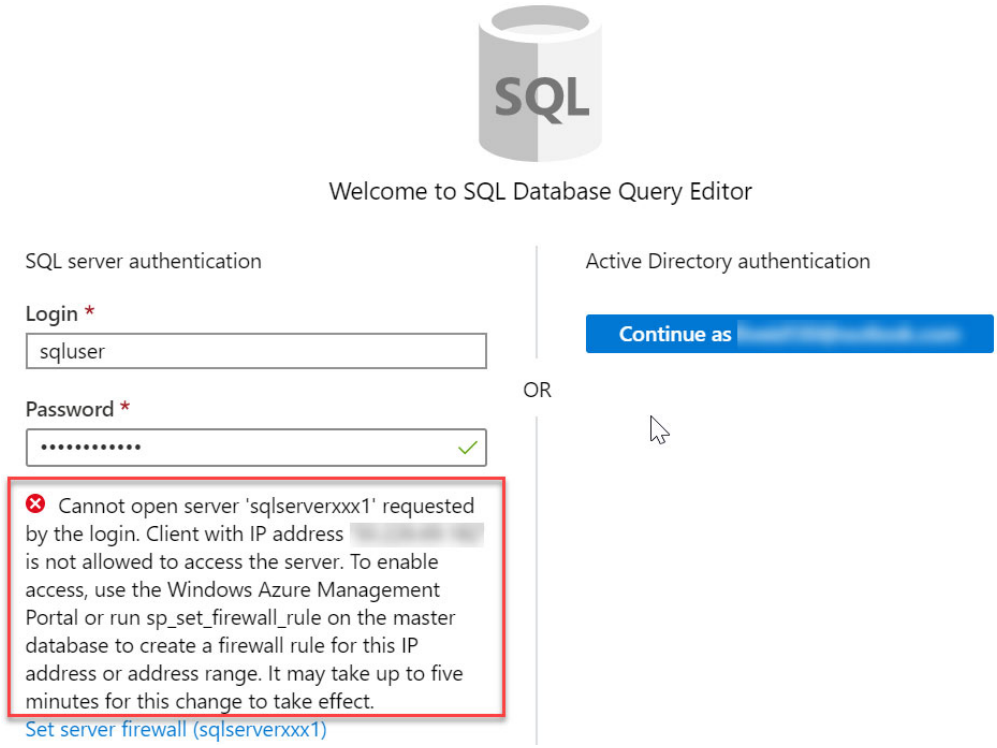
1. When the deployment has completed, click Go to resource from the deployment blade. Alternatively, from the **All Resources** blade, search and select **Databases**, then **SQL databases** ensure your new database was created. You may need to **Refresh** the page.



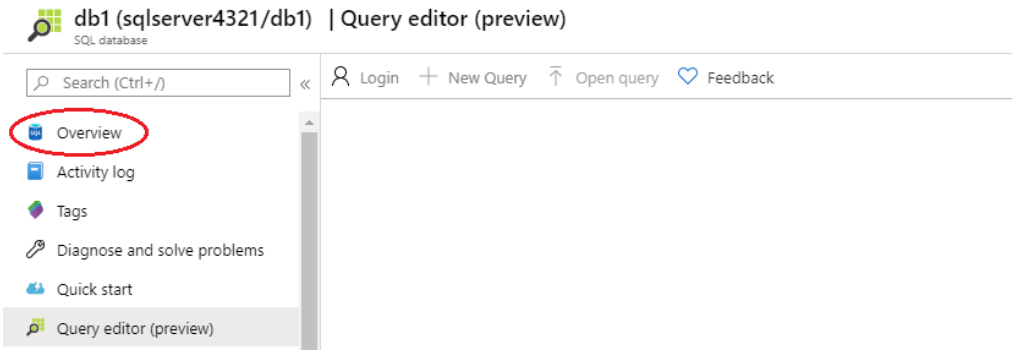
2. Click the **db1** entry representing the SQL database you created. On the db1 blade click **Query editor (preview)**.

3. Login as **sqluser** with the password **Pa$$w0rd1234**.

4. You will not be able to login. Read the error closely and make note of the IP address that needs to be allowed through the firewall.

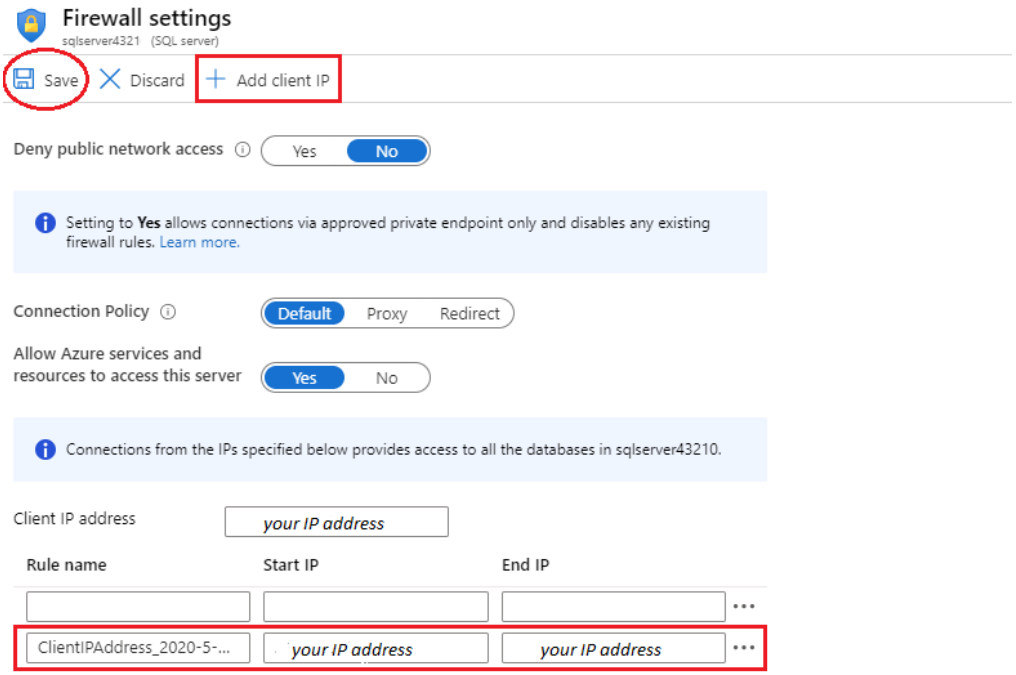


5. Back on the **db1** blade, click **Overview**.



6. From the db1 **Overview** blade, click **Set server firewall** Located on the top center of the overview screen.

7. Click **+ Add client IP** (top menu bar) to add the IP address referenced in the error. (it may have autofilled for you - if not paste it into the IP address fields). Be sure to **Save** your changes.

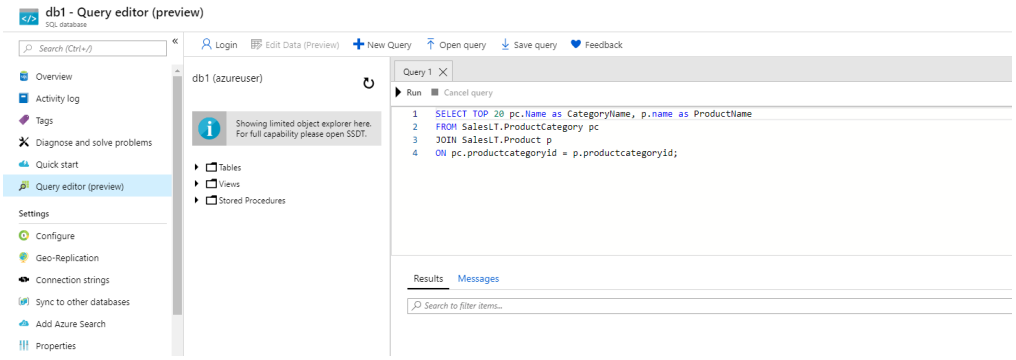


8. Return to your SQL database (slide the bottom toggle bar to the left) and click on **Query Editor (Preview)**. Try to login again as **sqluser** with the password **Pa$$w0rd1234**. This time you should succeed. Note that it may take a couple of minutes for the new firewall rule to be deployed.

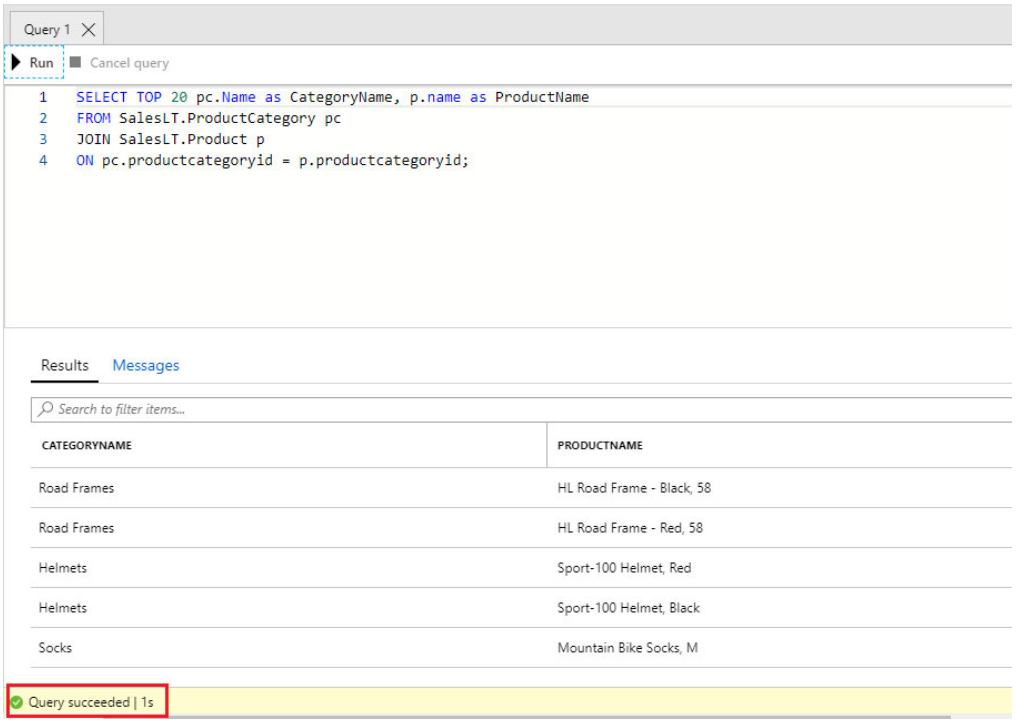
9. Once you log in successfully, the query pane appears. Enter the following query into the editor pane.

Code Copy

```
SELECT TOP 20 pc.Name as CategoryName, p.name as ProductName
FROM SalesLT.ProductCategory pc
JOIN SalesLT.Product p
ON pc.productcategoryid = p.productcategoryid;
```



10. Click **Run**, and then review the query results in the **Results** pane. The query should run successfully.



Congratulations! You have created a SQL database in Azure and successfully queried the data in that database.

Note: To avoid additional costs, you can optionally remove this resource group. Search for resource groups, click your resource group, and then click **Delete resource group**. Verify the name of the resource group and then click **Delete**. Monitor the **Notifications** to see how the delete is proceeding.