06 - Create a SQL database (5 min)

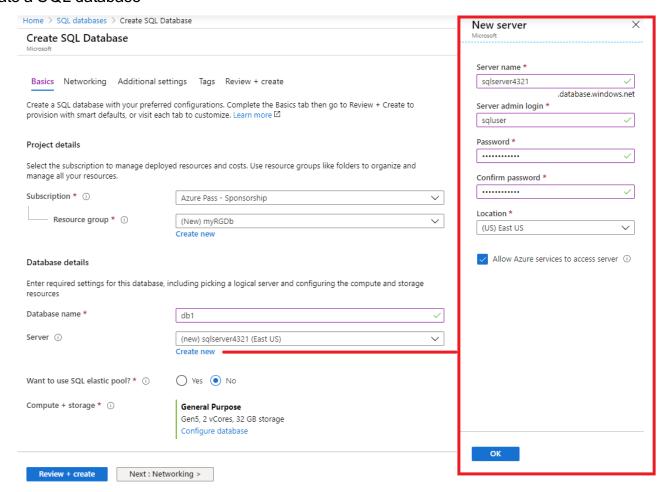
In this walkthrough, we will create a SQL database in Azure and then query the data in that database.

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

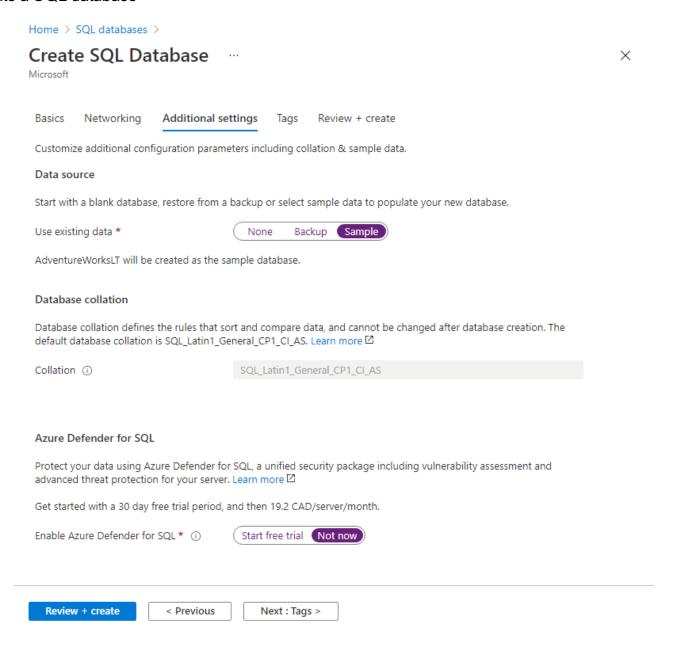
Home > SQL databases > Create SQL Database		
Create SQL Database		
Basics Networking Additional settings Tags Review + create		
Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'sqlserver4321' and all databases it manages. Learn more 🖸		
Network connectivity		
Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. Learn more \square		
Connectivity method * ①		
Public endpoint		
O Private endpoint		
Firewall rules		
Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. Learn more 🖸 Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.		
Allow Azure services and resources to No Yes access this server *		
Add current client IP address * No Yes		
Review + create < Previous Next : Additional settings >		

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

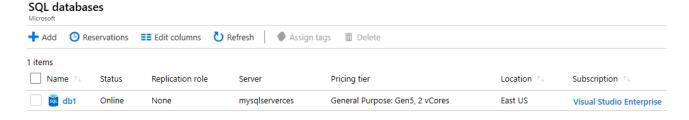


7. Click **Review + create** and then click **Create** to deploy and provision the resource group, server, and database. It can take approx. 2 to 5 minutes to deploy.

Task 2: Test the database.

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

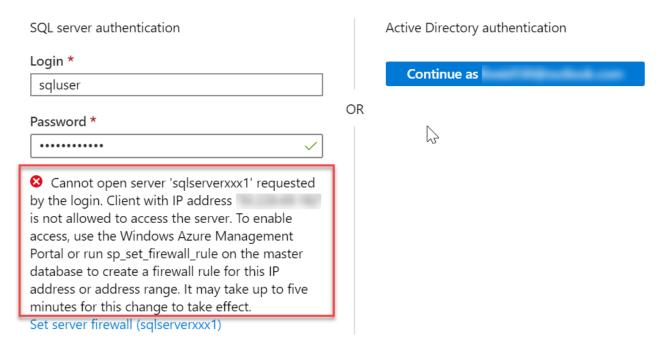
 When the deployment has completed, clickGo to resourcefrom the deployment blade. Alternatively, from the All Resources blade, search and select Databases, then SQL databases ensure your new database was created. You may need to Refresh the page.



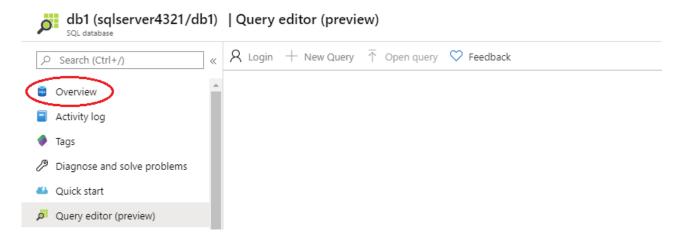
- 2. Click the **db1** entry representing the SQL database you created. On the db1 blade click **Query editor** (preview).
- 3. Login as sqluser with the password Pa\$\$w0rd1234.
- 4. You will not be able to login. Read the error closely and make note of the IP address that needs to be allowed through the firewall.



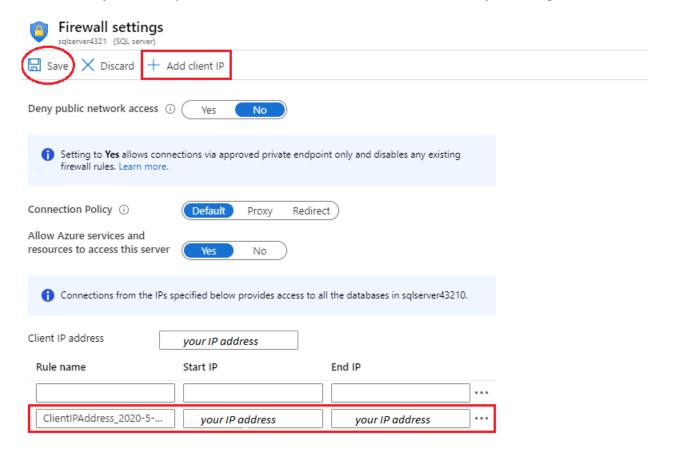
Welcome to SQL Database Query Editor



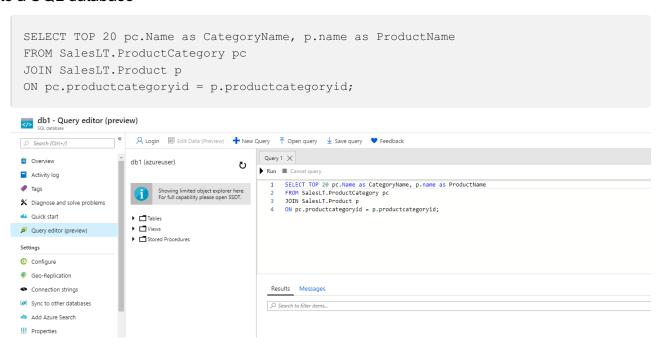
5. Back on the db1 blade, click Overview.



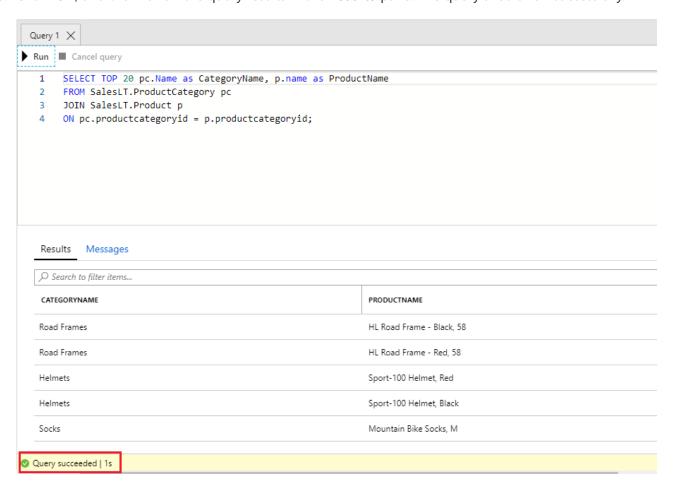
- 6. From the db1 **Overview** blade, click **Set server firewall** Located on the top center of the overview screen.
- 7. Click + Add client IP (top menu bar) to add the IP address referenced in the error. (it may have autofilled for you if not paste it into the IP address fields). Be sure to Save your 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.



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.