06 - Create a SQL database

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

Task 1: Create the database (5 min)

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

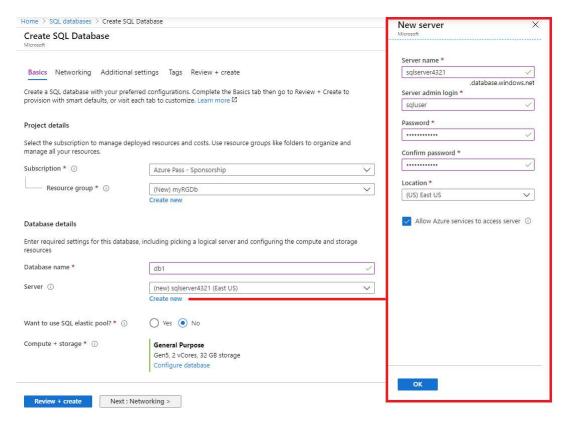
- 1. Sign in to the Azure portal at https://portal.azure.com.
- 2. From the All services blade, search for and select SQL databases, and then click + Add.
- 3. On the **Basics** tab, fill in this information.

Setting	Value
Subscription	Choose your subscription
Resource group	myRGDb (create new)
Database name	db1

4. Next to the **Server** drop down list, click **Create new** and enter this information (replace **xxxx** in the name of the server with letters and digits such that the name is globally unique). Click **OK** when finished.

Setting	Value
Server name	sqlserverxxxx (must be unique)
Server admin login	sqluser
Password	Pa\$\$w0rd1234
Location	(US) East US
Allow Azure services to access server	Select the checkbox

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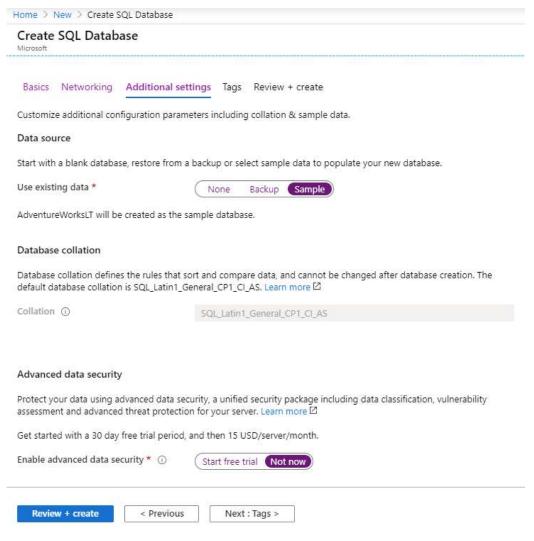


5. Move to the **Networking** tab and configure the following settings (leave others with their defaults)

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

Create SQL Database Microsoft		
Basics Networking Additional	ll settings Tags Review + create	
Configure network access and conne server 'sqlserver4321' and all databas	ctivity for your server. The configuration selected below will apply to the selected ses it manages. Learn more \square	
Network connectivity		
	nnectivity to your server via public endpoint or private endpoint. Choosing no access figure connection method after server creation. Learn more 🗹	
Connectivity method * ①	○ No access	
	Public endpoint	
	Private endpoint	
Firewall rules		
the Azure boundary, that may or may	ources to access this server' to Yes allows communications from all resources inside not be part of your subscription. Learn more 🖸 'to Yes will add an entry for your client IP address to the server firewall.	
Allow Azure services and resources access this server *	to No Yes	
Add current client IP address *	No Yes	
Review + create < Prev	ious Next : Additional settings >	
love to the Additional settings	tab. We will be using the AdventureWorksLT sample database.	
Setting	Value	
Use existing data	Sample	

Setting	value
Use existing data	Sample
Collation	use default
Enable advanced data security	Not now

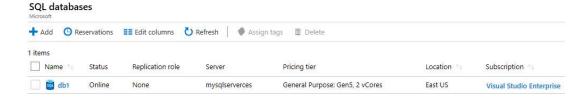


- 7. Click **Review + create** and then click **Create** to deploy and provision the resource group, server, and database. It can take approx. 2 to 5 minutes to deploy.
- 8. Go to the resource tab to locate the SQL database you created. You may need to refresh.

Task 2: Test the database.

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

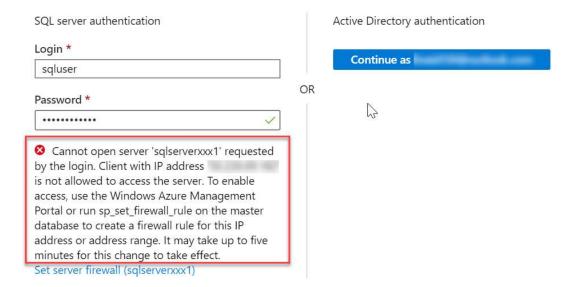
1. From the **All services** blade, search and select **SQL databases** and ensure your new database was created. You may need to **Refresh** the page.



- 2. Click the db1 entry representing the SQL database you created, and then 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

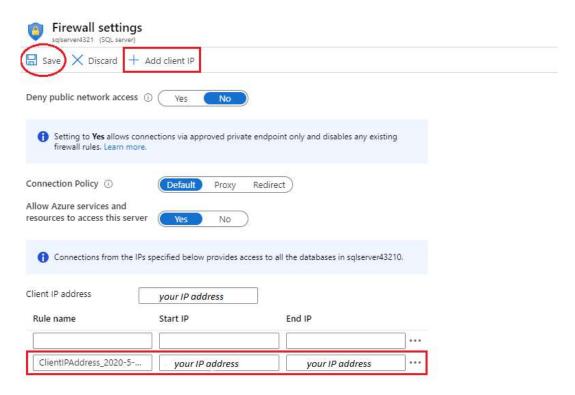


5. From the **db1** blade, click **Overview**.

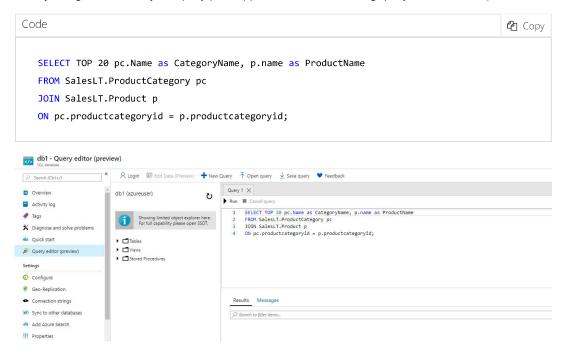


- 6. From the SQL server **Overview** blade, click **Set server firewall**.
- 7. Click **Add client IP** (top menu bar) to add the IP address referenced in the error. Be sure to **Save** your changes.

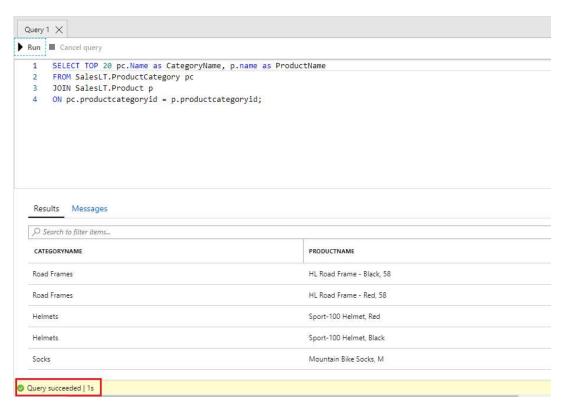
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- 8. Return to your SQL database and the Query Editor (Preview) login page. Try to login again as sqluser with the password Pa\$\$w0rd1234. This time you should succeed. Note that it may take a couple of minutes for the new firewall rule to be deployed.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