

Azure SQL-DB

The goal:

1. Create a resource group.
2. Understand the process of creating Azure SQL server
3. Create Azure SQL database
4. Create firewall rules to allow access to SQL server
5. Connect the database via query editor
6. Connect the database via client tool
7. Terminate Resources

A. Create resource group:

The screenshot shows the Azure portal's 'Resource groups' page. The page title is 'Resource groups' with a 'Default Directory' subtitle. Below the title, there are links for '+ Create', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', and 'Assign tags'. A filter bar shows 'Filter for any field...' with active filters for 'Subscription equals all' and 'Location equals all'. The table below shows two resource groups:

Name	Subscription	Location
GL-SQL-RG	Azure subscription 1	East US
NetworkWatcherRG	Azure subscription 1	East US

At the bottom, there is a pagination bar showing 'Page 1 of 1' and a 'Give feedback' link.

B. Create Azure SQL server:

The screenshot shows the Microsoft Azure portal interface. The main heading is "Microsoft.SQLServer.createServer_c7591403296b43a2803c45e...". Below the heading, there's a search bar and a set of action buttons: Delete, Cancel, Redeploy, Download, and Refresh. A sidebar on the left contains links to Overview, Inputs, Outputs, and Template. The main content area displays a green checkmark and the text "Your deployment is complete". Below this, deployment details are listed: Deployment name, Subscription (Azure subscription 1), Resource group (GL-SQL-RG), Start time (10/25/2023, 2:01:42 PM), and Correlation ID. A "Deployment details" section is expanded, showing "Next steps" with a "Go to resource" button. At the bottom, there's a "Cost management" section with a link to "Set up cost alerts". On the right, a "Notifications" panel shows two events: "Deployment succeeded" and "Resource group created", both with "Go to resource" and "Pin to dashboard" buttons.

C. Create SQL DB:

The screenshot shows the Microsoft Azure portal interface for a deployment of a Microsoft.SQLDatabase.newDatabaseExistingServer resource. The main heading is "Microsoft.SQLDatabase.newDatabaseExistingServer_7d70c48043094131 | Overview". Below the heading, there's a search bar and a set of action buttons: Delete, Cancel, Redeploy, Download, and Refresh. A sidebar on the left contains links to Overview, Inputs, Outputs, and Template. The main content area displays a green checkmark and the text "Your deployment is complete". Below this, deployment details are listed: Deployment name, Subscription (Azure subscription 1), Resource group (GL-SQL-RG), Start time (10/25/2023, 2:06:46 PM), and Correlation ID. A "Deployment details" section is expanded, showing "Next steps" with a "Go to resource" button. At the bottom, there's a "Cost management" section with a link to "Set up cost alerts". On the right, a sidebar contains several links: "Cost management", "Microsoft Defender for Cloud", "Free Microsoft tutorials", and "Work with an expert".

D. Create firewall rules to allow access to SQL server

E. Connect database via query editor

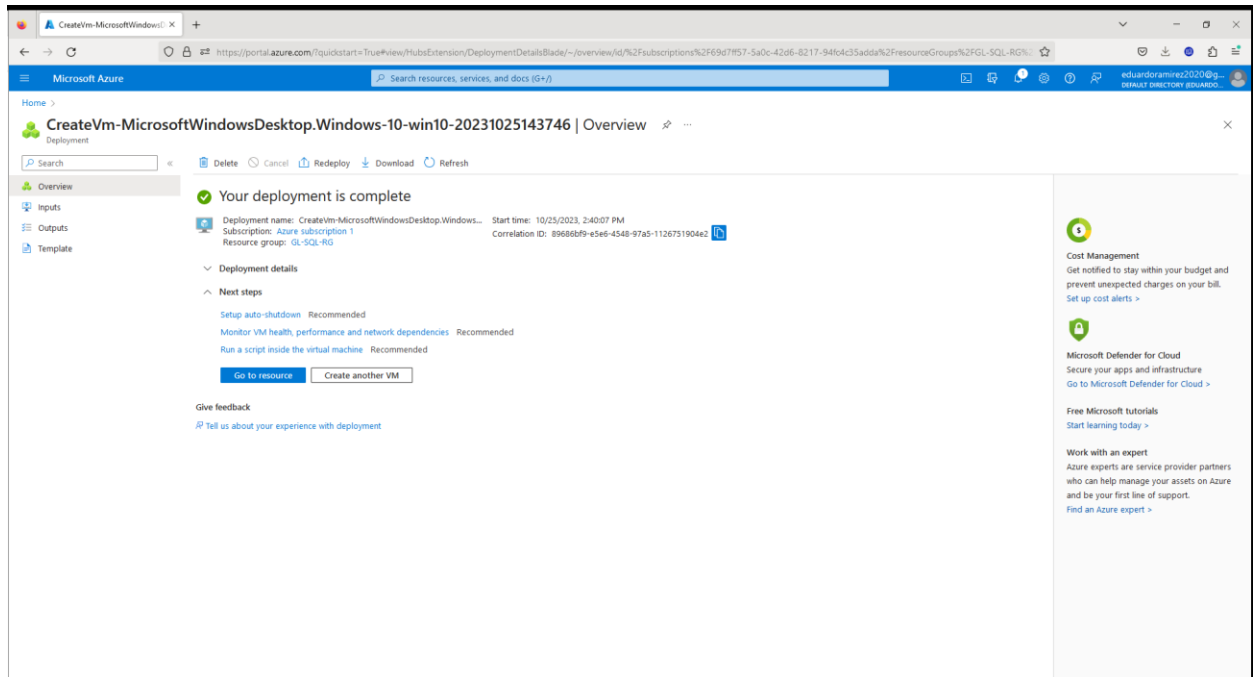
The screenshot shows the Microsoft Azure portal interface. On the left, the 'SQL databases' section is expanded, showing 'SampleDB (glsqserver011/SampleDB)'. The main area displays the 'Query editor (preview)' for 'SampleDB (mbadmin)'. The editor shows a message: 'Showing limited object explorer here. For full capability please click here to open Azure Data Studio.' The right sidebar shows the 'Query 1' editor with a 'Run' button and options to 'Cancel query', 'Save query', and 'Export data as'. Below the editor, there are tabs for 'Results' and 'Messages'.

The screenshot shows the Microsoft Azure portal interface. On the left, the 'SQL databases' section is expanded, showing 'SampleDB (glsqserver011/SampleDB)'. The main area displays the 'Query editor (preview)' for 'SampleDB (mbadmin)'. The editor shows a query: `select * from [SalesLT].[Customer]`. The right sidebar shows the 'Query 1' editor with a 'Run' button and options to 'Cancel query', 'Save query', 'Export data as', and 'Show only Editor'. Below the editor, there are tabs for 'Results' and 'Messages'. The 'Results' tab is active, showing a table with 5 rows and 4 columns: CustomerID, NameStyle, Title, and FirstName.

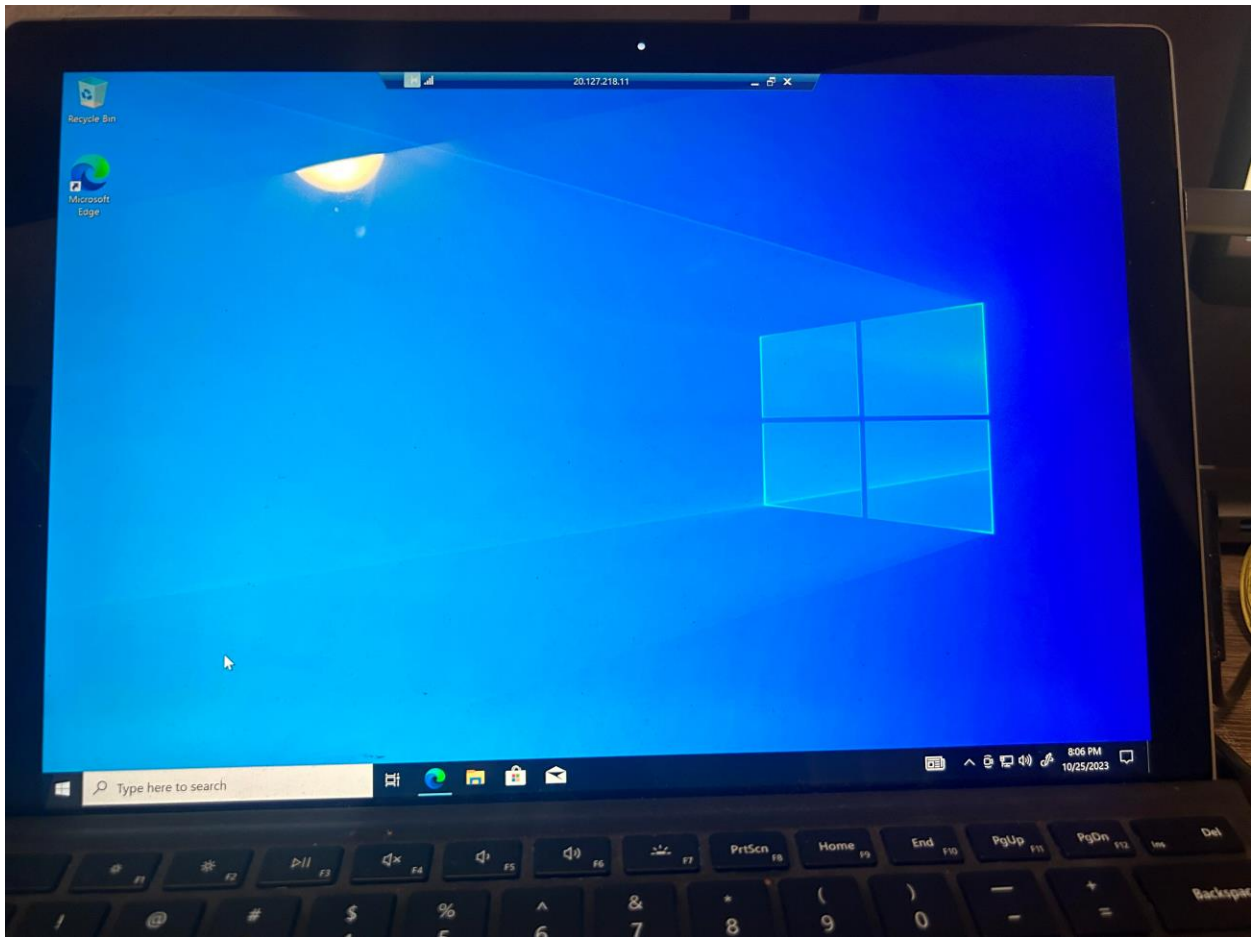
CustomerID	NameStyle	Title	FirstName
1	False	Mr.	Orlando
2	False	Mr.	Keith
3	False	Ms.	Donna
4	False	Ms.	Janet
5	False	Mr.	Lucy

Query succeeded | 2s

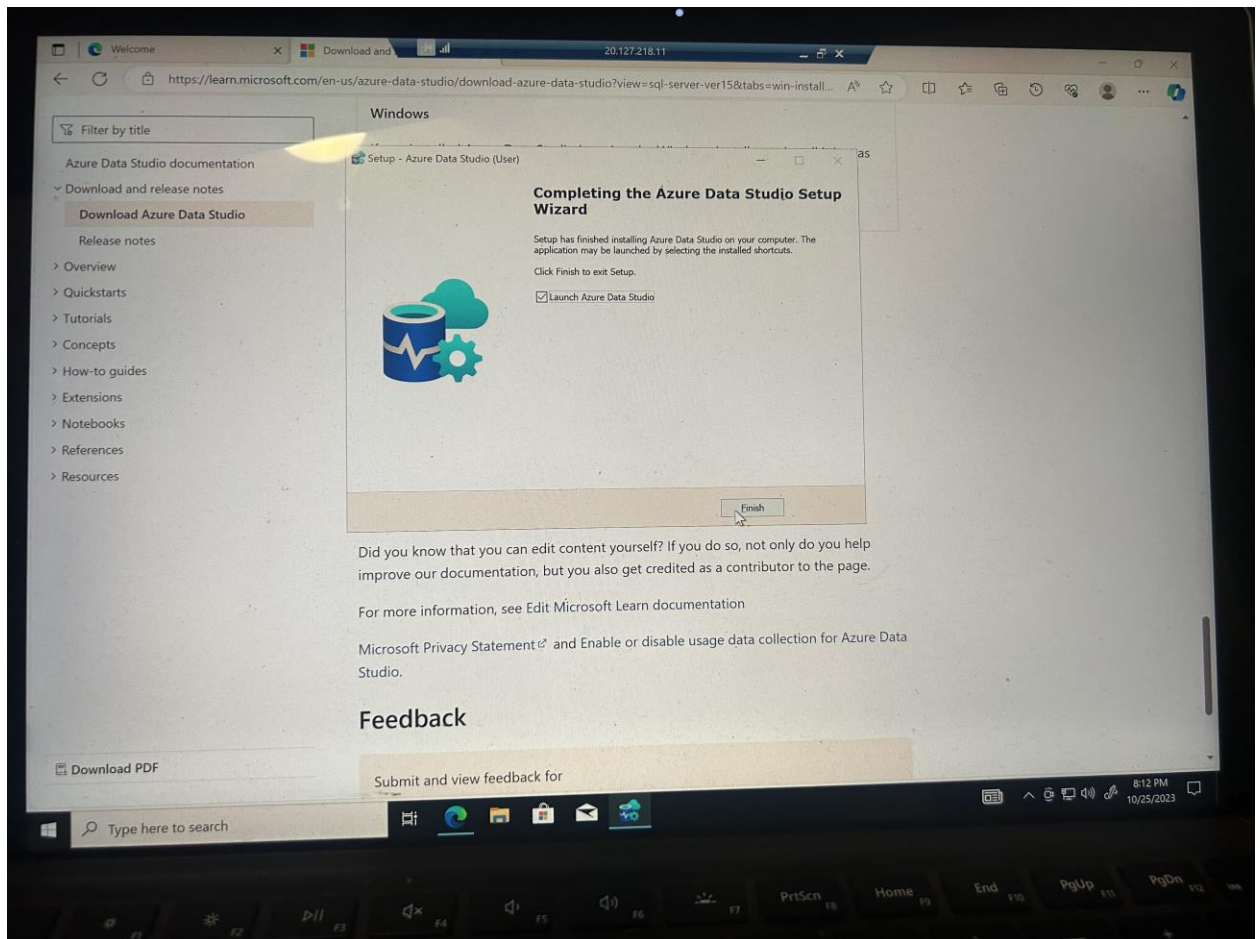
F. Connect DB via client tool.



CREATE A VM AND RDP INTO THE VM: (PICTURE OF VM)



Downloading Complete of Azure Data Studio:



Establish Connection from Azure Data Studio to the server and write queries on your sampled b:

https://learn.microsoft.com/en-us/azure-data-studio/download-azure-data-studio?view=sql-server-ver15&tabs=win-install...

File Edit View Help • SQLQuery_1 - gisqlserver011.database.windows.net:SampleDB (mbadmin) - Azure Data Studio [Admin...]

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Resources

Run Connect Change Database: SampleDB Estimated Plan Enable Actual Plan Parse Enable SQLCMD To Notebook

```
1 select * FROM [SalesLT].[Customer]
```

Results Messages

	CustomerID	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	CompanyName
1	1	0	Mr.	Orlando	N.	Gee	NULL	A Bike Store
2	2	0	Mr.	Kelth	NULL	Harris	NULL	Progressive Spor
3	3	0	Ms.	Donna	F.	Carreras	NULL	Advanced Bike Co
4	4	0	Ms.	Janet	M.	Gates	NULL	Modular Cycle S
5	5	0	Mr.	Lucy	NULL	Harrington	NULL	Metropolitan Sp
6	6	0	Ms.	Rosmarie	J.	Carroll	NULL	Aerobic Exercise
7	7	0	Mr.	Dominic	P.	Gash	NULL	Associated Bikes
8	10	0	Ms.	Kathleen	M.	Garza	NULL	Rural Cycle Emp
9	11	0	Ms.	Katherine	NULL	Harding	NULL	Sharp Bikes
10	12	0	Mr.	Johnny	A.	Caprio	Jr.	Bikes and Motort
11	16	0	Mr.	Christopher	R.	Beck	Jr.	Bulk Discount St
12	18	0	Mr.	David	J.	Liu	NULL	Catalog Store
13	19	0	Mr.	John	A.	Beaver	NULL	Center Cycle Sh
14	20	0	Ms.	Jean	P.	Handley	NULL	Central Discount
15	21	0	NULL	Jinghao	NULL	Liu	NULL	Chic Department

Ln 1, Col 35 Spaces: 4 UTF-8 CRLF 847 rows MSSQL 00:00:00 gisqlserver011.database.windows.net: SampleDB

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8:22 PM 10/25/2023

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https://learn.microsoft.com/en-us/azure-data-studio/download-azure-data-studio?view=sql-server-ver15&tabs=win-install...

File Edit View Help • SQLQuery_1 - gsqlserver011.database.windows.net:SampleDB (mbadmin) - Azure Data Studio (Admin... SQLQuery_1 - gsqls...badmin)

Run Cancel Disconnect Change Database: SampleDB Estimated Plan Enable Actual Plan Parse Enable SQLCMD To Notebook

```
1 select * FROM [SalesLT].[Customer]
```

Results Messages

	CustomerID	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	CompanyName
1	1	0	Mr.	Orlando	N.	Gee	NULL	A Bike Store
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4	4	0	Ms.	Janet	M.	Gates	NULL	Modular Cycle Sh
5	5	0	Mr.	Lucy	NULL	Harrington	NULL	Metropolitan Spt
6	6	0	Ms.	Rosmarie	J.	Carroll	NULL	Aerobic Exercise
7	7	0	Mr.	Dominic	P.	Gash	NULL	Associated Bikes
8	10	0	Ms.	Kathleen	M.	Garza	NULL	Rural Cycle Empc
9	11	0	Ms.	Katherine	NULL	Harding	NULL	Sharp Bikes
10	12	0	Mr.	Johnny	A.	Caprio	Jr.	Bikes and Motorc
11	16	0	Mr.	Christopher	R.	Beck	Jr.	Bulk Discount St
12	18	0	Mr.	David	J.	Liu	NULL	Catalog Store
13	19	0	Mr.	John	A.	Beaver	NULL	Center Cycle Shc
14	20	0	Ms.	Jean	P.	Handley	NULL	Central Discount
15	21	0	NULL	Jinghao	NULL	Liu	NULL	Chic Department

Ln 1, Col 35 Spaces: 4 UTF-8 CRLF 847 rows MSSQL 00:00:00 gsqlserver011.database.windows.net: SampleDB

Submit and view feedback for

Type here to search

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