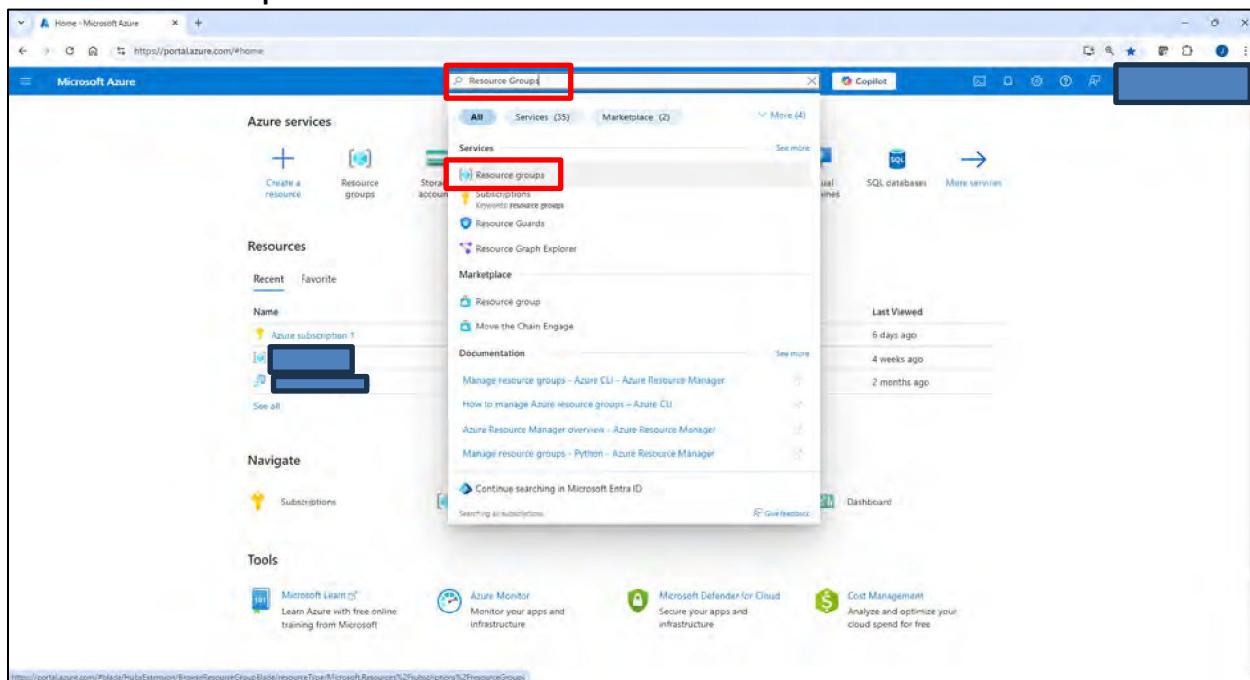


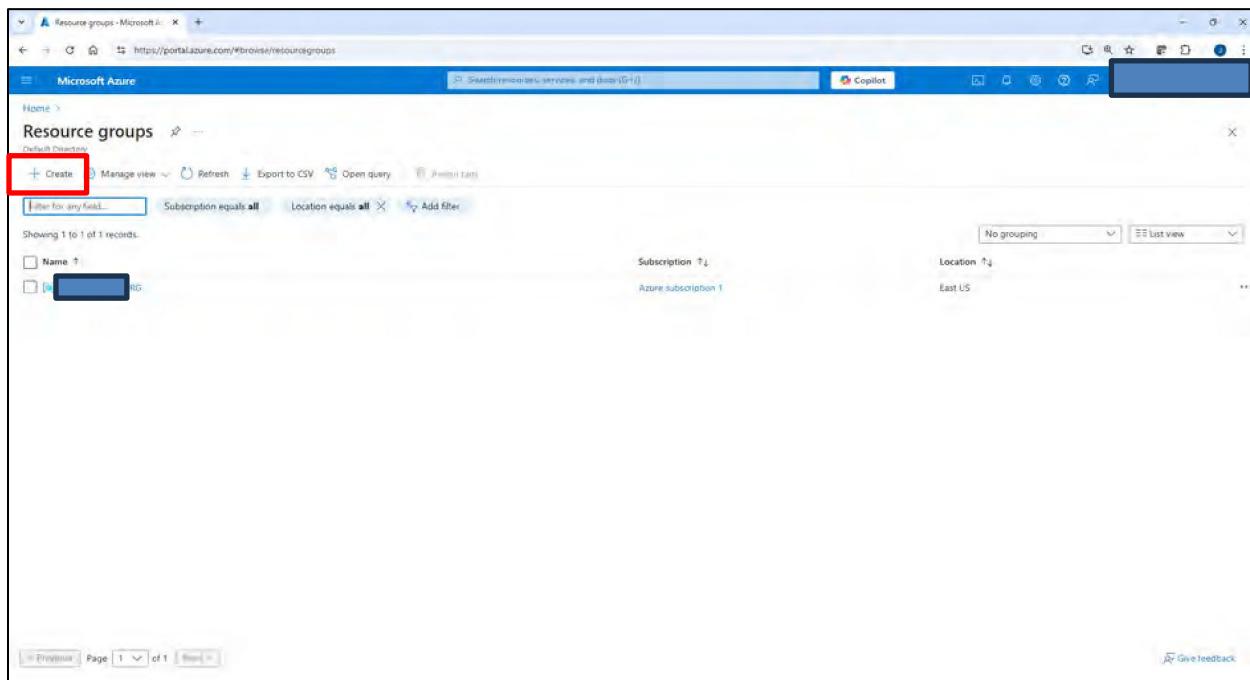
Enter **Resource Groups** in the Azure search bar

Select **Resource Groups**



The screenshot shows the Microsoft Azure portal's search interface. The search bar at the top contains the text "Resource Group". Below the search bar, the "Resource groups" link under the "Services" category is highlighted with a red box. The "Azure services" section includes links for "Create a resource", "Resource groups", "Storage account", and "Resource Graph Explorer". The "Resources" section shows a recent item named "Azure subscription 1". The "Navigate" section includes "Subscriptions" and "Dashboard". The "Tools" section features "Microsoft Learn", "Azure Monitor", "Microsoft Defender for Cloud", and "Cost Management". A sidebar on the right lists "Last Viewed" items: "SQL database" (6 days ago), "Move the Chain Engage" (4 weeks ago), and "Manage resource groups - Azure CLI - Azure Resource Manager" (2 months ago).

Select **Create**

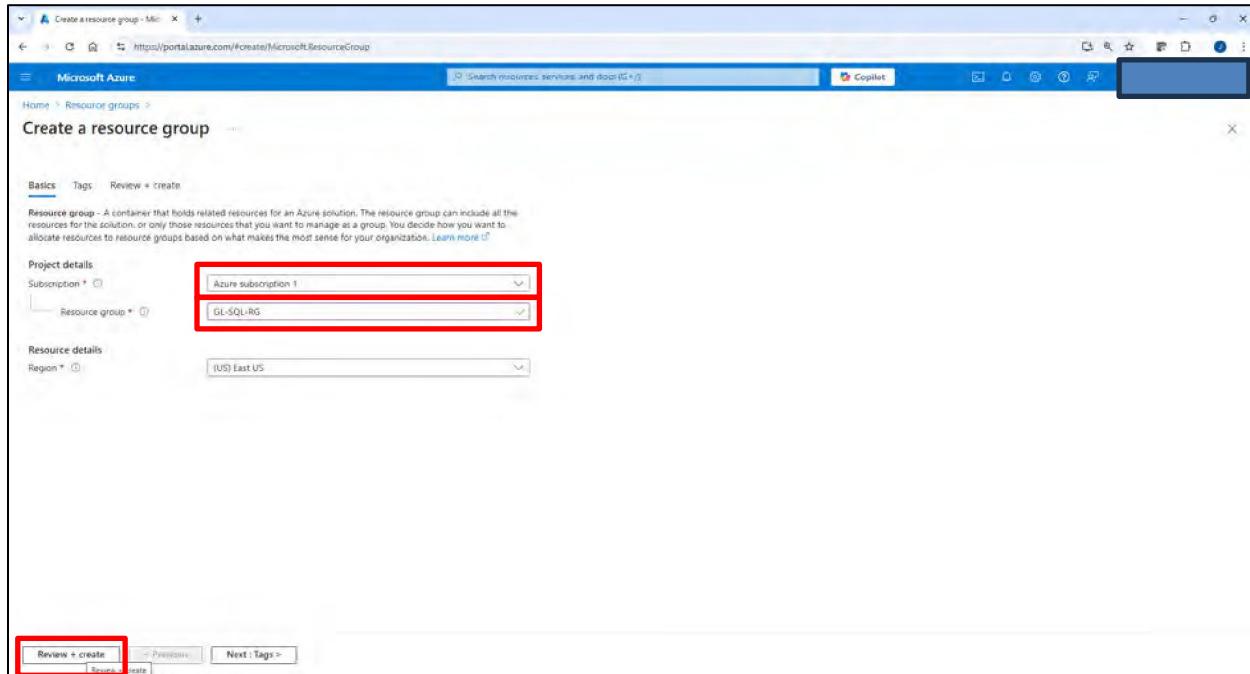


The screenshot shows the "Resource groups" list page in the Microsoft Azure portal. The "+ Create" button is highlighted with a red box. The page displays one record: "TESTING" (Subscription: Azure subscription 1, Location: East US). The "Subscription" and "Location" columns are sorted in descending order. The bottom of the page shows navigation controls for "Previous" and "Page 1 of 1".

Select **Free Trial Subscription** (**Azure Subscription 1** is my only subscription)

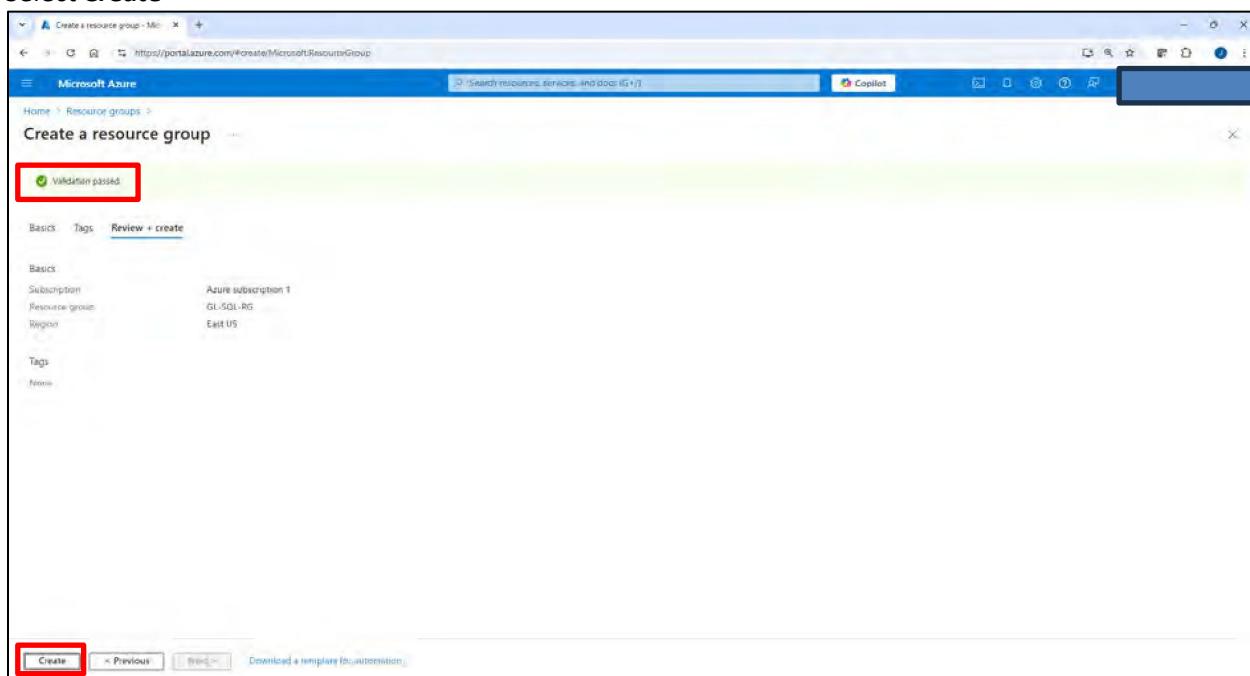
Enter **GL-SQL-RG** under Resource Group name

Select **Review + Create**



**Validation passed**

Select **Create**



## GL-SQL-RG Resource Group created

The screenshot shows the Microsoft Azure portal's 'Resource groups' page. At the top, there is a search bar and a Copilot button. Below the search bar, there are filter options: 'Subscription equals all', 'Location equals all', and 'Add filter'. The main table lists one resource group: 'GL-SQL-RG'. It is grouped by 'Subscription' (Azure subscription 1) and 'Location' (East US). The 'Name' column has a checkbox next to it, and the 'Subscription' and 'Location' columns have dropdown menus. At the bottom, there are navigation buttons for 'Previous', 'Page 1 of 1', and 'Next'.

Enter SQL Servers in Azure search bar  
Select SQL Servers

The screenshot shows the Microsoft Azure portal's 'Resource groups' page with the search bar set to 'SQL Servers'. The search results are displayed in a modal window. The 'Services' tab is selected, showing categories like 'All', 'Services (29)', and 'Marketplace (31)'. Under the 'Services' category, 'SQL servers' is highlighted with a red box. Other listed services include 'Azure Database for MySQL servers', 'Virtual machines', 'PostgreSQL servers - Azure Arc', and 'Azure SQL'. The 'Marketplace' and 'Documentation' tabs are also visible. At the bottom of the search results, there is a link to 'Create SQL Server on a Windows virtual machine in the Azure portal - SQL Server ...' and a 'Contenus searching in Microsoft Entra ID' section. Navigation buttons at the bottom of the page include 'Previous', 'Page 1 of 1', and 'Next'.

## Select Create

The screenshot shows the Microsoft Azure portal interface for managing SQL servers. The top navigation bar includes links for Home, Microsoft Azure, and Copilot. Below the navigation is a search bar and a toolbar with options like Refresh, Export to CSV, Open query, and Assign tag. A red box highlights the '+ Create' button in the top-left corner of the main content area. The main content area displays a message: 'No SQL servers to display' with a note: 'Azure SQL Server offers the familiarity of SQL Server with Azure's flexibility and scalability, optimizing performance while reducing infrastructure costs.' Below this message is a blue 'Create SQL server' button, which also has a red box around it. At the bottom right of the page is a 'Give feedback' link.

Select **Free Trial Subscription (Azure Subscription 1 is my only subscription)**

Select Resource Group **GL-SQL-RG**

Server Name: **glsqserver02** (01 was not available)

The screenshot shows the 'Create SQL Database Server' wizard in the Microsoft Azure portal. The title bar indicates the current step is 'Create SQL Database Server'. The 'Basics' tab is selected. The 'Project details' section requires selecting a Subscription (set to 'Azure subscription 1') and a Resource group ('GL-SQL-RG'). Both of these fields have red boxes around them. The 'Server details' section requires entering a Server name ('glsqserver02') and a Location ('(US) East US'), both of which also have red boxes around them. At the bottom of the screen, there are two buttons: 'Review + create' and 'Next : Networking >'. A small note at the bottom left says: 'Azure Active Directory (Azure AD) is now Microsoft Entra ID. Learn more.'

## Authentication method: Use SQL Authentication

Server admin login: **mbadmin**

Password: **Password1!**

Select **Review+Create**

Server name \* gisqlserver02 database.windows.net

Location \* (US) East US

Authentication

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication (using an existing Microsoft Entra user, group, or application as Microsoft Entra admin ([Learn more](#))), or select both SQL and Microsoft Entra authentication.

Authentication method:

- Use Microsoft Entra-only authentication
- Use both SQL and Microsoft Entra authentication
- Use SQL authentication

Server admin login \* mbadmin

Password \* \*\*\*\*\*

Confirm password \* \*\*\*\*\*

Your password must be at least 8 characters in length.  
Your password must be no more than 128 characters in length.  
Your password must contain characters from three of the following categories – English uppercase letters, English lowercase letters, numbers (0-9); and non-alphanumeric characters (!, @, #, %, etc.).  
Your password cannot contain all or part of the login name. Part of a login name is defined as three or more consecutive alphanumeric characters.

**Review + create** Next : Networking >

Select **Create**

Basics Networking Security Additional settings Tags Review + create

Product details

SQL Database Server by Microsoft Estimated cost per month No additional charges

Terms of use | Privacy policy

Terms

By clicking "Create": I (a) agree to the legal terms and privacy statements(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

Basics

Subscription Azure subscription 1  
Resource group GL-SQL-RG  
Server name gisqlserver02  
Authentication method SQL authentication  
Server admin login mbadmin  
Location East US

Networking

Allow Azure services to access server: No

Security

Identity Not enabled

**Create** < Previous Download a template for automation

## Deployment is complete

The screenshot shows the Microsoft Azure Deployment Overview page for a deployment named "Microsoft.SQLServer.createServer\_cb55823768cd4978bef5ca850081b23". A prominent green checkmark indicates "Your deployment is complete". Below this, deployment details are listed: Deployment name: Microsoft.SQLServer.createServer\_cb55823768cd4978bef5ca850081b23, Subscription: Azure subscription, Resource group: GL-SQL-RG. The start time is 12/29/2024, 1:17:06 PM, and the Correlation ID is 8a30aa1-c4f4-4e50-a1cd-7e5442c1f05. On the right side, there are links for Cost management, Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

Enter **SQL databases** in Azure search bar

Select **SQL databases**

The screenshot shows the Microsoft Azure search results for "SQL databases". The search bar at the top has "SQL databases" typed into it. Below the search bar, there are three main sections: Services, Marketplace, and Documentation. The "Services" section contains a highlighted item "SQL database" with a red box around it. Other items in this section include SQL Server stretch databases, Dedicated SQL pools (formerly SQL DW), and Azure Database for MySQL servers. The "Marketplace" section includes links for SQL Database, SQL Database Reserved vCore, EPLAN SQL Databases, and Azure SQL Database solution for sentinel. The "Documentation" section provides links to Introduction to Azure database administration - Training, Create a single database - Azure SQL Database, Create & manage servers and single databases - Azure SQL Database, Azure SQL Database documentation - Azure SQL, and Continue searching in Microsoft Entra ID. A "Give feedback" link is also present at the bottom of the search results.

## Select Create

The screenshot shows the Microsoft Azure portal interface for managing SQL databases. At the top left, there is a red box highlighting the '+ Create' button. The main content area displays a large 'SQL' icon and the message 'No SQL databases to display'. Below this, there is a brief description: 'Utilize a fully managed relational database service, perfect for accelerating application development and simplifying management tasks.' A prominent blue 'Create SQL database' button is centered in the middle of the page. At the bottom right, there is a 'Give feedback' link.

Select **Free Trial Subscription (Azure Subscription 1 is my only subscription)**

Resource Group: **GL-SQL-RG**

Database Name: **SampleDB**

Server: **glsqserver02 (East US)**

Select **Next: Networking >**

The screenshot shows the 'Create SQL Database' wizard step. In the 'Project details' section, the 'Subscription' dropdown is set to 'Azure subscription 1' and the 'Resource group' dropdown is set to 'GL-SQL-RG'. Both of these dropdowns are highlighted with a red box. To the right of the dropdowns, there is a summary table for 'General Purpose (GP\_S\_Gen5\_1)' showing cost per GB (\$0.12) and max storage selected (41.6 GB). Below the table, there is a note about serverless databases being billed in vCore seconds. In the 'Database details' section, the 'Database name' is 'SampleDB' and the 'Server' is 'glsqserver02 (East US)', both of which are also highlighted with a red box. At the bottom of the screen, there are two buttons: 'Review + create' (highlighted with a red box) and 'Next : Networking >'. There is also a small note about default settings for Development workloads.

## Select Next: Security >

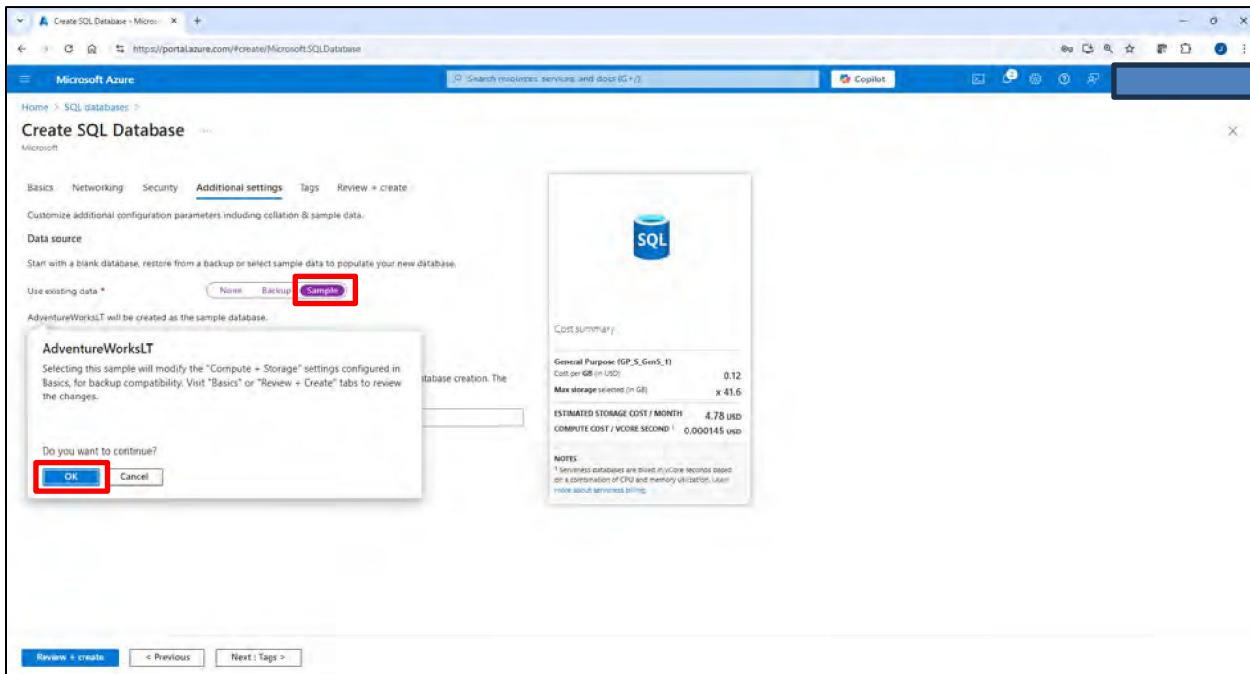
The screenshot shows the 'Create SQL Database' wizard on the Microsoft Azure portal. The current step is 'Security'. The 'Networking' tab is selected. In the 'Firewall rules' section, there is a note that settings are read-only. Below it, there are two buttons: 'Allow Azure services and resources to access this server' (Yes) and 'Add current client IP address' (No). The 'Private endpoints' section shows a table with one row. The 'Connection policy' section also has a note about being read-only. At the bottom, there are 'Review + create' and 'Next : Security >' buttons, with 'Next : Security >' highlighted by a red box.

## Select Next: Additional Settings >

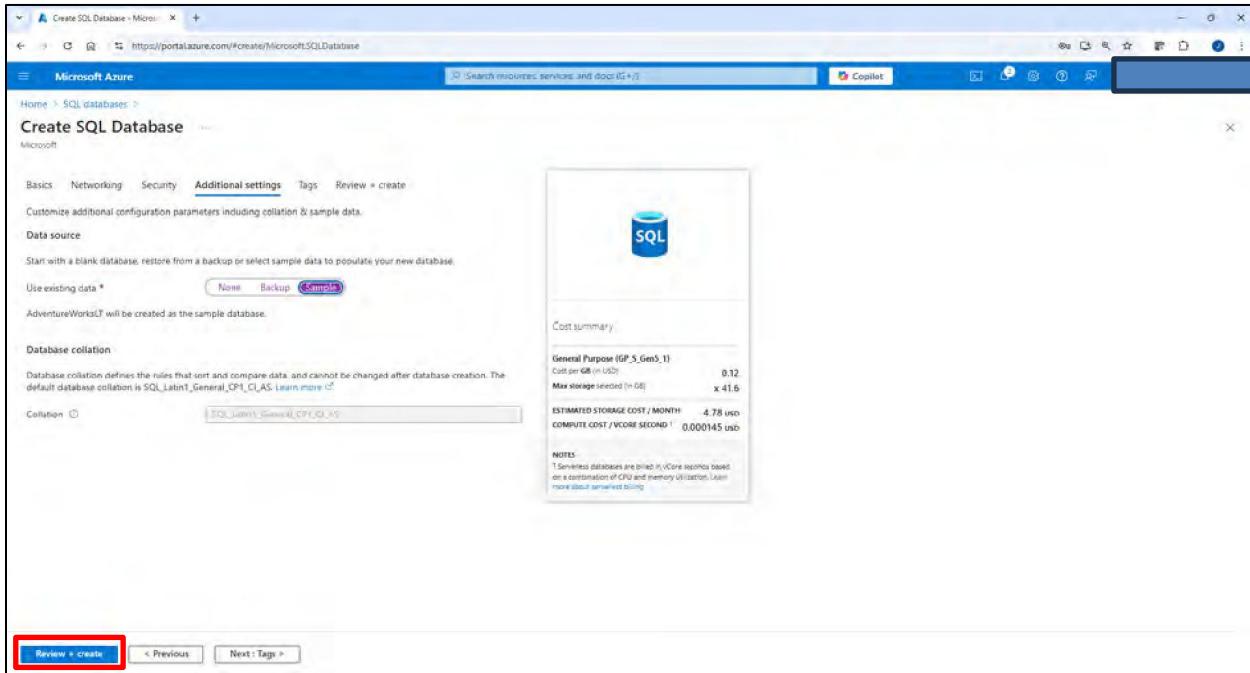
The screenshot shows the 'Create SQL Database' wizard on the Microsoft Azure portal. The current step is 'Additional settings'. The 'Security' tab is selected. In the 'Microsoft Defender for SQL' section, there is a note about protecting data using Microsoft Defender for SQL. Below it, there are two radio buttons: 'Start free trial' (unchecked) and 'Not now' (checked). The 'Ledger' section has a note about ledger cryptographically verifying data integrity. It shows a status of 'Not configured' with a 'Configure ledger' link. The 'Server identity' section has a note about using system-assigned or user-assigned managed identities. The 'Transparent data encryption key management' section has a note about encrypting databases, backups, and logs. At the bottom, there are 'Review + create' and 'Next : Additional settings >' buttons, with 'Next : Additional settings >' highlighted by a red box.

## Select Sample

Select OK



## Select Review + Create



## Select Create

The screenshot shows the 'Create SQL Database' wizard in the Microsoft Azure portal. The 'Review + create' tab is selected. On the right, there's a 'Cost summary' panel for a 'General Purpose (GP\_Gen5\_1)' configuration, showing an estimated cost of 4.78 USD/month. Below it, a 'NOTES' section explains that service databases are billed in vCore second based on a combination of CPU and memory utilization. At the bottom left of the main form, a red box highlights the 'Create' button.

## Enter SQL Servers in Azure search bar

### Select SQL Servers

The screenshot shows the Microsoft Azure search results page. The search bar at the top contains the text 'SQL server', which is highlighted with a red box. The results list includes 'SQL servers' (highlighted with a red box), 'Azure Database for MySQL servers', 'Virtual machines', 'PostgreSQL servers - Azure Arc', 'Azure SQL', 'SQL Server 2022 on Windows Server 2022', 'SQL server (logical server)', and 'SQL Server 2019 on Windows Server 2019'. The URL at the bottom of the page is <https://portal.azure.com/#blade/HubsExtension/DeploymentDetailsBlade/-/overview/id/%2Fsubscriptions%2Ffd5e1cd2-2998-42d9-91db-4960cbf5066%2FresourceGroups%2FGL-SQL-RG%2Fproviders%2FMicrosoft.Resources%2FDeployment%2BnewDatabaseExistingServer>.

## Select glsqlserver02

The screenshot shows the Microsoft Azure portal interface for managing SQL servers. The URL is https://portal.azure.com/#browse/Microsoft.Sql%2Fservers. The page title is "SQL servers". A search bar at the top right says "Search resources, services, and documentation". Below the search bar are buttons for "Create", "Manage view", "Refresh", "Export to CSV", "Open query", and "New tag". A filter bar includes "Filter for any field...", "Subscription equals all", "Resource group equals all", "Location equals all", and "Add filter". The main table lists one record: "glsqlserver02". Columns include Name, Status, Resource group, Location, and Subscription. The "Name" column has a sorting arrow. The "Status" column shows "Available". The "Resource group" column shows "GL-SQL-RG". The "Location" column shows "East US". The "Subscription" column shows "Azure subscription 1". At the bottom left, there are navigation buttons for "Previous", "Page 1 of 1", and "Next". At the bottom right, there is a "Give feedback" link.

## Select Show network settings

The screenshot shows the Microsoft Azure portal interface for managing a specific SQL server named "glsqlserver02". The URL is https://portal.azure.com/#@joelphillip@hotmail.onmicrosoft.com/resource/subscriptions/0d3e1cd2-8996-4289-91db-4960dddf50f6/resourceGroups/GL-SQL-RG/providers/Microsoft.Sql/servers/glsqlserver02/overview. The page title is "glsqlserver02 - Microsoft Azure". On the left, there is a sidebar with options like "Overview", "Activity log", "Access control (IAM)", "Tags", "Quick start", "Diagnose and solve problems", "Settings", "Data management", "Security", "Intelligent performance", "Monitoring", "Automation", and "Help". The main content area shows the "Essentials" section with details: Resource group (moved) : GL-SQL-RG, Status : Available, Location : East US, Subscription (moved) : Azure subscription 1, Subscription ID : 8d3e1cd2-8996-4289-91db-4960dddf50f6, Tags (edit) : Add tags, Notifications (0), and Features (6). Under "Features", there are six cards: "Microsoft Entra admin" (NOT CONFIGURED), "Auditing" (NOT CONFIGURED), "Microsoft Defender for SQL" (NOT CONFIGURED), "Failover groups" (NOT CONFIGURED), "Automatic tuning" (CONFIGURED), and "Transparent data encryption" (SERVICE-MANAGED KEY). At the bottom, there is a table for "Available resources" with columns for Name, Type, Status, and Pricing tier. The table shows 1 database: "glsqlserver02". The bottom navigation bar includes "Page 1 of 1".

## Under Public Access, select Selected networks

The screenshot shows the Microsoft Azure portal interface for managing a SQL server named 'gsqlserver02'. The left sidebar shows various navigation options like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Quick start', 'Diagnose and solve problems', 'Settings', 'Data management', 'Security', and 'Networking'. Under 'Networking', there are sub-options like 'Microsoft Defender for Cloud', 'Transparent data encryption', 'Identity', 'Auditing', 'Intelligent performance', 'Monitoring', 'Automation', and 'Help'. The main content area is titled 'gsqlserver02 | Networking'. It has tabs for 'Public access', 'Private access', and 'Connectivity'. The 'Public access' tab is active. Under 'Public network access', there are two radio button options: 'Disable' and 'Selected networks'. The 'Selected networks' option is selected and highlighted with a red box. Below it, a note says: 'Only approved private endpoint connections will be accepted by this resource. Any existing firewall rules or virtual network endpoints will be retained, but disabled.' There is also a link to 'Learn more'.

## In Firewall rules, select Add your client IPv4 address

The screenshot shows the Microsoft Azure portal interface for managing a SQL server named 'gsqlserver02'. The left sidebar shows various navigation options like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Quick start', 'Diagnose and solve problems', 'Settings', 'Data management', 'Security', and 'Networking'. Under 'Networking', there are sub-options like 'Microsoft Defender for Cloud', 'Transparent data encryption', 'Identity', 'Auditing', 'Intelligent performance', 'Monitoring', 'Automation', and 'Help'. The main content area is titled 'gsqlserver02 | Networking'. It has tabs for 'Public access', 'Private access', and 'Connectivity'. The 'Public access' tab is active. Under 'Public network access', there are two radio button options: 'Disable' and 'Selected networks'. The 'Selected networks' option is selected. Below it, a note says: 'Connections from the IP addresses configured in the Firewall rules section below will have access to this database. By default, no public IP addresses are allowed.' There is also a link to 'Learn more' and a note: 'Please save public network access value before adding new virtual networks.' The 'Firewall rules' section is shown, featuring a table with columns: Rule, Virtual network, Subnet, Address range, Endpoint status, Resource group, Subscription, and State. At the bottom of the 'Firewall rules' section, there is a button labeled '+ Add your client' which is highlighted with a red box. Below this button, there is a table with columns: Rule name, Start IPv4 address, and End IPv4 address. There is also a checkbox for 'Allow Azure services and resources to access this server'.

## Select Save

The screenshot shows the Azure portal interface for managing a SQL server. The left sidebar lists various management options like Overview, Activity log, Access control (IAM), Tags, Quick start, Diagnose and solve problems, Settings, Data management, and Security. Under the Networking section, there's a table for Firewall rules. A new rule is being created with the 'Add a firewall rule' button. The 'Save' button at the bottom left is highlighted with a red box.

Enter **SQL databases** in Azure search bar

Select **SQL databases**

The screenshot shows the Azure portal search results for 'SQL databases'. The search bar at the top has 'SQL databases' typed into it and is highlighted with a red box. Below the search bar, the results list shows 'SQL databases' selected and highlighted with a red box. Other options listed include 'SQL Server stretch databases', 'Dedicated SQL pools (formerly SQL DW)', 'Azure Database for MySQL servers', 'Marketplace', 'SQL Database', 'SQL Database Reserved vCores', 'EPLAN SQL Databases', and 'Azure SQL Database solution for sentinel'. The 'Save' button at the bottom left is visible.

## Select SampleDB (glsqserver02/SampleDB)

The screenshot shows the Microsoft Azure portal interface for managing SQL databases. The URL is https://portal.azure.com/#blade/Microsoft\_Azure\_SQL\_Databases/SQL\_databases/Overview. The main title is "SQL databases". A search bar at the top right contains "Search resources, services, and documentation". Below the search bar, there are filter options: "Subscription equals all", "Resource group equals all", and "Location equals all". The results table shows one record: "SampleDB (glsqserver02/SampleDB)". The table columns include "Name", "Server", "Replica type", "Pricing tier", "Location", and "Subscription". The "Name" column has an upward arrow indicating sorting. The "Subscription" column shows "Azure subscription 1". At the bottom left, there are navigation links for "Previous", "Page 1", "of 1", and "Next". At the bottom right, there is a "Give feedback" link.

## Select Query editor (preview)

The screenshot shows the Microsoft Azure portal interface for a specific SQL database named "SampleDB (glsqserver02/SampleDB)". The URL is https://portal.azure.com/#blade/Microsoft\_Azure\_SQL\_Databases/SQL\_database/Overview. The main title is "SampleDB (glsqserver02/SampleDB)". On the left, there is a sidebar with navigation items: "Overview", "Activity log", "Tags", "Diagnose and solve problems" (which is expanded), "Query editor (preview)" (highlighted with a red box), "Mirror database in Fabric", "Settings", "Data management", "Integrations", "Power Platform", "Security", "Intelligent performance", "Monitoring", "Automation", and "Help". The main content area displays "Essentials" information: Resource group (GL-SQL-RG), Status (Online), Location (East US), Subscription ID (redacted), and Tags (Add tags). It also shows "Getting started" links for "Configure access", "Connect to application", and "Start developing". At the bottom, there are "See connection strings" and "Open" buttons for "Open Azure Data Studio" and "Open In Visual Studio".

## Login with Password: Password1!

The screenshot shows the Microsoft Azure portal interface for a SQL database named 'SampleDB'. On the left, a sidebar lists various database management options like Overview, Activity log, Tags, and Query editor (preview). The main area is titled 'SampleDB (glsqserver02/SampleDB) | Query editor (preview)'. It displays a 'Welcome to SQL Database Query Editor' message. Below this, there are two authentication methods: 'SQL server authentication' (selected) and 'Microsoft Entra authentication'. Under 'SQL server authentication', the 'Login' field is set to 'mbadmin' and the 'Password' field is set to 'Password1!' (the password is highlighted with a red box). There are 'OK' and 'Cancel' buttons for each method.

Copy / Paste: **select \* from [SalesLT].[Customer]**

Select Run

This screenshot shows the same Azure portal interface as the previous one, but now the query has been entered and executed. The 'Query 1' pane contains the SQL command: '1 select \* from [SalesLT].[Customer]'. The 'Run' button above the query pane is highlighted with a red box. The results pane below is currently empty, showing the status 'Ready'.

## Results shown

The screenshot shows the Microsoft Azure portal interface for a SQL database named 'SampleDB'. On the left, there's a navigation pane with options like 'Create', 'Reservations', and 'Query editor (preview)'. The main area is titled 'SampleDB (glsqserver02/SampleDB) | Query editor (preview)' and contains a query editor with the following code:

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

Below the query editor is a results grid with the following data:

CustomerID	NameStyle	Title	FirstName
1	False	Mr.	Orlando
2	False	Mr.	Keith
3	False	Mrs.	Donna
4	False	Mrs.	Janet
5	False	Mr.	Lucy
6	False	Mrs.	Rosmane
7	True	Miss	Susan

A red box highlights the results grid. At the bottom of the results grid, it says 'Query succeeded (1s)'.

## In separate window, open another Azure management console

The screenshot shows the Microsoft Azure management console. The top navigation bar has a 'Home' link highlighted with a red box. The main area is titled 'Azure services' and shows various service icons. Below that is a 'Resources' section with a 'Recent' tab selected, displaying a list of resources:

Name	Type	Last Viewed
SampleDB (glsqserver02/SampleDB)	SQL database	4 minutes ago
glsqserver02	SQL server	15 minutes ago
GL-SQL-RG	Resource group	21 minutes ago
Azure subscription: 1	Subscription	6 days ago
	Resource group	4 weeks ago
		2 months ago

Below the resources are sections for 'Navigate' (Subscriptions, Resource groups, All resources, Dashboard) and 'Tools' (Microsoft Learn, Azure Monitor, Microsoft Defender for Cloud, Cost Management).

Enter **Virtual Machines** in Azure search bar  
Select **Virtual Machines**

The screenshot shows the Microsoft Azure portal interface. At the top, there is a search bar with the text "virtual machines" highlighted by a red box. Below the search bar, the "Services" section is expanded, showing "Virtual machines" also highlighted by a red box. The main content area displays a list of resources under "Resources". The first item in the list is "SampleDB (gsqlserver02/SampleDB)", followed by "gsqlserver02", "GL-QL-RG", and "Azure subscription 1". To the right of the list, there are columns for "Type", "Name", and "Last Viewed". At the bottom of the list, there is a "Shift all" button. The "Navigate" section includes links for "Subscriptions", "Resource groups", "All resources", and "Dashboard". The "Tools" section includes links for "Microsoft Learn", "Azure Monitor", "Microsoft Defender for Cloud", and "Cost Management".

Select **Create**  
Select **Azure Virtual Machine**

The screenshot shows the "Virtual machines" blade in the Microsoft Azure portal. The "Create" button is highlighted by a red box. The blade includes sections for "Azure virtual machine" and "Azure virtual machine with preset configuration". Below these sections, there is a link "More VMs and related solutions" and a note about discovering and deploying full workloads and Azure products for business needs. The main content area displays a message "No virtual machines to display" with instructions to create a virtual machine using a marketplace image or a customized image. There is a "Create" button with a dropdown menu. At the bottom, there are links for "Learn more about Windows virtual machines" and "Learn more about Linux virtual machines". The bottom right corner features a "Give feedback" button.

Subscription: Azure subscription1

Resource Group: GL-SQL-RG

Virtual Machine Name: GL-SQL-VM

Availability options: Default

Security type: Default

Image: Windows 10 Pro

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'Subscription' and 'Resource group' sections are highlighted with a red box. The 'Subscription' dropdown shows 'Azure subscription 1'. The 'Resource group' dropdown shows 'GL-SQL-RG'. To the right, there is an 'Estimated monthly costs' summary table.

Estimated monthly costs	
Costs indicated here are estimates only. Pricing may vary depending on your Microsoft agreement, date of purchase, subscription type, usage costs, licensing and currency exchange rates. Total costs may include other resource costs, licensing and subscription implications. This feature may have limited or restricted functionality, but is made available on a preview basis for evaluation and feedback.	
Give feedback about your estimate experience	
Basics	\$70.08
Virtual machine	\$70.08
Image	\$0.00
Windows 10 Pro, version 22H2 - x64 Gen2	Windows BYOL applied
Size	\$70.08
Standard_D2s_v2	
Disks	\$19.71
Networking	\$0.00
Management	\$0.00
Monitoring	\$0.00
Estimated monthly cost	\$89.79

Size: Default

Username: gladmin

Password: Password1Password2

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'Size' and 'Administrator account' sections are highlighted with a red box. The 'Image' dropdown shows 'Windows 10 Pro, version 22H2 - x64 Gen2'. The 'VM architecture' dropdown shows 'x64'. The 'Administrator account' section includes fields for 'Username' (gladmin), 'Password', and 'Confirm password'. To the right, there is an 'Estimated monthly costs' summary table.

Estimated monthly costs	
Costs indicated here are estimates only. Pricing may vary depending on your Microsoft agreement, date of purchase, subscription type, usage costs, licensing and currency exchange rates. Total costs may include other resource costs, licensing and subscription implications. This feature may have limited or restricted functionality, but is made available on a preview basis for evaluation and feedback.	
Give feedback about your estimate experience	
Basics	\$70.08
Virtual machine	\$70.08
Image	\$0.00
Windows 10 Pro, version 22H2	Windows BYOL applied
Size	\$70.08
Standard_D2s_v2	
Disks	\$19.71
Networking	\$0.00
Management	\$0.00
Monitoring	\$0.00
Estimated monthly cost	\$89.79

Select checkbox: I confirm I have an eligible Windows 10/11 license with multi-tenant hosting rights.  
 Select Review+Create

**Create a virtual machine**

I confirm I have an eligible Windows 10/11 license with multi-tenant hosting rights.

[Review multi-tenant hosting rights for Windows 10/11 compliance](#)

**Estimated monthly costs**

Category	Cost
Virtual machine	\$70.08
Image	\$0.00
Size	\$70.08
Disks	\$19.71
Networking	\$0.00
Management	\$0.00
Monitoring	\$0.00
Estimated monthly cost	\$89.79

Validation Passed

Select Create

**Create a virtual machine**

**Validation passed**

**Basics**

Subscription: Azure subscription 1  
 Resource group: GL-SQL-RG  
 Virtual machine name: GL-SQL-VM

**Create**

**Estimated monthly costs**

Category	Cost
Virtual machine	\$70.08
Image	\$0.00
Size	\$70.08
Disks	\$19.71
Networking	\$3.65
Management	\$0.00
Monitoring	\$0.00
Advanced	\$0.00
Estimated monthly cost	\$93.44

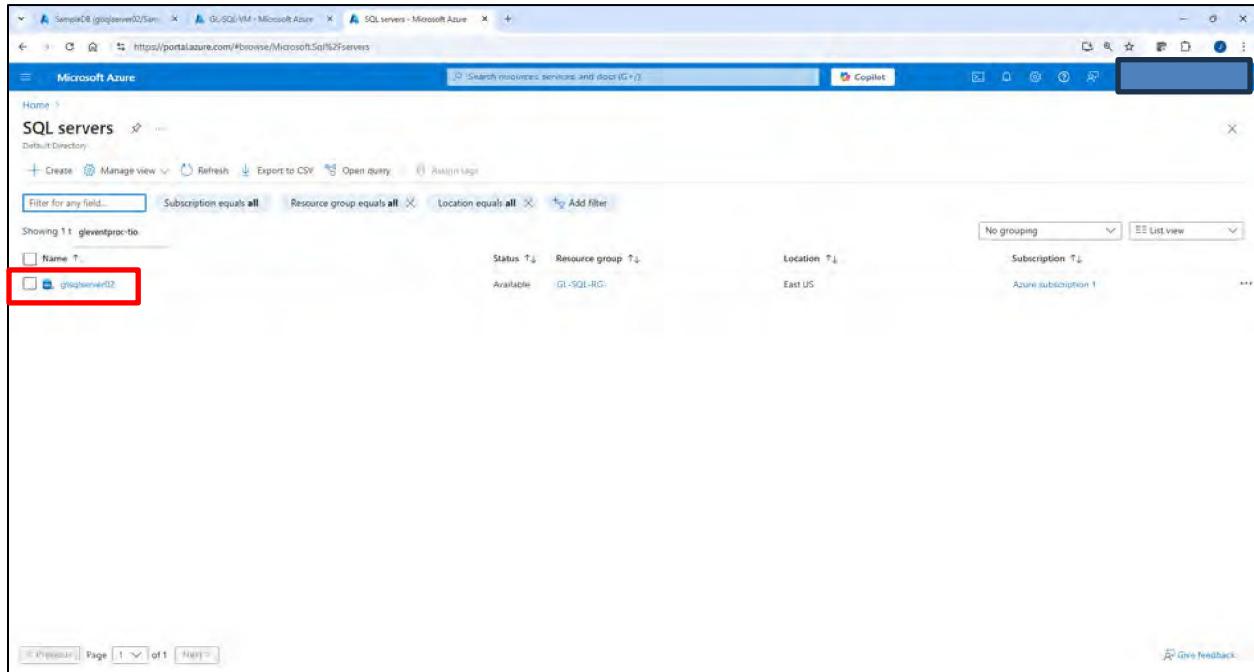
## Select Go to resource

The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#quickstart=True&view=HubExtension/DeploymentDetailBlade/-/overview/id%2Fsubscriptions%2F0d1e1cd2-8996-4289-91db-4960cbf5066%2FresourceGroups%2FGL-SQL-RG%2Fproviders%2FMicrosoft.Compute/virtualMachines%2FGL-SQL-VM>. The page title is "CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20241229135655 | Overview". The main content area displays a green checkmark indicating "Your deployment is complete". Below it, under "Deployment details", there are sections for "Next steps" which include "Setup auto-shutdown" (Recommended), "Monitor VM health, performance and network dependencies" (Recommended), and "Run a script inside the virtual machine" (Recommended). A prominent blue button labeled "Go to resource" is highlighted with a red box. To the right of the main content, there are several promotional cards: "Cost Management", "Microsoft Defender for Cloud", "Free Microsoft tutorials", and "Work with an expert".

## Copy Public IP Address: 40.76.251.110

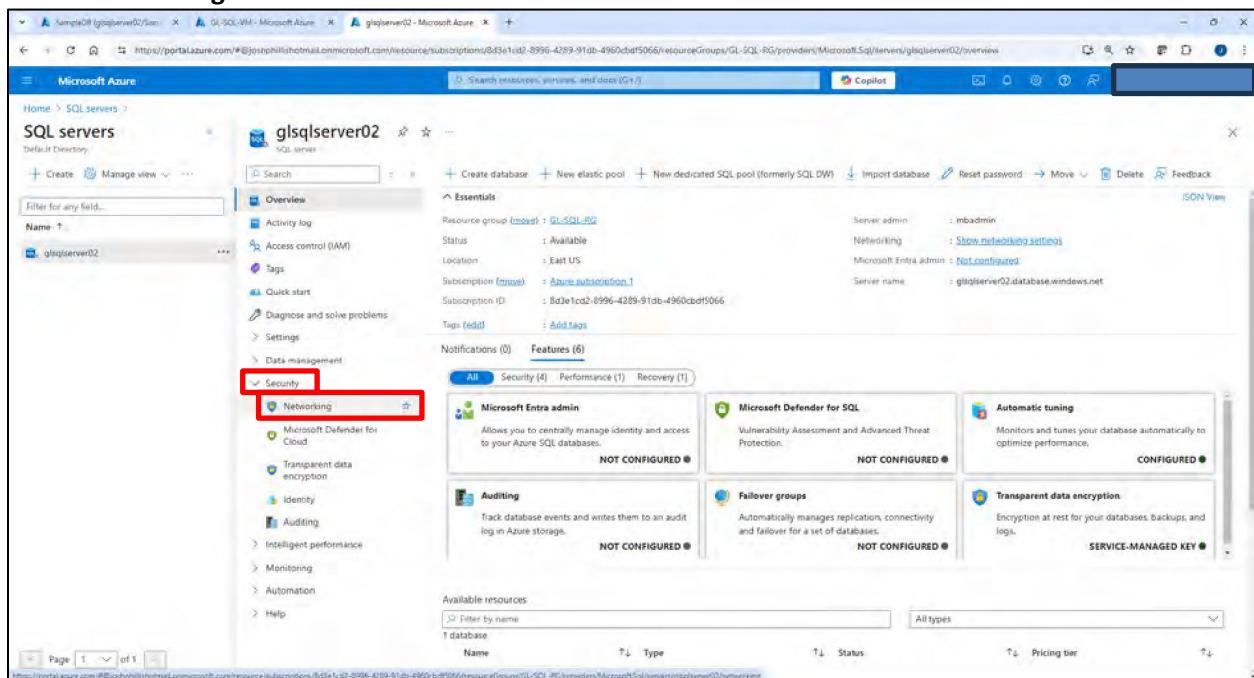
The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#quickstart=True&view=HubExtension/DeploymentDetailBlade/-/overview/id%2Fsubscriptions%2F0d1e1cd2-8996-4289-91db-4960cbf5066%2FresourceGroups%2FGL-SQL-RG%2Fproviders%2FMicrosoft.Compute/virtualMachines%2FGL-SQL-VM>. The page title is "Home > CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20241229135655 | Overview > GL-SQL-VM". The main content area shows the "Essentials" section for the "GL-SQL-VM" virtual machine. It lists the Resource group (GL-SQL-RG), Status (Running), Location (East US (Zone 1)), Subscription (Azure subscription 1), and Availability zone (1). The "Properties" tab is selected, showing detailed information about the virtual machine, including its Computer name (GL-SQL-VM), Operating system (Windows), VM generation (V2), VM architecture (x64), Agent status (Not Ready), Agent version (Unknown), and Hibernation (Disabled). On the right side, the "Networking" section is expanded, showing the Public IP address (40.76.251.110), Private IP address (10.0.0.4), Virtual network/subnet (GL-SQL-VM/vnet/default), and DNS name (Configure). A tooltip "Help me copy this VM in any region" is visible above the networking section.

Enter **SQL Servers** in Azure search bar  
Select **glsqserver02**



The screenshot shows the Microsoft Azure portal interface. The search bar at the top has the text "SQL Servers". Below the search bar, the page title is "Microsoft Azure" and the sub-page title is "SQL servers". There are several filter options: "Subscription equals all", "Resource group equals all", "Location equals all", and "Add filter". The main table lists one item: "glsqserver02". The "Name" column shows a checkbox next to "glsqserver02", which is highlighted with a red box. The "Status" column shows "Available", "Resource group" shows "GL-SQL-RG", "Location" shows "East US", and "Subscription" shows "Azure subscription 1". At the bottom of the table, there are buttons for "Previous", "Page 1 of 1", and "Next".

Select **Security**  
Select **Networking**



The screenshot shows the Microsoft Azure portal interface for the "glsqserver02" SQL server. The left sidebar has a tree view with "Overview" selected, followed by "Activity log", "Tags", "Quick start", "Diagnose and solve problems", "Settings", "Data management", "Security" (which is highlighted with a red box), "Networking" (also visible in the sidebar), and "Help". The main pane shows the "Essentials" section with basic information: Resource group (GL-SQL-RG), Status (Available), Location (East US), Subscription (Azure subscription 1), and Subscription ID (8d3e1cd2-8996-4289-91db-4960cbd15066). It also shows "Notifications (0)" and "Features (6)". The "Features" tab is active and displays six items: Microsoft Defender for SQL (NOT CONFIGURED), Auditing (NOT CONFIGURED), Failover groups (NOT CONFIGURED), Microsoft Defender for SQL (NOT CONFIGURED), Automatic tuning (CONFIGURED), and Transparent data encryption (SERVICE-MANAGED KEY). At the bottom, there is a table titled "Available resources" showing 1 database named "glsqserver02.database.windows.net".

Scroll down, select Add a firewall rule

The screenshot shows the Microsoft Azure portal interface for managing a SQL server named 'glsqserver02'. The left sidebar has a 'Networking' section under 'Security'. In the main area, there's a 'Firewall rules' section with a button labeled '+ Add a firewall rule' highlighted by a red box. Below it are fields for 'Rule name', 'Start IPv4 address', and 'End IPv4 address', all of which are also highlighted by a red box.

Rule Name: AzureVMAccess

Enter Start IP: 40.76.251.110 (copied from created VM)

Enter End IP: 40.76.251.110 (copied from created VM)

Select OK

This screenshot shows the 'Add a firewall rule' dialog box overlaid on the Azure portal. The 'Rule name' field contains 'ClientIPAddress\_2024-12-29\_13-44-34'. The 'Start IP' and 'End IP' fields both show '40.76.251.110'. The 'OK' button at the bottom right of the dialog is highlighted by a red box.

## Select Save

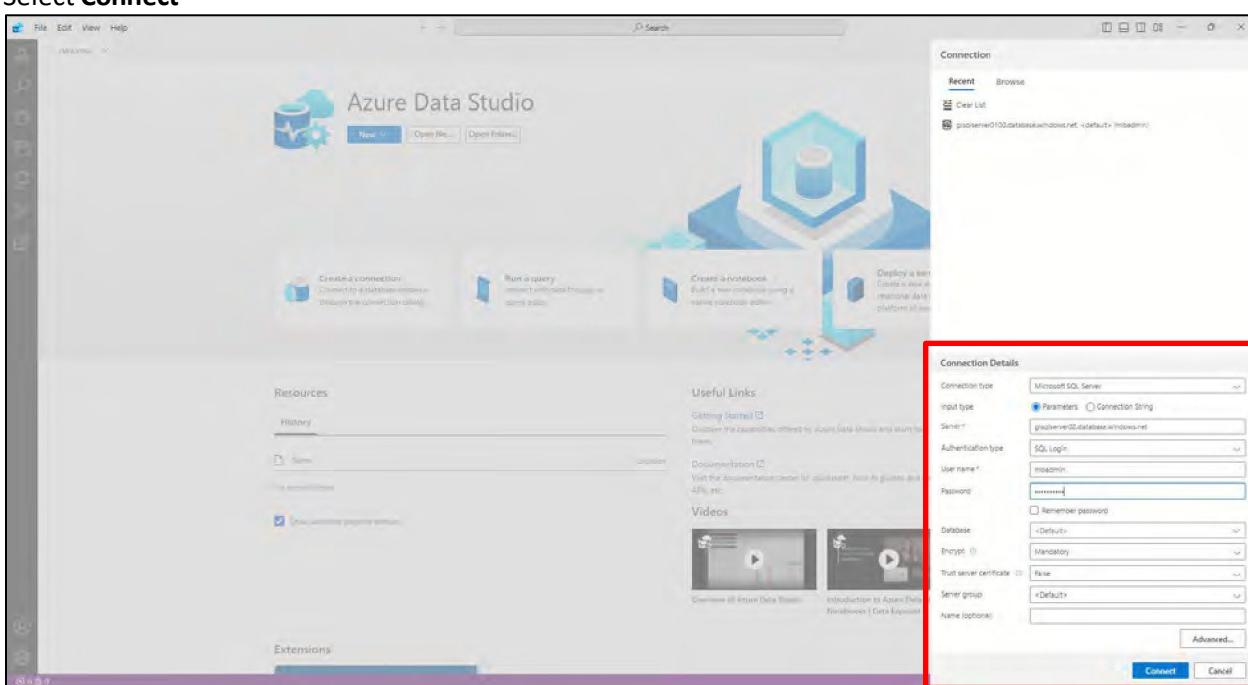
The screenshot shows the Microsoft Azure portal interface. The URL in the address bar is <https://portal.azure.com/#@josephphil@hotmail.com/resource/subscriptions/0d3e1cd2-0996-4289-91db-4960cbdf5066/resourceGroups/GL-SQL-PG/providers/Microsoft.Sql/servers/glsqserver02/networking>. The page title is "glsqserver02 | Networking". On the left, there's a sidebar with "SQL servers" selected, showing options like Overview, Activity log, Access control (IAM), Tags, Quick-start, Diagnose and solve problems, Settings, Data management, Security, Networking, Transparent data encryption, Identity, Auditing, Intelligent performance, Monitoring, Automation, and Help. Under Networking, there are sections for Firewall rules, Virtual networks, and Exceptions. In the Firewall rules section, a new rule named "AzureVMAccess" has been created with the Start IPv4 address set to 40.76.251.110 and the End IPv4 address set to 40.76.251.110. At the bottom, there are "Save" and "Discard" buttons, with "Save" highlighted by a red box.

## Open Azure Data Studio

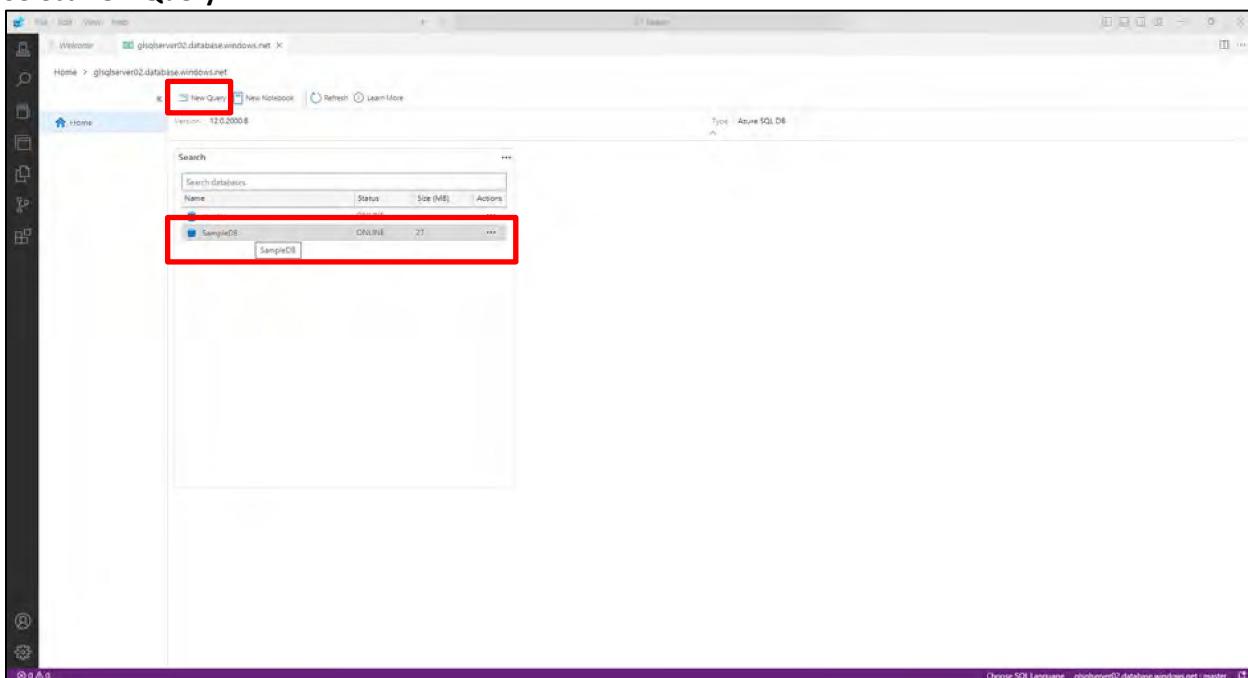
### Select New Connection

The screenshot shows the Azure Data Studio application window. The title bar says "Welcome". The main area features a central toolbar with buttons for "New", "Open file...", "Open folder...", "New connection", "Create a connection", "Run a query", "Create a notebook", and "Deploy a server". The "New connection" button is highlighted with a red box. Below the toolbar, there are sections for "Resources" (History, Name, Location, Show welcome page on startup), "Useful Links" (Getting Started, Documentation, Videos), and "Extensions". On the right side, there are video thumbnails for "Overview of Azure Data Studio", "Introduction to Azure Data Studio", and "Notebooks | Data Exposed". At the bottom, there are "Show All" and "Choose SQL Language" buttons.

Connection Type: **Microsoft SQL Server**  
Server: **glsqserver02.database.windows.net**  
Authentication Type: **SQL Login**  
Username: **mbadmin**  
Password: **Password1!**  
Select **Connect**

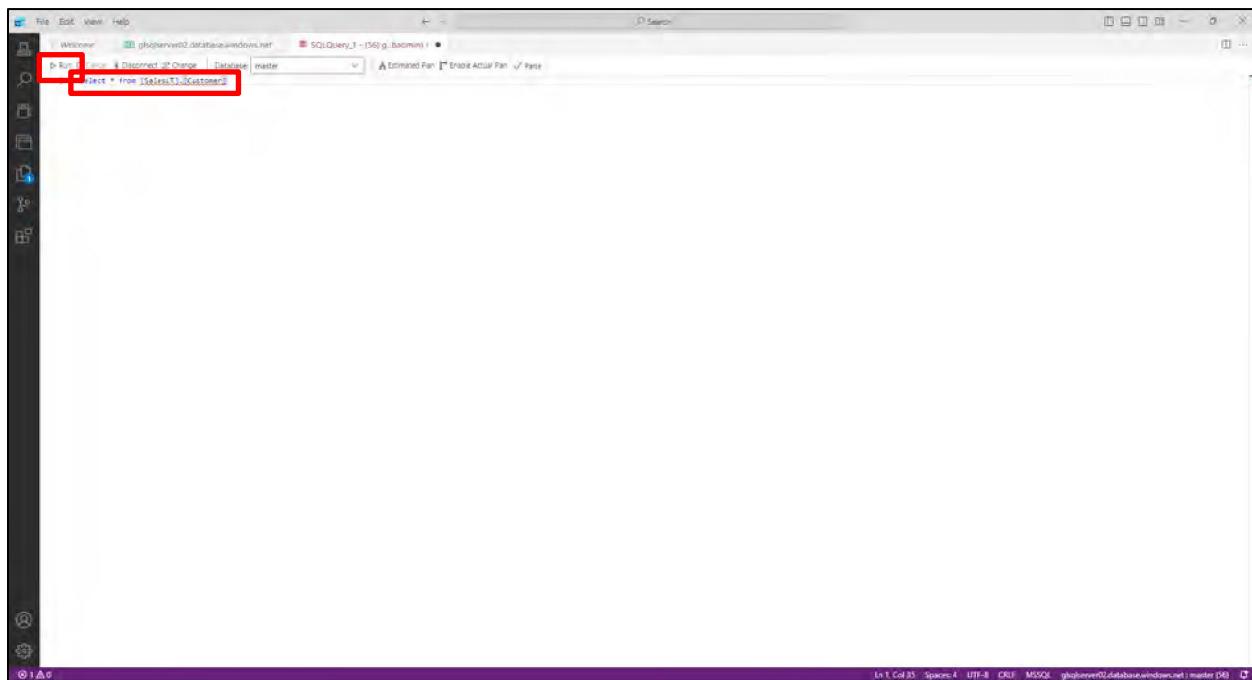


Select **SampleDB**  
Select **New Query**



Copy / Paste: select \* from [SalesLT].[Customer]

Select Run



Results shown below

CustomerID	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	CompanyName	SalesPerson	EmailAddress	Phone	Pass
1	1	Mr.	Orlando	N.	See	NULL	A Bike Store	adventure-works\pamelab	pamelab@adventure-works.com	248-555-0173	
2	2	Mr.	Keith	NULL	Harris	NULL	Progressive Sports	adventure-works\keithb	keithb@adventure-works.com	170-555-0127	
3	3	Ms.	Donna	F.	Carrera	NULL	Advanced Bike Components	adventure-works\donnafl	donnafl@adventure-works.com	279-555-0138	
4	4	Mr.	James	H.	Gets	NULL	Modular Cycle Systems	adventure-works\jameshl	jameshl@adventure-works.com	724-555-0173	
5	5	Mr.	Lucy	NULL	Herrington	NULL	Metropolitan Sports Supply	adventure-works\lucyh	lucyh@adventure-works.com	828-555-0186	
6	6	Ms.	Rosmarie	J.	Carroll	NULL	Aerobic Exercise Company	adventure-works\rosmjd	rosmjd@adventure-works.com	244-555-0122	
7	7	Mr.	Dominic	P.	Gash	NULL	Associated Bikes	adventure-works\dominid	dominid@adventure-works.com	193-555-0173	
8	10	Ms.	Kathleen	H.	Garza	NULL	Rural Cycle Emporium	adventure-works\kathel	kathel@adventure-works.com	150-555-0127	
9	11	Ms.	Katherine	NULL	Marling	NULL	Sharp Bikes	adventure-works\katherinell	katherinell@adventure-works.com	924-555-0159	
10	12	Mr.	Johnny	A.	Ceprio	Jr.	Bikes and Motorcycles	adventure-works\johnnyrvtt	johnnyrvtt@adventure-works.com	312-555-0191	
11	13	Mr.	Christopher	R.	Beck	Jr.	Bulk Discount Store	adventure-works\christo	christopherlibadventure-works.com	1 (111) 569-555-0132	
12	18	Mr.	David	Z.	Ilu	NULL	Catalog Store	adventure-works\davidzil	davidzil@adventure-works.com	440-555-0132	
13	19	Mr.	John	A.	Bewer	NULL	Center Cycle Shop	adventure-works\johnal	johnal@adventure-works.com	521-555-0135	
14	20	Mr.	Jean	P.	Handley	NULL	Central Discount Store	adventure-works\jeanpb	jeanpb@adventure-works.com	501-555-0133	
15	21	Mr.	Wendy	NULL	Iw	NULL	City Gearment Stores	adventure-works\wendil	wendil@adventure-works.com	923-555-0126	
16	22	Mr.	Linda	E.	Burnett	NULL	Travel Systems	adventure-works\lindael	lindael@adventure-works.com	121-555-0121	
17	23	Mr.	Kermit	NULL	Manif	NULL	Bike World	adventure-works\kerim	kerim@adventure-works.com	216-555-0122	
18	24	Mr.	Kevin	NULL	Ilu	NULL	Eastside Department Store	adventure-works\kevinil	kevinil@adventure-works.com	926-555-0164	
19	25	Mr.	Donald	L.	Blanton	NULL	Coalition Bike Company	adventure-works\donalbl	donalbl@adventure-works.com	357-555-0161	
20	28	Ms.	Jackie	E.	Blackwell	NULL	Comuter Bicycle Store	adventure-works\jessieb	jessieb@adventure-works.com	972-555-0163	
21	29	Mr.	Bryan	NULL	Hamilton	NULL	Cross-Country Riding Supp.	adventure-works\brynh	brynh@adventure-works.com	344-555-0144	
22	30	Mr.	Todd	N.	Lopez	NULL	Cycle Merchants	adventure-works\torrivtt	torrivtt@adventure-works.com	783-555-0119	
23	31	Ms.	Monica	S.	Reyes	NULL	Customer Information System	adventure-works\monicas	monicas@adventure-works.com	1 (111) 569-555-0131	

Enter Resource Groups in Azure search bar  
Select Resource Groups

The screenshot shows the Microsoft Azure portal interface. In the top navigation bar, there is a search bar with the placeholder text "Search resources, services and docs (G + J)". Below the search bar, a red box highlights the "Resource groups" link under the "Services" category. The main content area displays details for a database named "SampleDB (glsqserver02)". On the right side, there is a sidebar with various links and a "with your database" section.

Select GL-SQL-RG

The screenshot shows the Microsoft Azure portal interface with the search bar set to "Resource groups". The results list shows two entries: "GL-SQL-RG" and another entry whose name is partially visible. The "GL-SQL-RG" entry is highlighted with a red box. The results table includes columns for "Subscription" and "Location".

Subscription	Location
Azure subscription 1	East US
Azure subscription 1	East US

## Select Delete Resource Group

The screenshot shows the Microsoft Azure portal's Resource groups page. The URL is https://portal.azure.com/#@joshphillip@hotmail.onmicrosoft.com/resource/subscriptions/0d3e1cd2-8996-4289-91db-4960cbd5066/resourceGroups/GL-SQL-RG/overview. The 'Delete resource group' button is highlighted with a red box in the top right corner of the header.

Copy / Paste GL-SQL-RG into Enter resource group name to confirm deletion \*

Select checkbox Apply force delete for selected Virtual Machines and Virtual Machine Scale Sets

Select Delete

The screenshot shows the 'Delete a resource group' dialog box. It displays a warning message: 'The following resource group and all its dependent resources will be permanently deleted.' Below this, it lists 'Resource group to be deleted' (GL-SQL-RG) and 'Dependent resources to be deleted (9)'. A checkbox labeled 'Apply force delete for selected Virtual machines and Virtual machine scale sets' is checked. Another input field shows 'GL-SQL-RG' as the confirmation name. The 'Delete' button at the bottom is highlighted with a red box.

## Select Delete under Delete Confirmation

The screenshot shows the Microsoft Azure portal interface. On the left, there is a sidebar titled 'Resource groups' with a list of items including 'Create', 'Manage view', 'Subscription equals all', 'Location equals all', 'Add filter', 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Resource visualizer', 'Events', 'Settings', 'Cost Management', 'Monitoring', 'Automation', and 'Help'. A specific resource group named 'GL-SQL-RG' is selected.

The main content area displays the 'Delete a resource group' dialog. It includes a summary section stating: 'The following resource group and all its dependent resources will be permanently deleted.' Below this is a 'Resource group to be deleted' section showing 'GL-SQL-RG'. Underneath, a 'Dependent resources to be deleted (9)' section lists various resources: 'GL-SQL-VM', 'GL-SQL-VM-ip', 'GL-SQL-VM', 'GL-SQL-VM', 'GL-SQL-VM', 'GL-SQL-VM', 'GL-SQL-VM', 'GL-SQL-VM', and 'SampleDB (glsqlserver02/SampleDB)'. A 'Delete confirmation' section contains the message: 'Deleting this resource group and its dependent resources is a permanent action and cannot be undone.' At the bottom right of this section is a red-bordered 'Delete' button.

## No GL-SQL-RG under Resource Groups

The screenshot shows the Microsoft Azure portal interface. The left sidebar is identical to the previous screenshot, showing the 'Resource groups' list.

The main content area displays a list of 'Resource groups'. A red box highlights the search bar and the list of results. The search bar contains 'Filter for any field...'. The results table has columns for 'Name', 'Subscription', and 'Location'. There is one entry: 'Name' is 'GL-SQL-RG', 'Subscription' is 'Azure subscription 1', and 'Location' is 'East US'. The entire list area is enclosed in a red box.

## No GL-SQL-VM under Virtual Machines

A screenshot of the Microsoft Azure Virtual Machines dashboard. The page title is "Virtual machines - Microsoft Azure". The main content area displays a message: "No virtual machines to display". Below this message, there is a brief description: "Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image." A blue "Create" button is visible. At the bottom of the page, there are two links: "Learn more about Windows virtual machines" and "Learn more about Linux virtual machines". The entire central content area is highlighted with a red rectangular box.

## No SQL Databases

A screenshot of the Microsoft Azure SQL databases dashboard. The page title is "SQL databases - Microsoft Azure". The main content area displays a message: "No SQL databases to display". Below this message, there is a brief description: "Utilize a fully managed relational database service, perfect for accelerating application development and simplifying management tasks." A blue "Create SQL database" button is visible. At the bottom of the page, there is a "Learn more" link. The entire central content area is highlighted with a red rectangular box.

## No SQL Servers

The screenshot shows the Microsoft Azure portal interface for managing SQL servers. The title bar reads "SQL servers - Microsoft Azure". The main content area is titled "SQL servers" and displays a message: "No SQL servers to display". Below this message, there is a brief description: "Azure SQL Server offers the familiarity of SQL Server with Azure's flexibility and scalability, optimizing performance while reducing infrastructure costs." Two buttons are present: "Create SQL server" and "Learn more". The entire "No SQL servers to display" message area is highlighted with a thick red border.