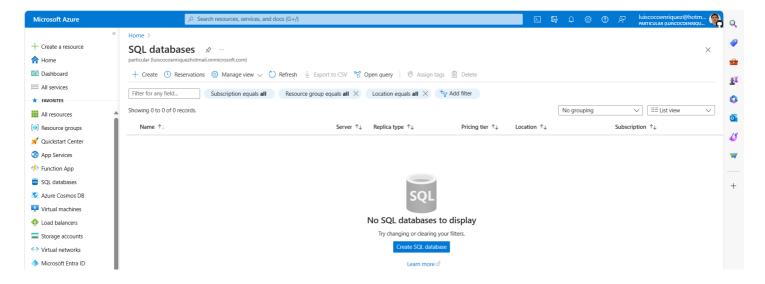# How to create an Azure SQL database and connect from SSMS, Azure Data Studio, VSCode, Visual Studio and IntelliJ Community Edition
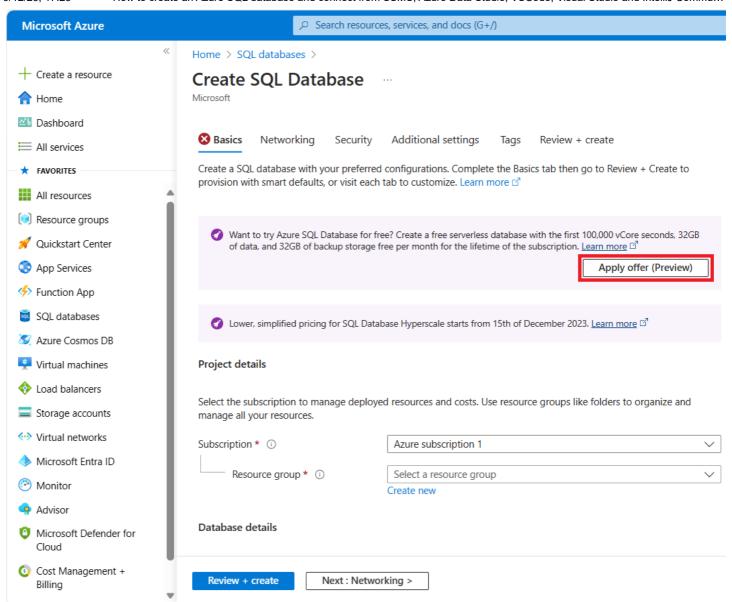
1. Create a new Azure SQL database

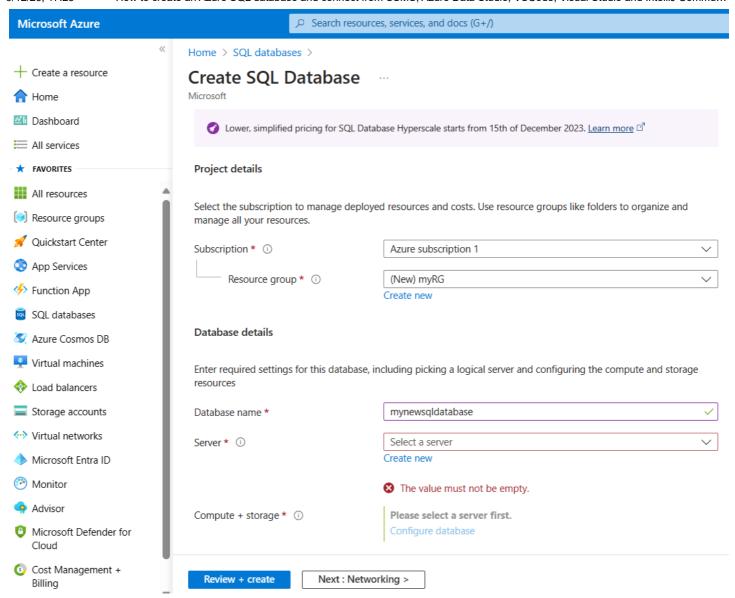We login in Azure portal and we navigate to Azure SQL database service.
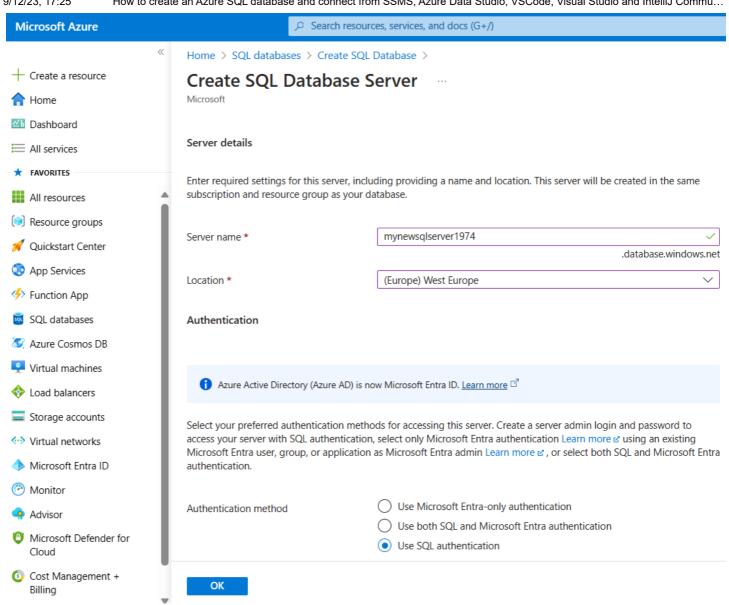

We create a new Azure SQL database

Microsoft Azure

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Home > SQL databases >

Create SQL Database   ⋯
Microsoft

❌ **Basics**   Networking   Security   Additional settings   Tags   Review + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. Learn more ⧉

🚀 Want to try Azure SQL Database for free? Create a free serverless database with the first 100,000 vCore seconds, 32GB of data, and 32GB of backup storage free per month for the lifetime of the subscription. Learn more ⧉

                                                                                      Apply offer (Preview)

🚀 Lower, simplified pricing for SQL Database Hyperscale starts from 15th of December 2023. Learn more ⧉

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ | Azure subscription 1   ⌄ |

        Resource group * ⓘ | Select a resource group   ⌄ |
                                       Create new

Database details

―――

Review + create   Next : Networking >

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🚀 Lower, simplified pricing for SQL Database Hyperscale starts from 15th of December 2023. Learn more ⧉

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ | Azure subscription 1   ⌄ |

     Resource group * ⓘ | (New) myRG   ⌄ |
     Create new

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name * | mynewsqldatabase   ✓ |

Server * ⓘ | Select a server   ⌄ |
     Create new

     ❌ The value must not be empty.

Compute + storage * ⓘ   **Please select a server first.**
     Configure database

[Review + create]   [Next : Networking >]

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We create a new SQL Server

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Home > SQL databases > Create SQL Database >

Create SQL Database Server ⋯

Microsoft

Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name *   mynewsqlserver1974   ✓

                                                         .database.windows.net

Location *   (Europe) West Europe   ⌄

Authentication

ℹ 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 Learn more ⬀ 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

OK

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Home > SQL databases > Create SQL Database >

Create SQL Database Server   ⋯

Microsoft

Server name   mynewsqlserver1974

.database.windows.net

Location *   (Europe) West Europe   ∨

Authentication

ℹ 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 Learn more ⧉ 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 *   Enter server admin login

Password *   [   ]

Confirm password *   [   ]

OK

We set the **server admin login** "admin1974" and the **password** "XXXXXXXXXXXXX"

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◔ Monitor
🎯 Advisor
🛡 Microsoft Defender for Cloud
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Home > SQL databases > Create SQL Database >

Create SQL Database Server   ···

Microsoft

Server name   mynewsqlserver1974

.database.windows.net

Location *   (Europe) West Europe   ⌄

Authentication

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Authentication method   ◯ Use Microsoft Entra-only authentication
                               ◯ Use both SQL and Microsoft Entra authentication
                               ⦿ Use SQL authentication

Server admin login *   admin1974   ✓

Password *   ●●●●●●●●●●●●●   ✓

Confirm password *   ●●●●●●●●●●●●●   ✓

OK

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Home > SQL databases >

Create SQL Database ···
Microsoft

Compute + storage * ⓘ

General Purpose - Serverless
Standard-series (Gen5), 2 vCores, 32 GB storage, zone redundant disabled
Configure database

Behavior when free offer limit reached

Behavior when free offer limit reached ⓘ   🔘 Auto-pause the database until next month
When free offer limit is reached, the database will not be accessible until the beginning of next calendar month when free amount is renewed. There will be no additional charges.

◯ Continue using database for additional charges
Database continues to be accessible after free offer limit is reached. Additional usage beyond the free offer amount for that month will be charged at general purpose serverless tier rates. The free amount will be renewed at the beginning of the next calendar month.

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ⓘ   🔘 Locally-redundant backup storage
◯ Zone-redundant backup storage
◯ Geo-redundant backup storage

[Review + create]   [Next : Networking >]

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Home > SQL databases >

Create SQL Database ⋯
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Private endpoint	None
Minimum TLS version	1.2
Connection Policy	Default

Security

Identity	Not enabled
Transparent data encryption (Server level)	Service-managed key selected
Database level customer-managed key	Not configured
Database level user assigned managed identity	Not configured
Advanced data security	Not now
Always encrypted with secure enclaves	Not configured
Sql Ledger(Database)	Disabled
Digest Storage	Disabled

Additional settings

Use existing data	Blank
Collation	SQL_Latin1_General_CP1_CI_AS
Maintenance window	System default (5pm to 8am)

Tags
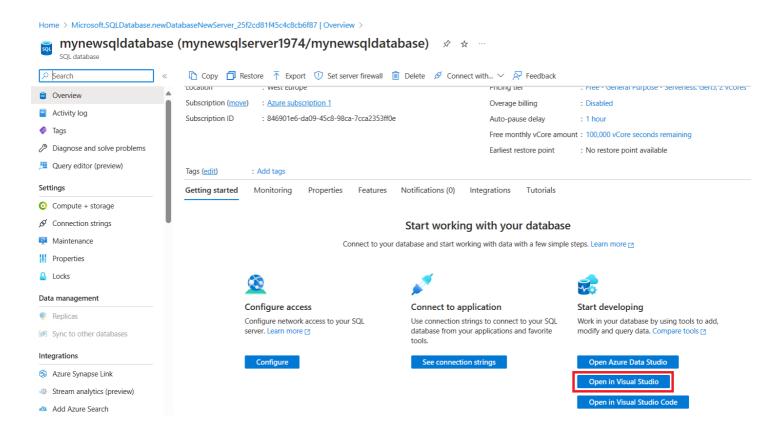
| **Create** | **< Previous** | Download a template for automation |
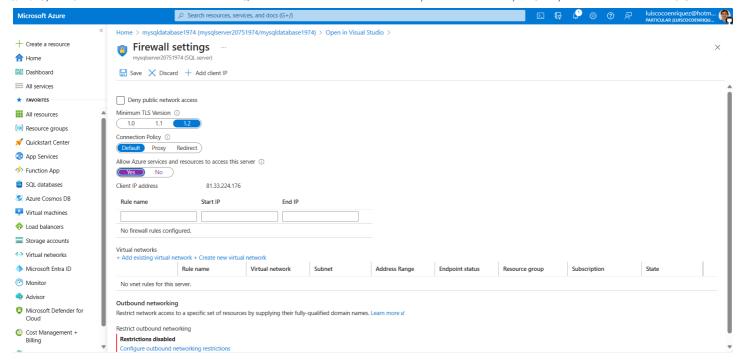
We have to enable the
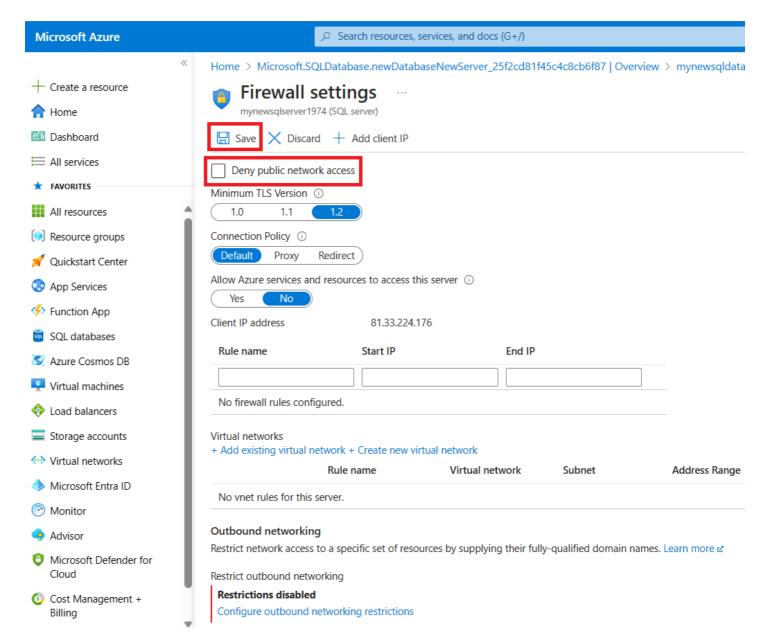
We configure the firewall
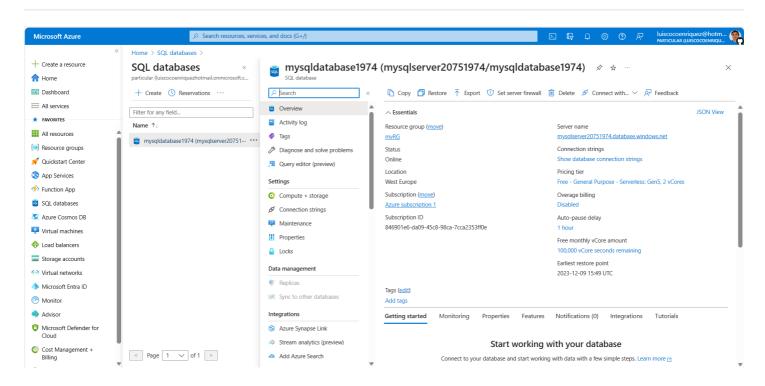
We unselect the "**Deny public network access**" option and also "Allow Azure services and resources to access this server" we set to "Yes"
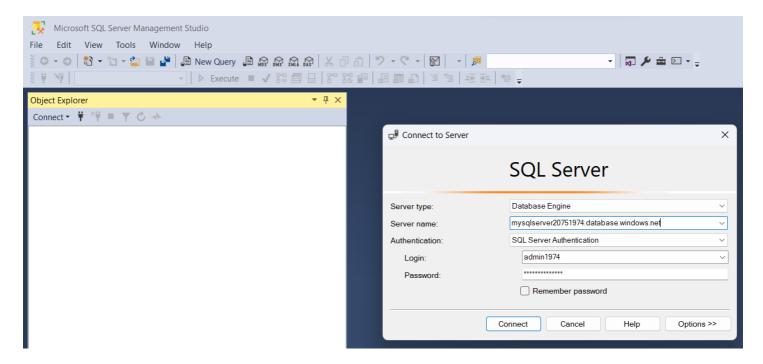
2. Connect to the Azure SQL database from SSMS (SQL Server Management Studio)

We download and set up **SSMS**: https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms
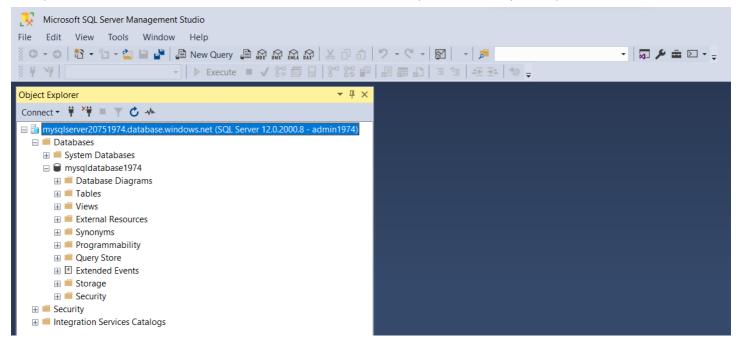
username:admin1974
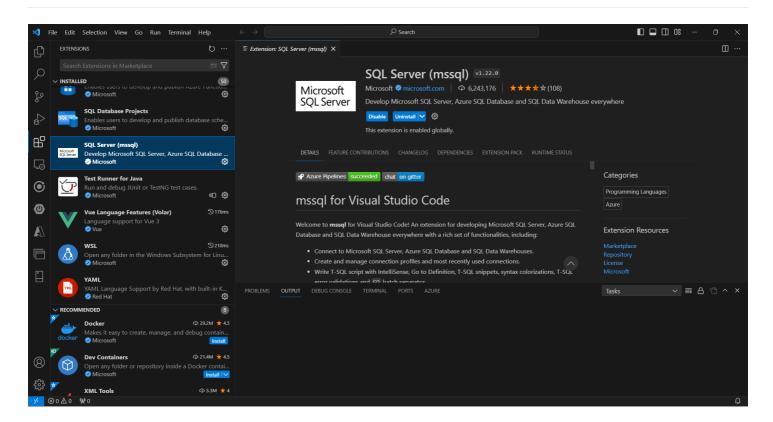
password:XXXXXXXX
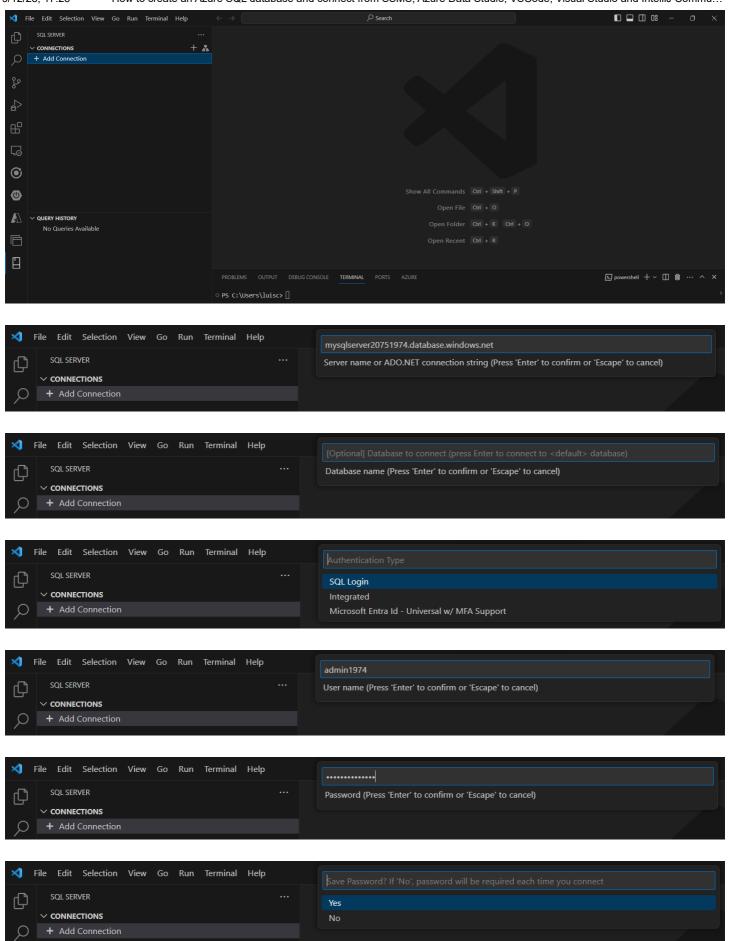
3. Connect to Azure SQL database from VSCode
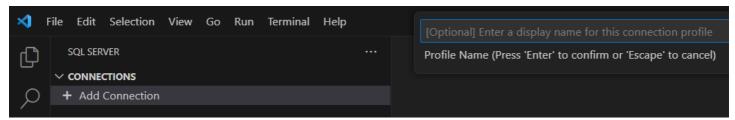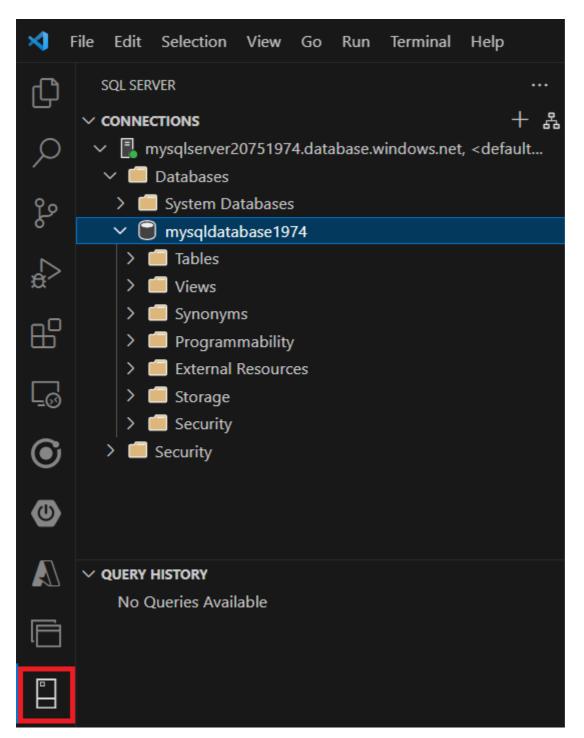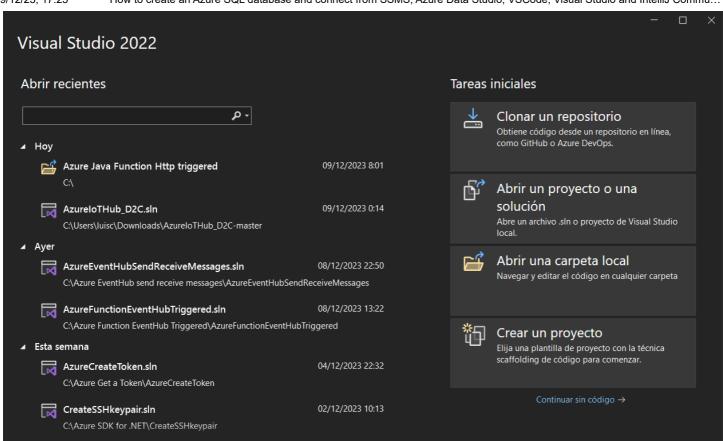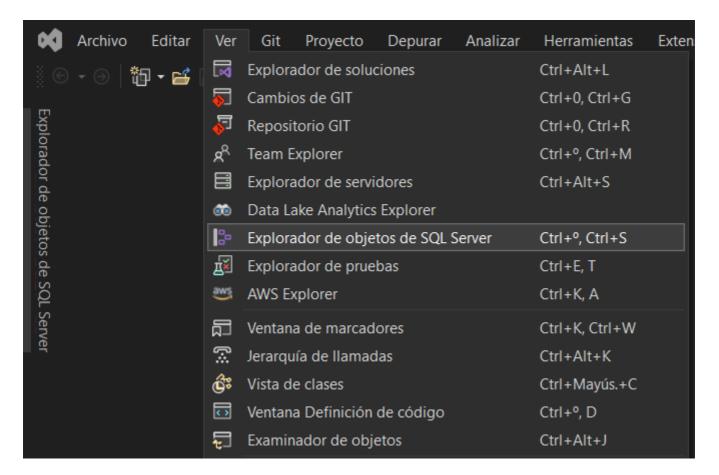
4. Connect to Azure SQL database from Visual Studio 2022 Community Edition
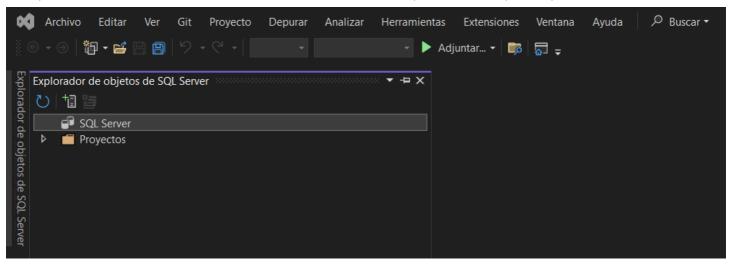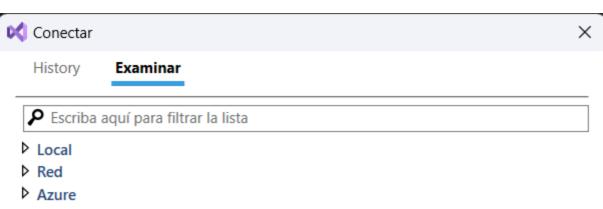
We create a new SQL Server connection pressing in the following button:

Conectar   ✕

History   **Examinar**

🔍 Escriba aquí para filtrar la lista

▷ **Local**
▷ **Red**
▷ **Azure**
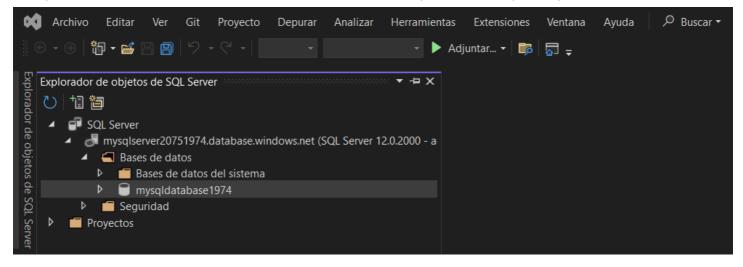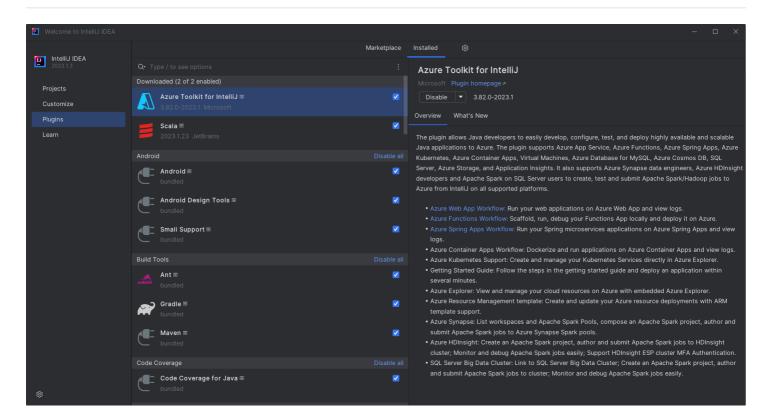
Nombre del servidor:	lserver20751974.database.windows.net
Autenticación:	Autenticación de SQL Server ⌄
Nombre del usuario:	admin1974
Contraseña:	●●●●●●●●●●●●●●
	☐ Recordar contraseña
Nombre de la base de datos:	<predeterminado> ⌄
Cifrar:	Mandatory (True) ⌄
Confiar en el certificado del servidor:	False ⌄

Avanzadas…

Conectar   Cancelar
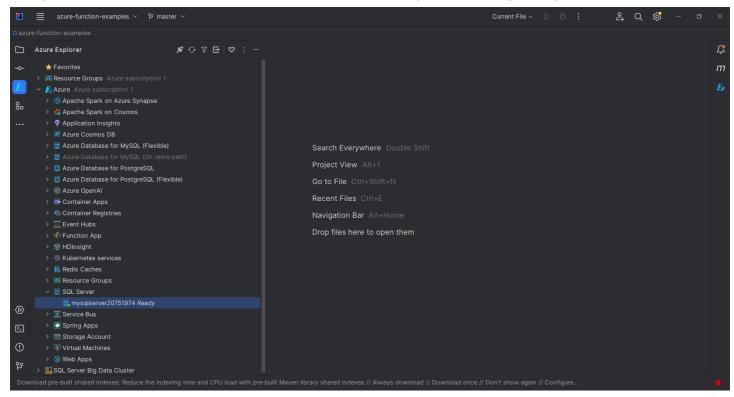
5. Connect to Azure SQL database from IntelliJ
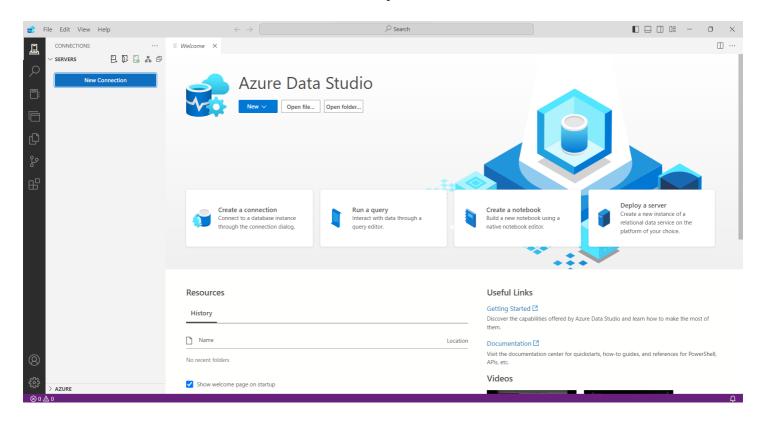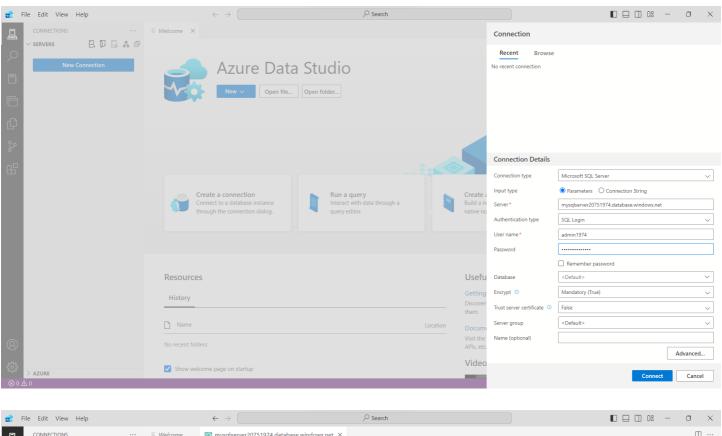
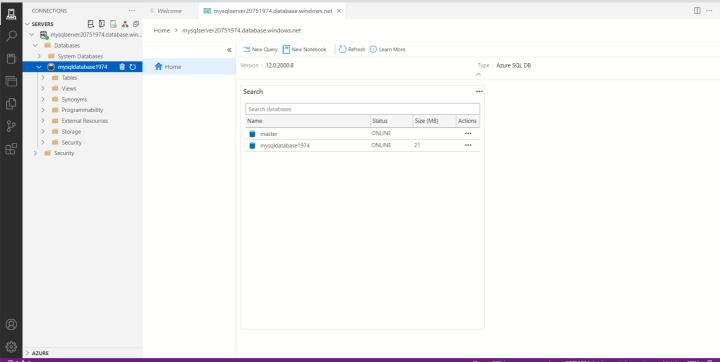# 6. Connect to Azure SQL database from Azure Data Studio

Download and Install Azure Data Studio: https://learn.microsoft.com/en-us/azure-data-studio/download-azure-data-studio

Run Azure Data Studio and connect to the Azure SQL database