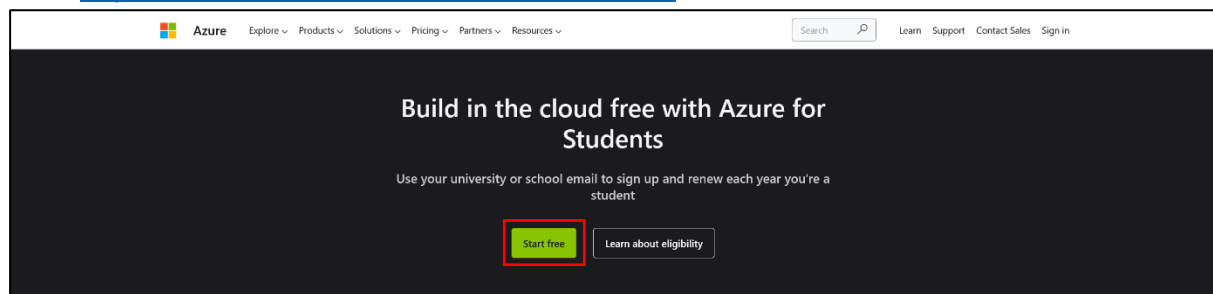# Guide to how to create the SQL SERVER and add DATABASE in Microsoft Azure!

Made by students of Inholland University of Applied Sciences:
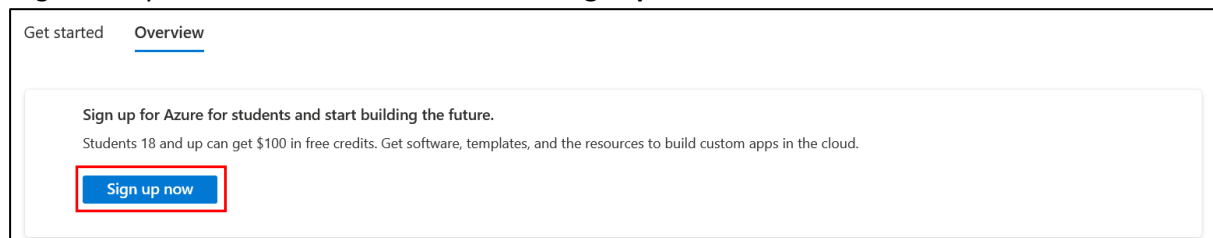*Rafal Songin (697248)*
Miguel Angel Orrego (703167)

1. Go to https://azure.microsoft.com/en-us/free/students/ and click on "**Start free**".

2. Log in with your student account and click on "**Sign up now**"

3. Put your phone number and click on "**Text me**", insert the **verification code** and click on "**Verify code**" to confirm your phone number. **(A DUTCH PHONE NUMBER IS REQUIRED!)**

4. Fill in all your details and click on "**Sign up**".

Your profile ⌃

Country/Region ⓘ

Netherlands

Choose the location that matches your billing address. **You cannot change this selection later.** If your country is not listed, the offer is not available in your region. Learn More

First name

This field is required

Middle name (Optional)

Last name

This field is required

Email address for important notifications ⓘ

Phone ⓘ

Example: 6 123 45678

Company VatID ⓘ

Optional

Address line 1

Address line 2 (Optional)

City

State

--Select--

Postal Code

By proceeding you acknowledge that if you use your organization's email, your organization may have rights to access and manage your data and account. Learn more

I understand that Microsoft may contact me about my free account.

☐ I agree to the **customer agreement**.

☐ I would like to receive information, tips, and offers about Azure and other Microsoft products and services.

☐ I would like Microsoft to share my information with select partners so I can receive relevant information about their products and services.
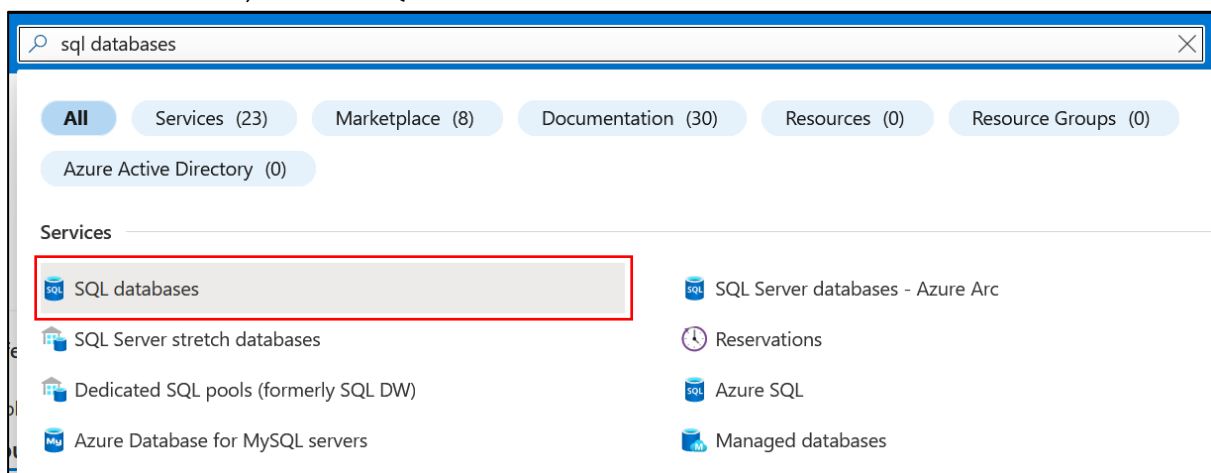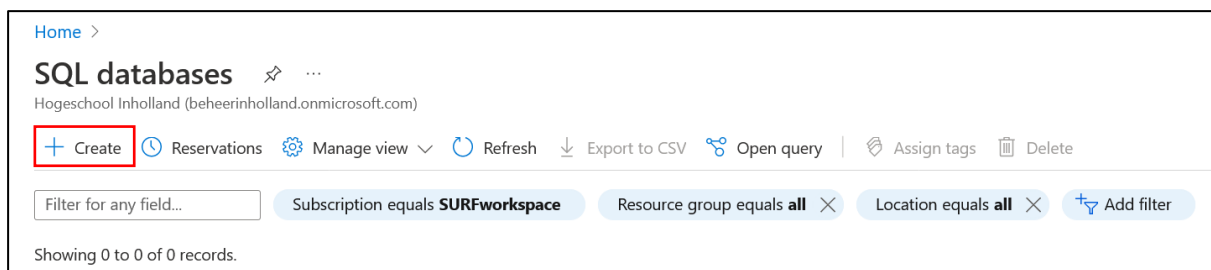
Privacy Statement

Sign up

5. Once you finish everything, you will end up on the Microsoft Azure homepage. Make certain that you have **credits available** (amounts and currency can vary).
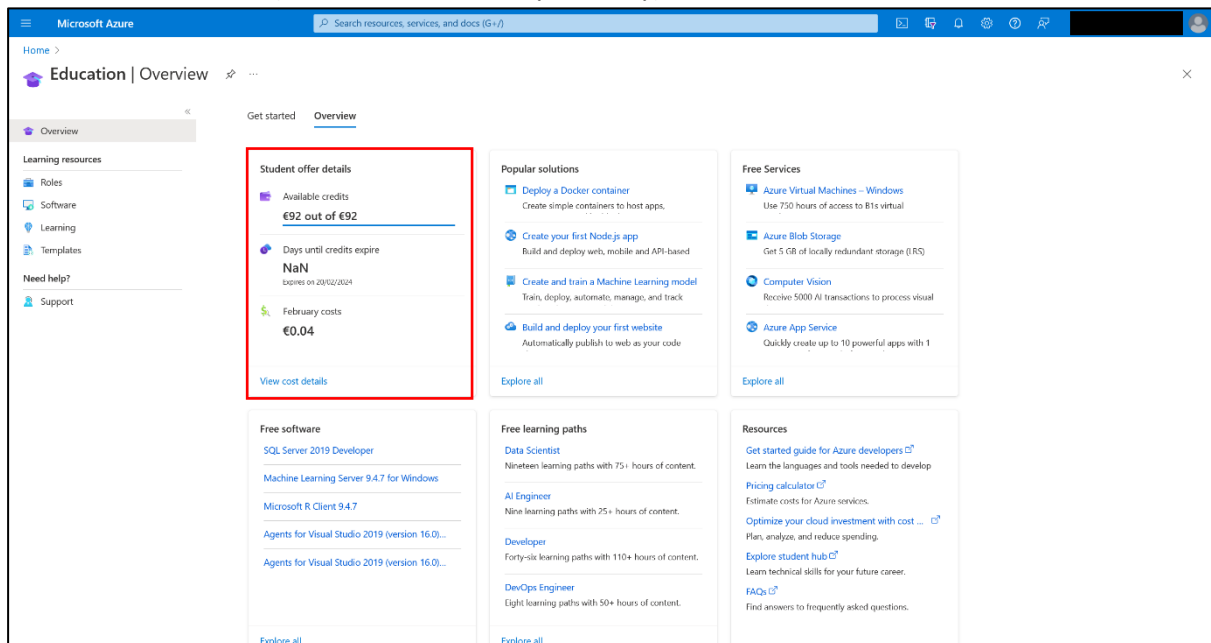
6. Go to the search bar, look for "**SQL databases**" and click on it.

7. Click on "**Create**".

8. Click on "**Subscription**", change it to "**Azure for Students**" and then click on "**Create new**".

Project details

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

1.

Subscription * ⓘ
> Azure for Students ⌄

Resource group * ⓘ
> Select a resource group ⌄

2. Create new

9. Fill in the resource group name and click "**OK**".

A resource group is a container that holds related resources for an Azure solution.

Name *
> test1 ✓

[OK]   [Cancel]

10. Fill in the Database name and click on "**Create new**".

Database details

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

Database name *
> test1database ✓

Server * ⓘ
> Select a server ⌄

Create new

11. Choose the Server name, then in **Location** choose "**(Europe) West Europe**", click "**Use SQL authentication**", fill in all the login fields, and then click "**OK**".

12. In Workload environment choose "**Development**".

13. Click on "**Configure database**".

14. Choose the "**Basic**" service tier and click on "**Apply**".

Service and compute tier

Select from the available tiers based on the needs of your workload. The vCore model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. Learn more ☐

Service tier	Basic (For less demanding workloads) ⌄

vCore-based purchasing model

General Purpose (Scalable compute and storage options)

DTUs Compare DTU options ☐ | Hyperscale (On-demand scalable storage)

5 (Basic) | Business Critical (High transaction rate and high resiliency)

Data max size (GB) | **DTU-based purchasing model**

Basic (For less demanding workloads)

Standard (For workloads with typical performance requirements)

Premium (For IO-intensive workloads)

SQL

Cost summary

Basic (Basic)
Cost per **DTU** (in USD)   0.98
DTUs selected   x 5

ESTIMATED COST / MONTH   4.90 USD

15. Choose "**Locally-redundant backup storage**".

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

16. Click on "**Next : Networking**".

[Review + create]   [Next : Networking >]

17. In **Network connectivity** select "**Public endpoint**".

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

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'test1serverproject' 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 ☐

Connectivity method * ⓘ   ○ No access
⦿ Public endpoint
○ Private endpoint

18. In the **Firewall rules** change section **Add current client IP address** to "**Yes**" and leave the rest as is.

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 access this server *   No   Yes

Add current client IP address *   No   Yes

19. Leave the rest on default and click on "**Review + Create**" and then click on "**Create**" again.

Review + create   < Previous   Next : Security >

20. Now it will start deploying the server. (It can take a few minutes)

… Deployment is in progress

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServe...   Start time: 2/20/2023, 7:26:30 PM
Subscription: Azure for Students   Correlation ID: 359e3af1-ced9-4281-9898-116838997d8f
Resource group: test1

21. Server is deployed once you see this message. Click on "**Go to resource**".

✓ Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServe...   Start time: 2/20/2023, 7:26:30 PM
Subscription: Azure for Students   Correlation ID: 359e3af1-ced9-4281-9898-116838997d8f
Resource group: test1

∨ Deployment details

∧ Next steps

Go to resource

22. Make sure that the status is set to **Online** and copy the **Server name**.

Home > Microsoft.SQLDatabase.newDatabaseNewServer_78a3d5fa2e994fb7bedf5 | Overview >

test1database (test1serverproject/test1database) ⚲ ☆ …
SQL database

🔎 Search   « | 🗐 Copy 🔄 Restore ⤒ Export 🔒 Set server firewall 🗑 Delete ⚲ Connect with... ∨ 🗟 Feedback

■ Overview | ⓘ This database was just created. Do you need any help getting started?

■ Activity log
                   ∧ Essentials
● Tags
                   Resource group (move) : test1   Server name   : test1serverproject.database.windows.net
⚲ Diagnose and solve problems   Status   : Online   Elastic pool   : No elastic pool
⚑ Getting started   Location   : West Europe   Connection strings   : Show database connection strings
⚏ Query editor (preview)   Subscription (move)   : Azure for Students Pricing tier   : Basic
Settings   Subscription ID   : 925ce3c2-ec1f-4892-ab97-5d1b9443e153   Earliest restore point : No restore point available
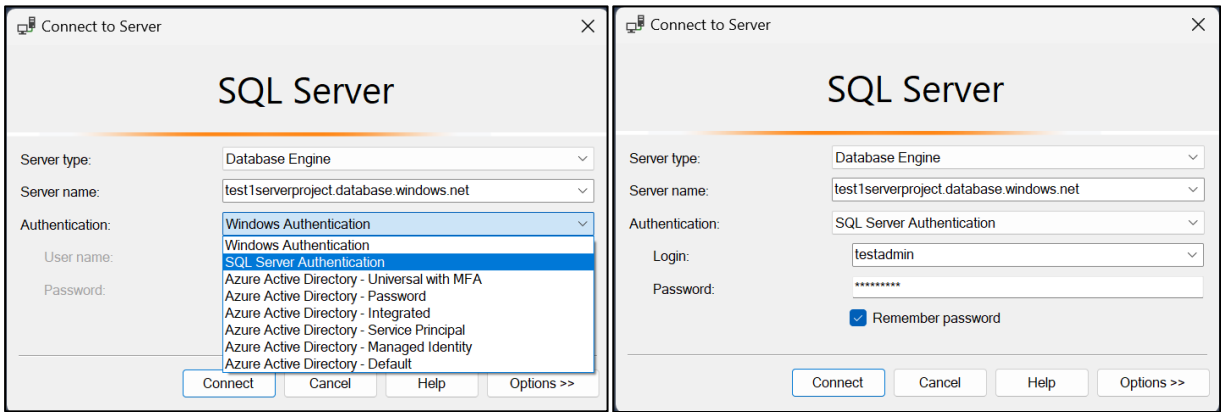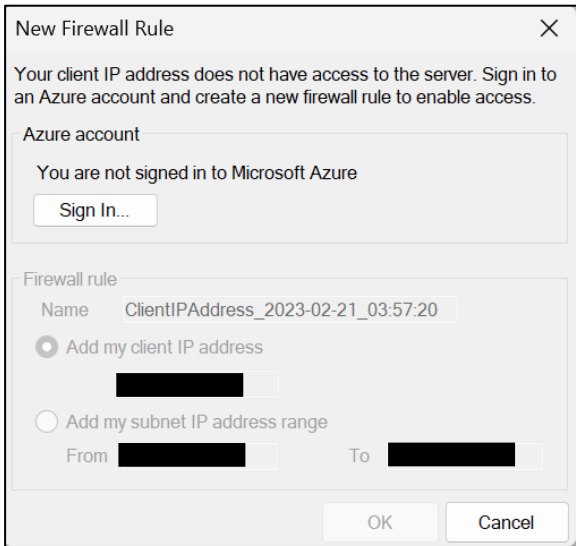
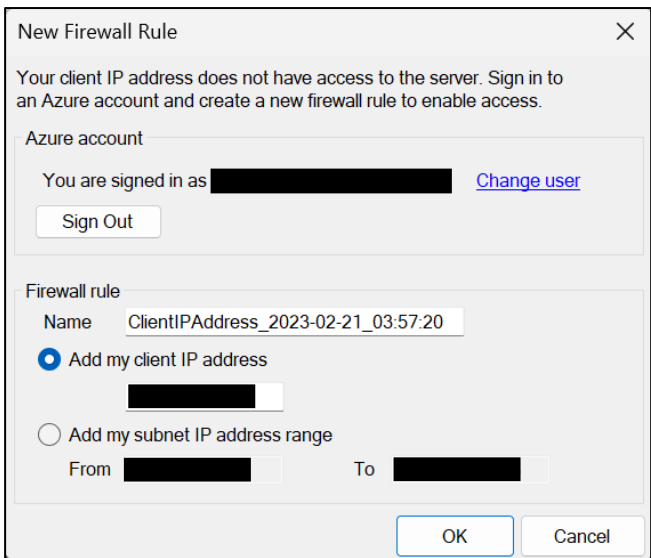◎ Compute + storage   Tags (edit)   : Click here to add tags

23. Open "**SQL Server Management Studio**", paste the server's name, select "**SQL Server Authentication**" and proceed to log in with your previously created admin account in the **step 11**.
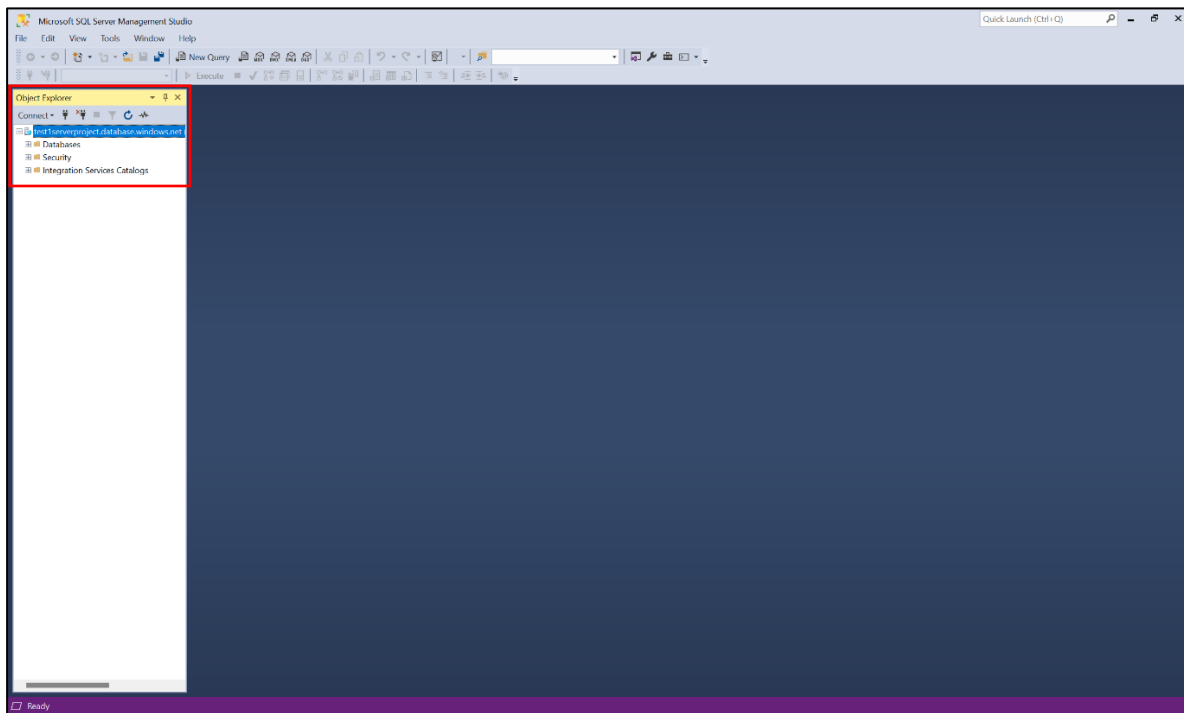

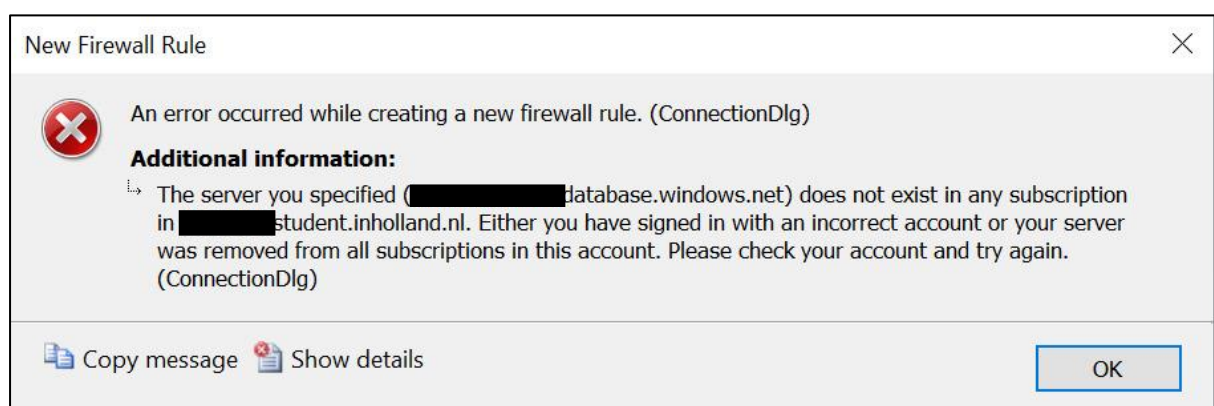24. Click on "**Sign In…**" and log in to your student account.

25. Leave everything on default and click "**OK**". (DO NOT MODIFY THE CLIENT IP ADDRESS)

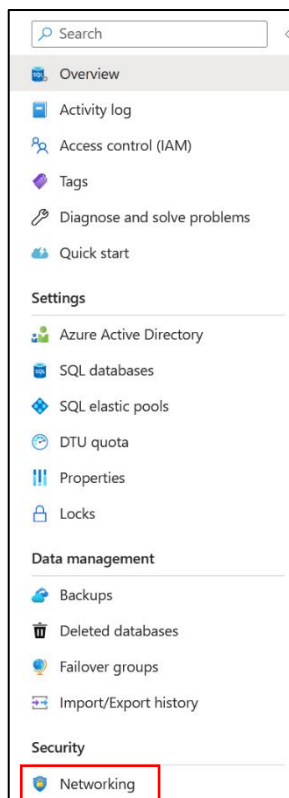26. Once you see this page and directories on the left – configuration is done, and your SQL server is ready to use!

EXTRA STEP IF YOU GET THIS ERROR!

1. Go to https://portal.azure.com/#home and click on your **SQL database**.

2. On the left side search for **Networking**.

3. Click on **"Set server firewall"**.

4. Click on **"Add a firewall rule"**.

5. Fill in **Start IP** and **End IP** as shown in the screenshot and click on **OK**.

Add a firewall rule

Rule name	Start IP	End IP
firewall all	100.0.0.0	255.255.255.255

OK   Cancel

6. Click on **Save**.

Save   Discard