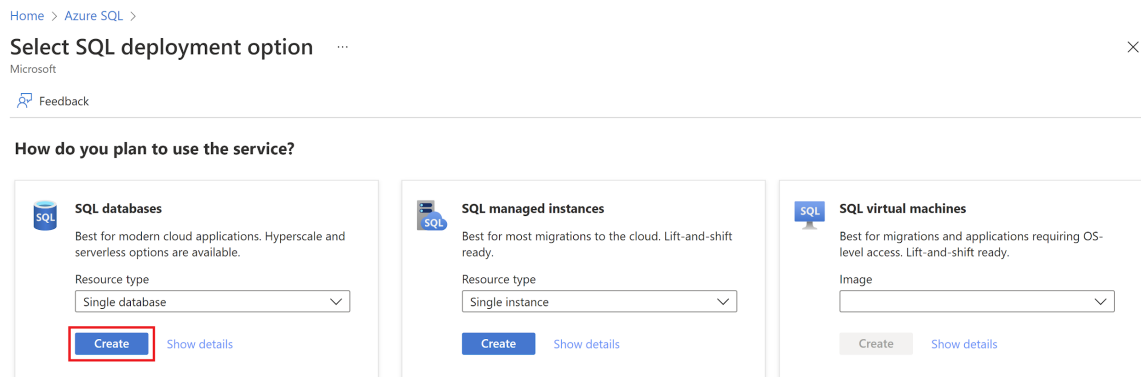


# Create a single database - Azure SQL Database

To create a single database in the Azure portal, this quickstart starts at the Azure SQL page.

1. Browse to the [Select SQL Deployment option](#) page.
2. Under SQL databases, leave Resource type set to **Single database**, and select **Create**.



Home > Azure SQL >

### Select SQL deployment option

Microsoft

Feedback

How do you plan to use the service?

**SQL databases**

Best for modern cloud applications. Hyperscale and serverless options are available.

Resource type

Single database

**Create** Show details

**SQL managed instances**

Best for most migrations to the cloud. Lift-and-shift ready.

Resource type

Single instance

**Create** Show details

**SQL virtual machines**

Best for migrations and applications requiring OS-level access. Lift-and-shift ready.

Image

Create Show details

3. On the Basics tab of the Create SQL Database form, under Project details, select the desired Azure Subscription (**Azure for Students**).
4. For the Resource group, select Create new, enter *myResourceGroup*, and select OK.
5. For Database name, enter **ExercisesDatabase**.
6. For Server, select Create new, and fill out the New server form with the following values:
  - Server name: Enter *mysql/server*, and add some characters for uniqueness. We can't provide an exact server name to use because server names must be globally unique for all servers in Azure, not just unique within a subscription. So enter something like *mysqlserver12345*, where 12345 can be your student\_id, and the portal lets you know if it's available or not.
  - Location: Select a location (**East US**) from the dropdown list.
  - Authentication method: Select **Use SQL authentication**.
  - Server admin login: Enter **azureuser**.
  - Password: Enter a **password** that meets requirements, and enter it again in the Confirm password field. **Don't forget your password.**
7. Select OK.
8. Leave Want to use SQL elastic pool set to **No**.
9. Workload environment: Production
10. Under Compute + storage, select Configure database.
11. This quickstart uses a serverless database, so

- leave Service tier set to **General Purpose** (Scalable compute and storage options).
- Set Compute tier to **Serverless**. Select Apply.
- Set Max vCores to 1.
- Set auto-pause delay to 1 hour.
- Set Data max size to 8GB.
- Leave Would you like to make this database zone redundant to No.
- Click Apply

[Home](#) > [Azure SQL](#) > [Select SQL deployment option](#) > [Create SQL Database](#) >

## Configure

 Feedback

### 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  [Compare service tiers](#)

Compute tier

☐ **Provisioned** - Compute resources are pre-allocated. Billed per hour based on vCores configured.


☒ **Serverless** - Compute resources are auto-scaled. Billed per second based on vCores used.

### Compute Hardware

Select the hardware configuration based on your workload requirements. Availability of compute optimized, memory optimized, and confidential computing hardware depends on the region, service tier, and compute tier.

Hardware Configuration **Standard-series (Gen5)**

[Apply](#)



Cost summary

**Gen5 - General Purpose (GP\_5\_Gen5\_1)**

Cost per GB (in USD)

Max storage selected (in GB)

**ESTIMATED STORAGE COST / MONTH**

**COMPUTE COST / VCORE / SECOND**

12. Under Backup storage redundancy, choose Geo-redundant backup storage.
13. Select Next: Networking at the bottom of the page.

## Create SQL Database

Microsoft

### Project details

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

Subscription \*

Resource group \*  [Create new](#)

### Database details

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

Database name \*

Server \*  [Create new](#)

Want to use SQL elastic pool? \* ☐ Yes ☒ No

Compute + storage \* **General Purpose - Serverless**  
Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled  
[Configure database](#)

[Review + create](#)

[Next : Networking >](#)

14. On the Networking tab, for Connectivity method, select Public endpoint.
15. For Firewall rules, set Add current client IP address to Yes. Leave Allow Azure services and resources to access this server set to No.

**Create SQL Database** ...

Microsoft

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 'mysqlserver' 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 \* ⓘ

☒ Public endpoint

☐ No access

☐ Private endpoint

**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 \*

Add current client IP address \*

16. Under Connection policy, choose the Default [connection policy](#), and leave the Minimum TLS version at the default of TLS 1.2.
17. Select Next: Security at the bottom of the page.

**Connection policy**

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy ⓘ

☒ Default - Uses Redirect policy for all client connections originating inside of Azure and Proxy for all client connections originating outside Azure

☐ Proxy - All connections are proxied via the Azure SQL Database gateways

☐ Redirect - Clients establish connections directly to the node hosting the database

**Encrypted connections**

This server supports encrypted connections using Transport Layer Security (TLS). For information on TLS version and certificates, refer to connecting with TLS/SSL. [Learn more](#)

Minimum TLS version ⓘ TLS 1.2

18. On the Security page, leave Enable Microsoft Defender for SQL to **Not now**.
19. On the Additional settings tab

- In the Data source section, for Use existing data, select **Sample**.
- Select **Review + create** at the bottom of the page:

[Home](#) > [SQL databases](#) >

## Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Customize additional configuration parameters including collation & sample data.

### Data source

Start with a blank database, restore from a backup or select sample data to populate your new database.

Use existing data \*

None Backup **Sample**

AdventureWorksLT will be created as the sample database.

### Database collation

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL\_Latin1\_General\_CP1\_CI\_AS. [Learn more](#)

Collation ⓘ

SQL\_Latin1\_General\_CP1\_CI\_AS

**Review + create**

< Previous

Next : Tags >

20. On the Review + create page, after reviewing, select Create.

## Set Server Firewall

21. Once the process above is finished press “Go to resource”

[Home](#) >

**Microsoft.PostgreSQLServer.createPostgreSqlServer\_19da4aa8817b4b** | Overview

Deployment

Search (Ctrl+/) << Delete Cancel Redeploy Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

✓ Your deployment is complete

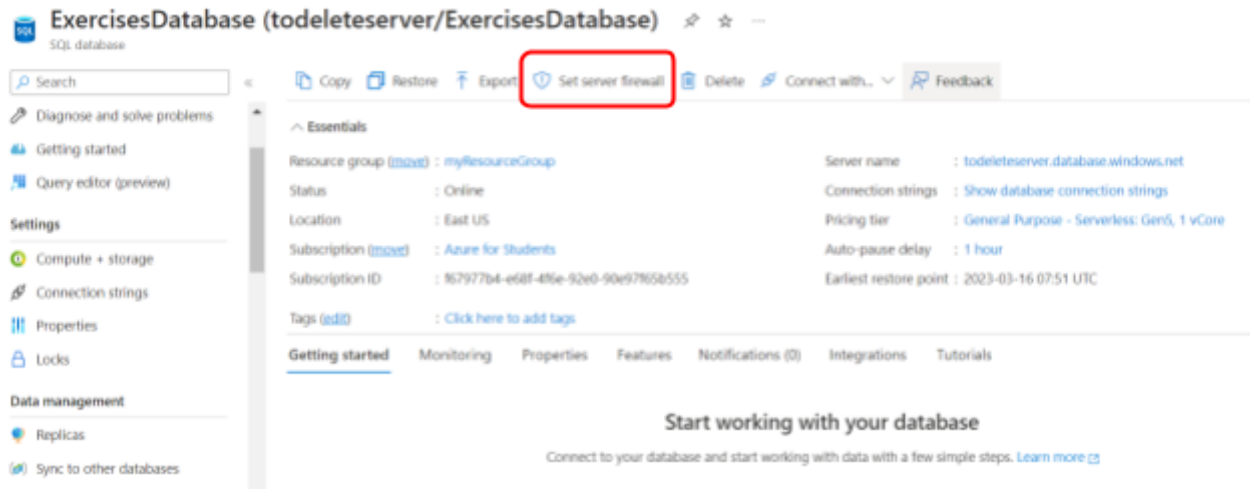
Deployment name: Microsoft.PostgreSQLServer.createPostgreSqlServer\_19da4aa8817b4b Start time: 3/24/2021, 2:02:20 PM  
Subscription: Azure for Students Correlation ID: f73f9edf-1b76-4a43-81ac-19c726e93dc6  
Resource group: student\_resource\_group

Deployment details (Download)

Next steps

**Go to resource**

22. You should be redirected to your control panel. Go to the “Set server firewall” tab:



- Go to the “Public Access Tab”
- In the Public network access Set “Selected Networks”

#### Public network access

Public Endpoints allow access to this resource through the internet using a public IP address. An application or resource that is granted access with the following network requires proper authorization to access this resource. [Learn more](#)

Public network access

☐ Disable

☒ Selected networks

Connections from the IP addresses configured in the Firewall rules section below will have access to this database. By default, no public addresses are allowed. [Learn more](#)

- Go to Firewall rules and click “Add a firewall rule”

#### Firewall rules

Allow certain public internet IP addresses to access your resource. [Learn more](#)

+ Add your client IPv4 address (5.55.107.72)

+ Add a firewall rule

- Add a new firewall rule named “All IPs” with a start-ip of 0.0.0.0 and an end ip of 255.255.255.255 and click ok

Add a firewall rule

Rule name	Start IP	End IP
<input type="text" value="All IPs"/>	<input type="text" value="0.0.0.0"/>	<input type="text" value="255.255.255.255"/>
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>

- Click “Allow Azure services and resources to access this server” and click Save

Exceptions

☒ Allow Azure services and resources to access this server 

---

Save

Discard