

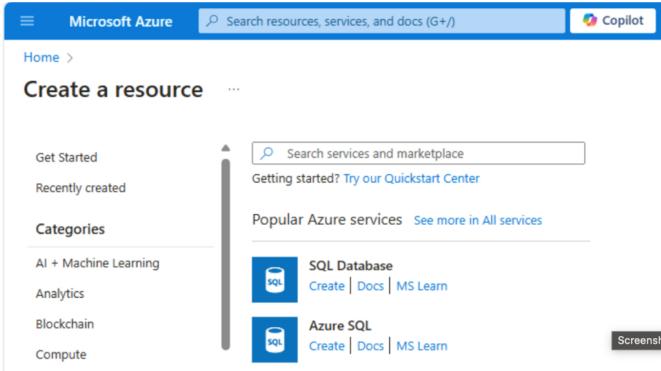
Relational databases

Azure SQL relational database

Steps to create an Azure database



1. **Create an Azure Account:** Sign up on the Azure website if you don't have an account.
2. **Sign In to the Azure Portal:** Access the portal using your credentials.
3. **Create a Workspace and Resource:**
 - **Workspace:** Set up a new or use an existing workspace to organize your resources and streamline management.
 - **Resource Group:** Create a new resource group or select an existing one to contain and manage the SQL database and related assets.
4. **Create a New SQL Database:**
 - Navigate to "SQL Databases" and click "Create."
 - Configure basic settings, including the database name, server details, and subscription.
 - Choose the appropriate compute and storage options based on your performance and budget requirements.
5. **Configure Networking:** Set the connectivity method, such as public or private endpoints, and configure firewall rules to control access to the database.
6. **Additional Settings:** Select the data source, set database collation, and choose backup storage redundancy options.
7. **Review and Create:** Review all configurations carefully before proceeding to create and deploy the database.
8. **Access and Manage:** Use the Azure portal or SQL clients to manage database settings, security, and performance monitoring.
9. **Backup and Security:** Configure automated backups and enforce security best practices, such as data encryption and access controls.
10. **Monitoring and Scaling:** Regularly monitor the database's performance metrics and adjust resources or scaling options as needed to optimize performance and cost.



Microsoft Azure Copilot

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Create a resource ...

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Categories

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Analytics

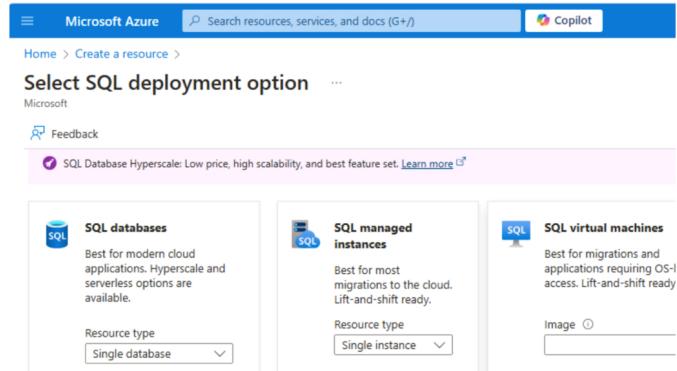
Blockchain

Compute

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Azure SQL [Create](#) | [Docs](#) | [MS Learn](#)



Microsoft Azure Copilot

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Select SQL deployment option ...

Microsoft

Feedback

SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)

SQL databases

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

Resource type [Single database](#)

SQL managed instances

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

Resource type [Single instance](#)

SQL virtual machines

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

Image [\(1\)](#)

Create SQL Database

Project details

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

Subscription * MOC Subscription-10d49474839 (New) AdventureResource Create new

Database details

[Review + create](#) [Next : Networking >](#)

Create SQL Database

Project details

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

Subscription * MOC Subscription-10d49474839 (New) AdventureResource Create new

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

Name * [OK](#) [Cancel](#)

Screenshot 2019-11-16 at 17:43:11

[Review + create](#) [Next : Networking >](#)

Create SQL Database

Want to use SQL elastic pool? Yes No

Workload environment Development Production

Default settings provided for Development workloads. Configurations can be modified as needed.

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

[Review + create](#) [Next : Networking >](#)

Create SQL Database

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[Configure database](#)

[Review + create](#) [Next : Networking >](#)

Create SQL Database

Backup storage redundancy Locally-redundant backup storage Zone-redundant backup storage Geo-redundant backup storage

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.

[Review + create](#) [Next : Networking >](#)

Create SQL Database

Cost summary

General Purpose (GP_S_Gen5_1)	Cost per GB (in USD)	0.12
	Max storage selected (in GB)	x 41.6
ESTIMATED STORAGE COST / MONTH		
4.78 USD		
COMPUTE COST / VCORE SECOND		
0.0000145 USD		

! Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. [Learn more about serverless billing](#)

[Review + create](#) [Next : Networking >](#)

Create SQL Database

Networking

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

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

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 (except Private Endpoint connections) 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

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

[Review + create](#) [Next : Firewall >](#)

Create SQL Database

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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

Connection policy

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

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

Redirect - Clients establish connections directly to the node hosting the

[Review + create](#) [Next : Firewall >](#)

[Review + create](#) < Previous Next : Security >

Create SQL Database

Microsoft

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:

Cost summary

 Cost summary

Review + create < Previous Next : Security >

[Review + create](#) < Previous Next : Security >

Create SQL Database

Microsoft



Cost summary

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ESTIMATED STORAGE COST / MONTH	
4.78 usd	
COMPUTE COST / VCORE SECOND	
0.000145 usd	

NOTES
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Review + create < Previous Next : Security >

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Microsoft Defender for SQL
Protect your data using Microsoft Defender for SQL, a unified security package including vulnerability assessment and advanced threat protection for your server. [Learn more](#)

Get started with a 30 day free trial period, and then 15 USD/server/month.

Enable Microsoft Defender for SQL * Start free trial Not now

Ledger
Ledger cryptographically verifies the integrity of your data and detects any tampering that might have occurred. [Learn more](#)

Ledger **Not configured** [Configure ledger](#)

Review + create < Previous Next : Additional settings >

Create SQL Database

Microsoft

Ledger cryptographically verifies the integrity of your data and detects any tampering that might have occurred. [Learn more](#)

Ledger **Not configured** [Configure ledger](#)

Server identity
Use system assigned or user assigned managed identities to enable central access management between this database and other Azure resources. [Learn more](#)

Server identity **Not enabled** [Configure identities](#)

Transparent data encryption key management
Transparent data encryption encrypts your databases, backups, and logs at rest without any changes to your application. To enable encryption, go to each database. Database level settings if enabled, will override the server level setting. [Learn more](#)

Review + create < Previous Next : Additional settings >

Create SQL Database

Microsoft

Transparent data encryption key management
Transparent data encryption encrypts your databases, backups, and logs at rest without any changes to your application. To enable encryption, go to each database. Database level settings if enabled, will override the server level setting. [Learn more](#)

Server level key **Service-managed key selected** [Configure transparent data encryption](#)

Database level key **Not configured** [Configure transparent data encryption](#)

Always encrypted
Always encrypted is a family of industry-leading data protection features that provide a separation between those who own the data and can view it, and those who manage the data but should have no access, on-premises database administrators, cloud database operators, or other high-privileged but unauthorized users. [Learn more](#)

Enable secure enclaves **ON** OFF

Review + create < Previous Next : Additional settings >

Create SQL Database

Microsoft



Cost summary

General Purpose (GP_S_Gen5_1)	0.12
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Review + create < Previous Next : Additional settings >

Create SQL Database

AdventureWorksLT

Selecting this sample will modify the "Compute + Storage" settings configured in Basics, for backup compatibility. Visit "Basics" or "Review + Create" tabs to review the changes.

Do you want to continue?

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_CI_AS. [Learn more](#)

Collation *

Review + create < Previous Next : Review + create >

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Tags are name/value pairs that enable you to categorize and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name <input type="text"/>	Value <input type="text"/>	Resource <input type="text"/>
3 selected		

Review + create < Previous Next : Review + create >

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags [Review + create](#)

Product details

SQL database by Microsoft [Terms of use | Privacy policy](#)

Estimated cost
Storage cost 4.78 USD / month + Compute cost 0.000145 USD / vCore second

Terms
By clicking "Create", I (a) agree to the legal terms and privacy statement(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

[Create](#) < Previous Download a template for automation

Microsoft.SQLDatabase.newDatabaseNewServer_9f696ff6a0...

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

Inputs Outputs Template

Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_9f696ff6a0f94fe...
Subscription : MOC Subscription-10d49474839
Resource group : RG1
Start time : 7/29/2024, 8:01:25 AM
Correlation ID : 2fe23d9f-b70e-45fd-a2db-a71d0c6d4a68

Deployment details

Next steps

[Go to resource](#)

Give feedback Tell us about your experience with deployment

AdventureWorks (sqlserver42757130/AdventureWorks)

SQL database

Copy Restore Export Set server firewall Delete ...

Overview

Resource group (move) : RG1
Status : Online
Location : UK South
Subscription (move) : MOC Subscription-10d49474839
Subscription ID : c4abc102-dd89-4780-bfa3-3398c97cffb5
Server name : sqlserver42757130.database.windows.net
Connection strings : Show database connection strings
Pricing tier : General Purpose - Serverless Gen5, 1 vCore
Auto-pause delay : 1 hour
Earliest restore point : No restore point available
Tags (edit) : Add tags

[Getting started](#) Monitoring Properties Features Notifications (0)

AdventureWorks (sqlserver42757130/AdventureWorks) | Qu...

SQL database

Search Login New Query Open query Feedback Getting started

Query editor (preview)

Query editor (preview) is a tool to run SQL queries against Azure SQL Database in the Azure portal. It is designed for lightweight querying and object exploration in your database. For more information and troubleshooting, [Learn more](#)

Welcome to SQL Database Query Editor

SQL server authentication

Login * Password *

AdventureWorks (sqlserver42757130/AdventureWorks) | Query editor ...

SQL database

Search Login New Query Open query Feedback Getting started

Query editor (preview)

Showing limited object explorer here. For full capability, please click here to open Azure Data Studio.

Tables

Results Messages

ProductID Name

680 HL Road Frame - Black, 58

706 HL Road Frame - Red, 58