

EX-26. Create a SQL storage service and perform a basic query using any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Database as a Service (DaaS) using Azure.

Aim

To create a **SQL Storage Service using Microsoft Azure SQL Database** and perform basic SQL queries to demonstrate **Database as a Service (DaaS)**.

Procedure

Step 1: Create an Azure Account

1. Open a web browser and log in to the **Azure Portal**.
2. If not registered, create a new Azure account.

Step 2: Create an Azure SQL Database

1. In the Azure Portal, click **Create a resource**.
2. Select **Databases → SQL Database**.
3. Enter the following details:
 - **Database Name:** StudentDB
 - **Server:** Create a new SQL server
 - **Authentication:** SQL authentication
 - **Username & Password:** Set admin credentials
4. Choose **Basic / DTU-based pricing**.
5. Click **Review + Create → Create**.

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 * ⓘ

Azure for Students

Resource group * ⓘ

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 *

historydata

✓

Server * ⓘ

(new) webser (Central India)

▼

Create new

Want to use SQL elastic pool? ⓘ

☐ Yes

☒ No

Workload environment

☒ Development

☐ Production

i Default settings provided for Development workloads. Configurations can



Cost summary

General Purpose (GP_S_Gen5_1)

Cost per **GB** (in USD) 0.13

Max storage selected (in GB) x 41.6

ESTIMATED STORAGE COST / MONTH 5.45 USD

COMPUTE COST / VCORE SECOND ¹ 0.000159 USD

NOTES

¹ Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. [Learn more about serverless billing](#)

Step 3: Configure Firewall Settings

1. Open the SQL Server resource.

2. Select **Networking**.
3. Enable:
 - *Allow Azure services and resources to access this server*
4. Add your client IP address.
5. Save the settings.

[Home](#) >

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 5.45 USD / month + Compute cost 0.000159 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

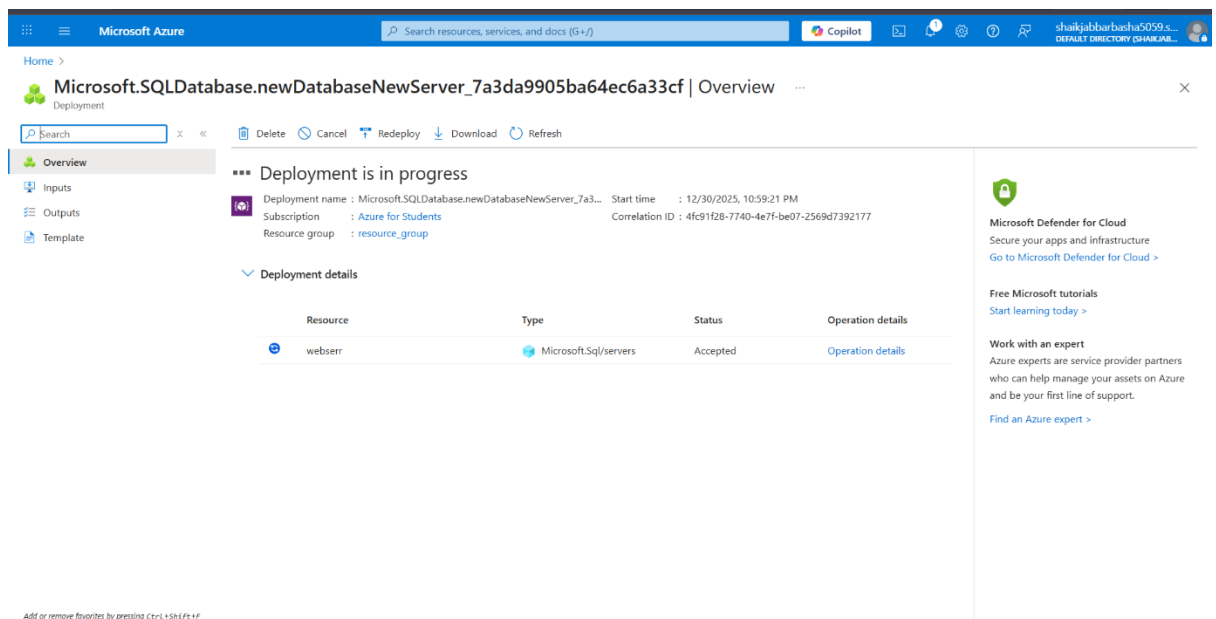
Subscription	Azure for Students
Resource group	resource_group
Region	Central India
Database name	historydata
Server	(new) webser
Authentication method	Microsoft Entra-only authentication

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

Step 4: Connect to Azure SQL Database

1. Open **Query Editor (Preview)** in the Azure Portal
(or use *SQL Server Management Studio*).

2. Log in using SQL admin credentials.
3. Select the database StudentDB.



Observe DaaS Features

1. Azure automatically manages:
 - Database server
 - Backup and recovery
 - Security
 - Scaling
2. Users interact only with data and queries.

Result

A **SQL storage service** was successfully created using **Azure SQL Database**, and basic SQL queries were executed, demonstrating **Database as a Service (DaaS)**.

Outputs:

Home >



Microsoft.SQLDatabase.newDatabaseNewServer_7a3da9905ba64ec6a33cf | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete



Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_7a3... Start time : 12/30/2025, 10:59:26 PM
Subscription : [Azure for Students](#) Correlation ID : 4fc91f28-7740-4e7f-be07-2569d7392177
Resource group : [resource_group](#)

Deployment details

Next steps

[Go to resource](#)

Home > Microsoft.SQLDatabase.newDatabaseNewServer_7a3da9905ba64ec6a33cf | Overview >



mydata (webser/mydata)

SQL database



List the access control settings for this SQL database.

Top CPU consuming queries

Show me performance metrics for this SQL database.

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Mirror database in Fabric (preview)

Resource visualizer

Settings

Data management

Integrations

Power Platform

Security

Intelligent performance

Monitoring

Automation

Help

Copy Restore Export Set server firewall Delete Connect with... Feedback

Resource group (move) : [resource_group](#)

Status : Online

Location : Southeast Asia

Subscription (move) : [Azure for Students](#)

Subscription ID : c552dc0f-ec3d-4ed4-9b72-b669503ca0d1

Tags (edit) : [Add tags](#)

Server name : [webser.database.windows.net](#)

Connection strings : [Show database connection strings](#)

Pricing tier : [General Purpose - Serverless: Gen5, 1 vCore](#)

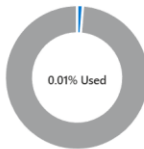
Auto-pause delay : [1 hour](#)

Earliest restore point : No restore point available

Getting started **Monitoring** Properties Features Notifications (0) Integrations Tutorials

Database data storage

Review the below metrics and monitor your applications and infrastructure.



Used space 4.13 MB Remaining space 32 GB Allocated space 16 MB Max storage 32 GB

Key metrics

Add or remove favorites by pressing Ctrl+Shift+F