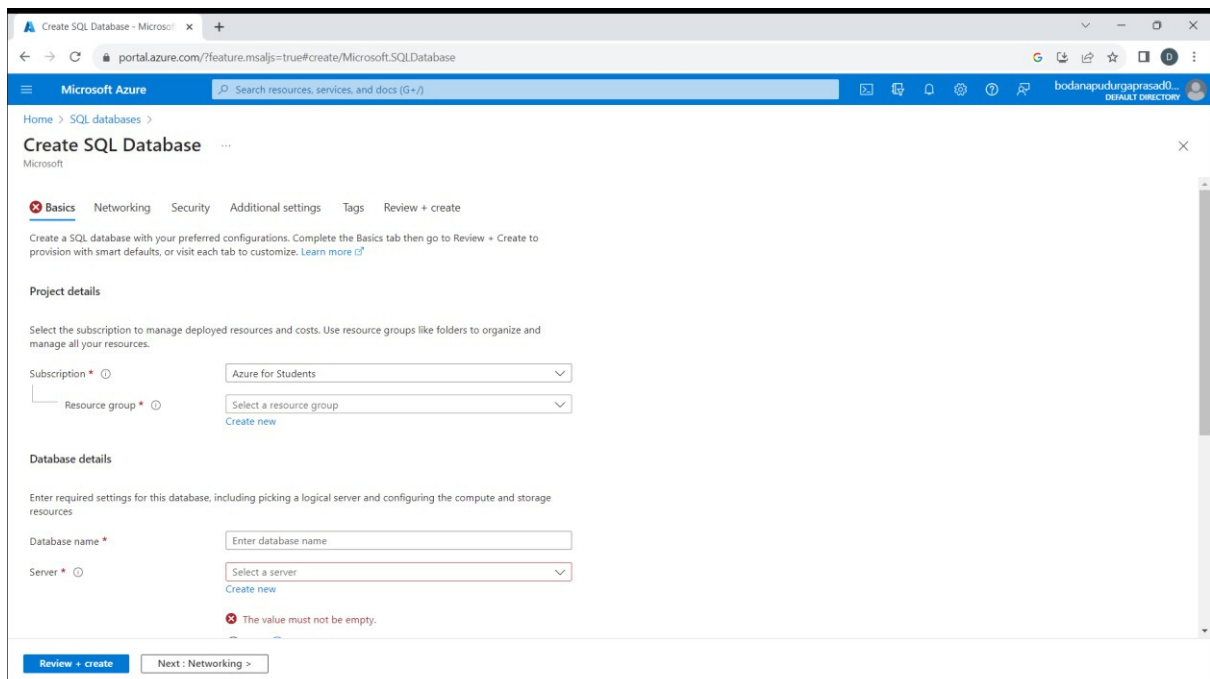
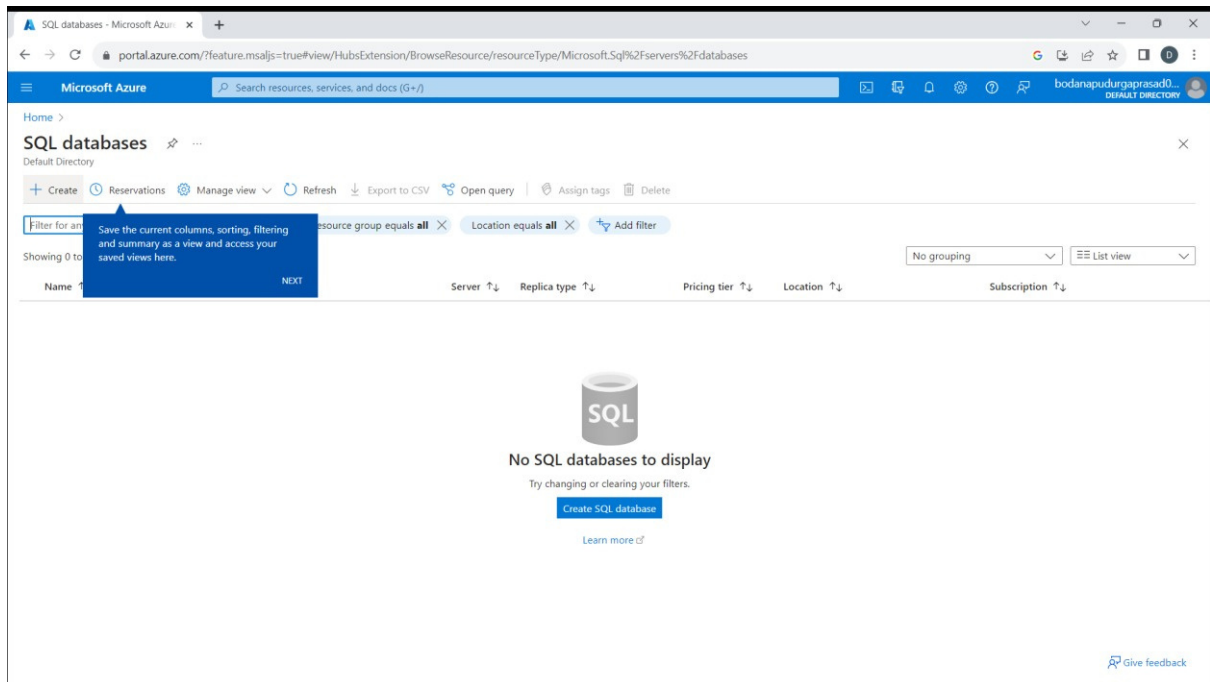


Experiment-20

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)



Create SQL Database - Microsoft

portal.azure.com/?feature.msalsjs=true#create/Microsoft.SQLDatabase

Microsoft Azure

Home > SQL databases >

Create SQL Database

Microsoft

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

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](#)

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.

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

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

Create SQL Database - Microsoft

portal.azure.com/?feature.msalsjs=true#create/Microsoft.SQLDatabase

Microsoft Azure

Home > SQL databases >

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 "luffyzoro" 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

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 database

Encrypted connections

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

Cost summary

General Purpose (GP_S_Gen5_1)
Cost per GB (in INR) 10.30
Max storage selected (in GB) x 41.6

ESTIMATED STORAGE COST / MONTH 428.31 INR
COMPUTE COST / VCORE SECOND¹ 0.012520 INR

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

Create SQL Database - Microsoft

portal.azure.com/?feature.msalsjs=true#create/Microsoft.SQLDatabase

Microsoft Azure

Search resources, services, and docs (G+I)

Home > SQL databases >

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 1178.0175 INR/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

Server identity

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

Server identity

Not enabled

Configure identities

Review + create

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Next : Additional settings >

SQL

Cost summary

General Purpose (GP_S_Gen5_1)

Cost per GB (in INR)

10.30

Max storage selected (in GB)

x 41.6

ESTIMATED STORAGE COST / MONTH

428.31 INR

COMPUTE COST / VCORE SECOND¹

0.012520 INR

NOTES

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Create SQL Database - Microsoft

portal.azure.com/?feature.msalsjs=true#create/Microsoft.SQLDatabase

Microsoft Azure

Search resources, services, and docs (G+I)

Home > SQL databases >

Create SQL Database

Microsoft

Basics

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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

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

Find a collation

Maintenance window

Select a preferred maintenance window from the drop down. Please note, during a maintenance event, Azure SQL Database are fully available and accessible but some of the maintenance updates require a failover as Azure takes SQL DB instances offline for a short time to apply the maintenance updates. If the database is part of elastic pool, the maintenance configuration of elastic pool will be applied. [Learn more](#)

Maintenance window

System default (5pm to 8am)

Review + create

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Next : Tags >

SQL

Cost summary

General Purpose (GP_S_Gen5_1)

Cost per GB (in INR)

10.30

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x 41.6

ESTIMATED STORAGE COST / MONTH

428.31 INR

COMPUTE COST / VCORE SECOND¹

0.012520 INR

NOTES

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Create SQL Database - Microsoft

portal.azure.com/?feature.msalsjs=true#create/Microsoft.SQLDatabase

Microsoft Azure

Search resources, services, and docs (G+)

Home > SQL databases >

Create SQL Database

Microsoft

Basics

Networking

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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	Value	Resource
Isn	28	2 selected
	28	2 selected

SQL

Cost summary

General Purpose (GP_S_Gen5_1)

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x 41.6

ESTIMATED STORAGE COST / MONTH

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COMPUTE COST / VCORE SECOND¹

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NOTES

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Review + create

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Create SQL Database - Microsoft

portal.azure.com/?feature.msalsjs=true#create/Microsoft.SQLDatabase

Microsoft Azure

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Product details

SQL database

by Microsoft

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Estimated cost

Storage cost 428.31 INR / month + Compute cost 0.012520 INR / 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

prasad

Region

Central India

Database name

hinata

Server

(new) luffyzoro

Authentication method

Microsoft Entra-only authentication

Microsoft Entra Admin

Azure Advisor

Create

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[Download a template for automation](#)

SQL

Cost summary

General Purpose (GP_S_Gen5_1)

Cost per GB (in INR)

10.30

Max storage selected (in GB)

x 41.6

ESTIMATED STORAGE COST / MONTH

428.31 INR

COMPUTE COST / VCORE SECOND¹

0.012520 INR

NOTES

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

Microsoft Azure portal showing the deployment details for a Microsoft SQL Database. The deployment is in progress.

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer_b5daa315fa33418fa1648
Subscription: Azure for Students
Resource group: prasad

Deployment details:

Resource	Type	Status	Operation details
luffyzoro	SQL server	Accepted	Operation details

Give feedback: [Tell us about your experience with deployment](#)

Microsoft Defender for Cloud: Secure your apps and infrastructure. [Go to Microsoft Defender for Cloud >](#)

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Work with an expert: Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. [Find an Azure expert >](#)

Microsoft Azure portal showing the deployment details for a Microsoft SQL Database. The deployment is complete.

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer_b5daa315fa33418fa1648
Subscription: Azure for Students
Resource group: prasad

Deployment details:

Next steps: [Go to resource](#)

Give feedback: [Tell us about your experience with deployment](#)

Deployment succeeded: Deployment "Microsoft.SQLDatabase.newDatabaseNewServer_b5daa315fa33418fa1648" to resource group "prasad" was successful. [Go to resource](#) [Pin to dashboard](#)

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