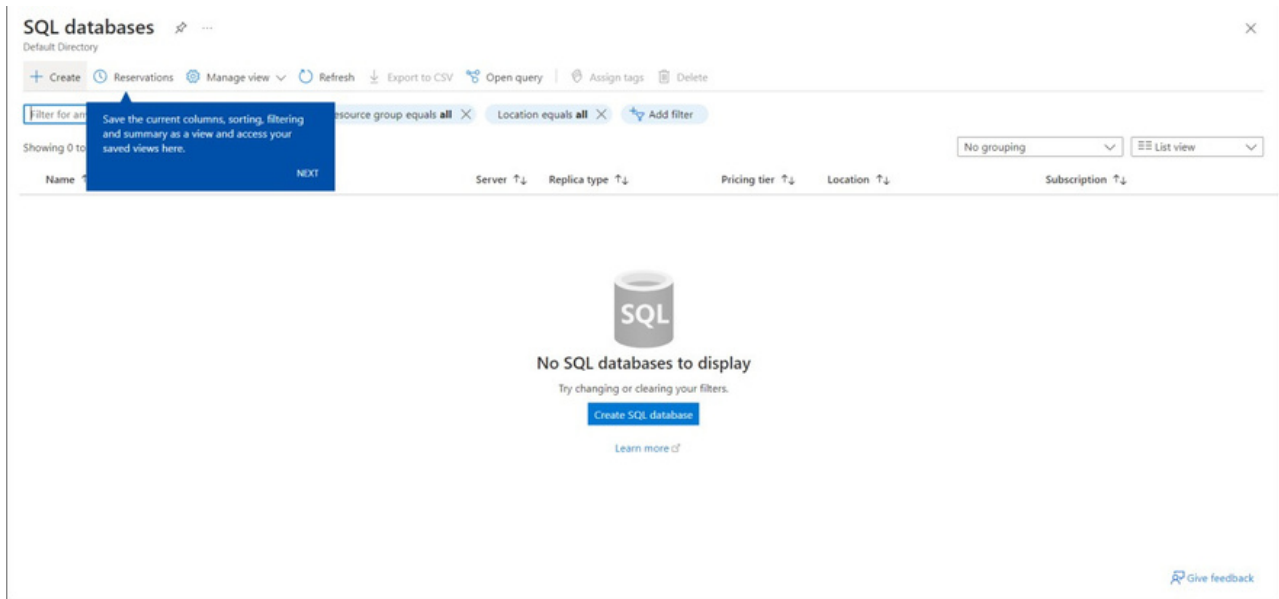


Experiment-20

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)



The screenshot shows the 'Create SQL Database' wizard in the Azure portal. The 'Basics' tab is selected, showing the 'Project details' section. The 'Subscription' is set to 'Azure for Students' and the 'Resource group' is 'Select a resource group'. The 'Database details' section is partially visible, showing the 'Database name' field with the placeholder 'Enter database name' and the 'Server' field with the placeholder 'Select a server'. A red error message is displayed below the 'Server' field: 'The value must not be empty.' The 'Review + create' button is at the bottom left, and the 'Next: Networking >' button is at the bottom right.

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 *

hinata

Server *

(new) Juffyzoro (Central India)

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

1 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

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 'Juffyzoro' 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 >

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 SECOND ¹	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](#)

2

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

< Previous

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 SECOND	0.012520 INR

NOTES

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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

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

< Previous

Next : Tags >

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 SECOND	0.012520 INR

NOTES

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3

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	Value	Resource
Isn	28	2 selected
	28	2 selected

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 SECOND 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](#)

Review + create

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Next : Review + create >

Create SQL Database

Microsoft

Basics

Networking

Security

Additional settings

Tags

Review + create

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 (x) 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) huffyzero
Authentication method	Microsoft Entra-only authentication
Microsoft Entra Admin	Azure Advisor

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 SECOND 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](#)

Create

< Previous

[Download a template for automation](#)

Microsoft.SQLDatabase.newDatabaseNewServer_b5daa315fa33418fa1648 | Overview

Deployment

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_b5d...

Start time : 10/19/2023, 9:24:49 AM

Subscription : Azure for Students

Correlation ID : cbf26532-cc78-4377-94cf-d8ec298d666

Resource group : prasad

Deployment details

Resource	Type	Status	Operation details
luffy2010	SQL server	Accepted	Operation details

Give feedback

Tell us about your experience with deployment

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Microsoft.SQLDatabase.newDatabaseNewServer_b5daa315fa33418fa1648 | Overview

Deployment

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_b5d...

Start time : 10/19/2023, 9:24:49 AM

Subscription : Azure for Students

Correlation ID : cbf26532-cc78-4377-94cf-d8ec298d666

Resource group : prasad

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment successful

Deployment "Microsoft.SQLDatabase.newDatabaseNewServer_b5da... to resource group 'prasad' was successful.

Go to resource Pin to dashboard

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

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