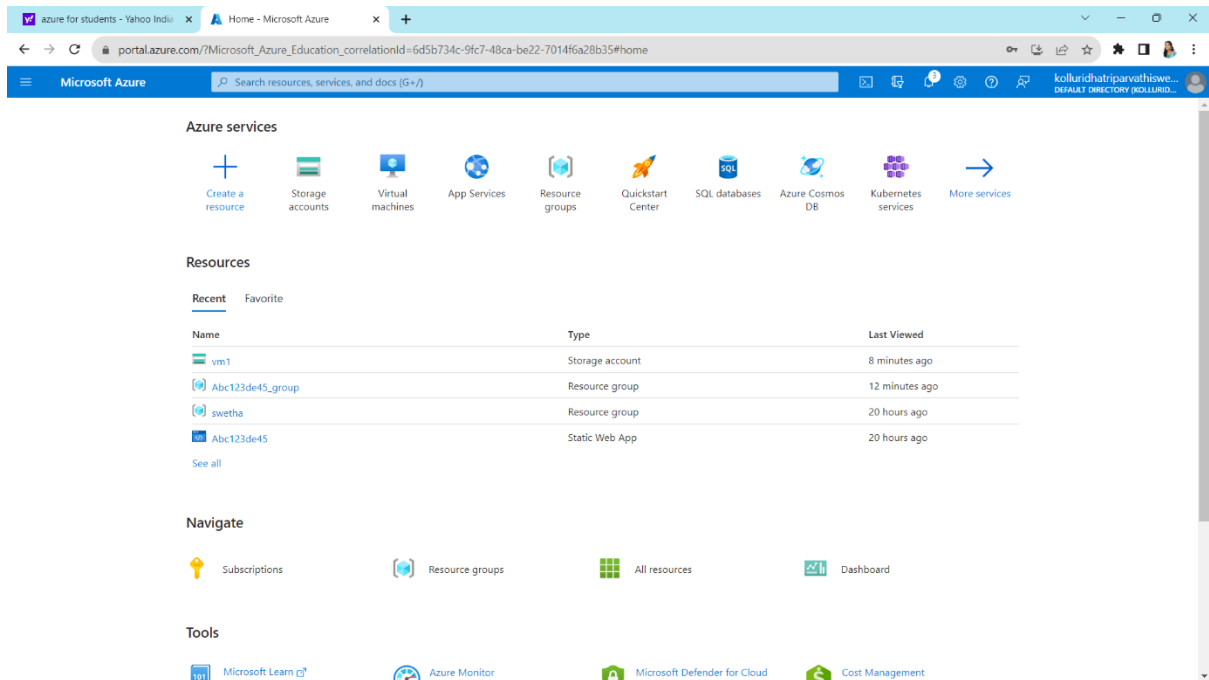


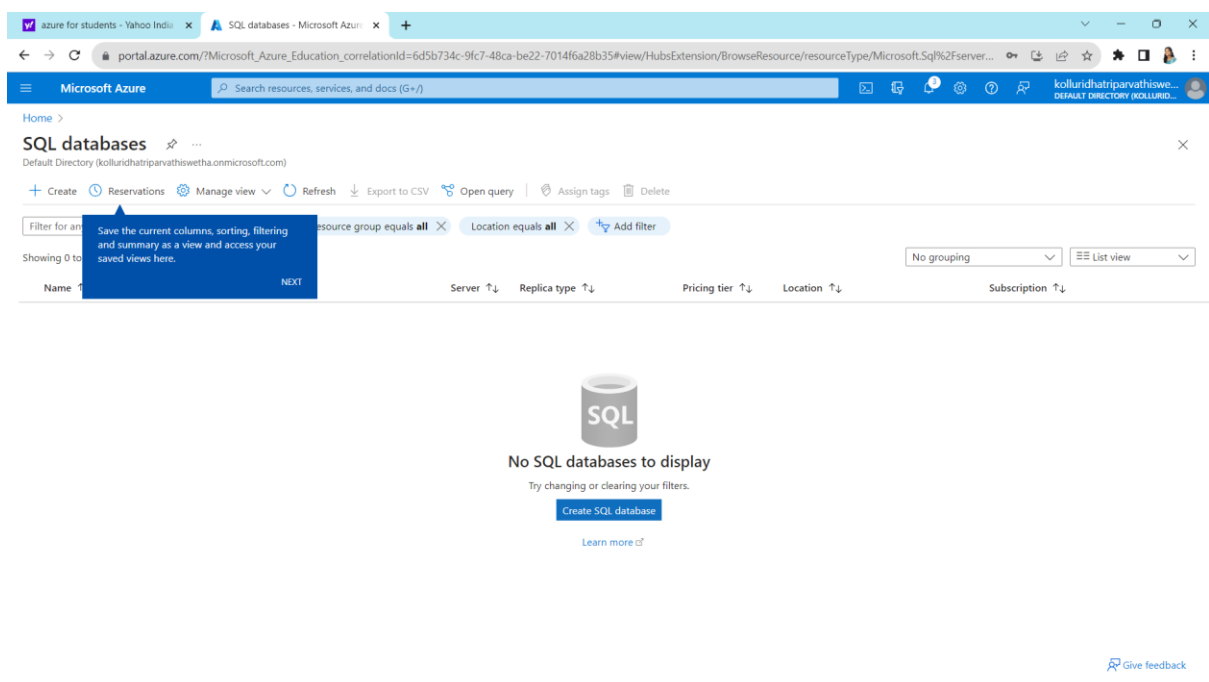
EXPERIMENT 19

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)

Click on SQL databases



Click on create



Fill the requirements and choose any id

The screenshot shows the 'Microsoft Entra ID' selection screen in the Azure portal. On the left, the 'Create SQL Database Server' form is partially visible, showing fields for 'Server name' (swetha) and 'Location' ((US) East US). The main area displays a list of enterprise applications. The 'Azure Advisor' application is selected, indicated by a blue checkmark. The 'Selected item (1)' panel on the right shows the 'Azure Advisor' application with its ID: c39c9bac-9d1f-4dfb-aa29-27f6365e5cb7. The bottom of the screen has 'OK' and 'Select' buttons.

Name	Type	Details
AAD Request Verification Service...	Enterprise ap...	c728155f-7b2a-4502-a08b-b8a9b269319
AzNet Security Guard	Enterprise ap...	38808189-fa7a-4d8a-807f-eba01edacca6
Azure Advisor	Enterprise ap...	c39c9bac-9d1f-4dfb-aa29-27f6365e5cb7
Azure Bastion	Enterprise ap...	79d7fb34-4bef-4417-8184-f713af7a679
Azure Compute	Enterprise ap...	579d9c9d-4c83-4efc-8124-7eba65ed3356
Azure Data Warehouse Polybase	Enterprise ap...	0130cc9f-7ac5-4026-bd5f-80a08a54e6d9
Azure DNS	Enterprise ap...	19947cfd-0303-466c-ac3c-fcc19a7a1570

Click on next

The screenshot shows the 'Create SQL Database' configuration page. The 'Production' workload is selected. The 'Compute + storage' section shows 'General Purpose' (Standard-series (Gen5), 2 vCores, 32 GB storage, zone redundant disabled). The 'Backup storage redundancy' section shows 'Geo-redundant backup storage' selected. A warning message states: 'Selected value for backup storage redundancy is Geo-redundant backup storage. Database backups will be geo-replicated which might impact your data residency requirements. Learn more if'. The bottom of the page has 'Review + create' and 'Next: Networking >' buttons.

Click on next

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 'swetha' 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_Gen5_2)	
Cost per vCore (in INR)	14457.70
vCores selected	x 2
Cost per GB (in INR)	9.03
Max storage selected (in GB)	x 41.6
ESTIMATED COST / MONTH	29291.10 INR

Click on next

Home > SQL databases >

Create SQL Database

Microsoft

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](#)

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

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

Click on next

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+

portal.azure.com/?Microsoft_Azure_Education_correlationId=6d5b734c-9fc7-48ca-be22-7014f6a28b35#create/Microsoft.SQLDatabase

Microsoft Azure

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

kolluridhatripavathiswe...
DEFAULT DIRECTORY (KOLLURID...

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

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)

Cost summary

General Purpose (GP_Gen5_2)

Cost per vCore (in INR)

14457.70

vCores selected

x 2

Cost per GB (in INR)

9.03

Max storage selected (in GB)

x 41.6

ESTIMATED COST / MONTH

29291.10 INR

Review + create

< Previous

Next : Tags >

Give some names and values

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+

portal.azure.com/?Microsoft_Azure_Education_correlationId=6d5b734c-9fc7-48ca-be22-7014f6a28b35#create/Microsoft.SQLDatabase

Microsoft Azure

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

kolluridhatripavathiswe...
DEFAULT DIRECTORY (KOLLURID...

Home > SQL databases >

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

big data

: 789

All resources

cloud

: 123

2 selected

:

2 selected

Cost summary

General Purpose (GP_Gen5_2)

Cost per vCore (in INR)

14457.70

vCores selected

x 2

Cost per GB (in INR)

9.03

Max storage selected (in GB)

x 41.6

ESTIMATED COST / MONTH

29291.10 INR

Review + create

< Previous

Next : Review + create >

Click on create

The screenshot shows the 'Create SQL Database' page in the Microsoft Azure portal. The 'Review + create' tab is selected, displaying a cost summary and deployment details. The cost summary indicates an estimated cost of 29291.10 INR per month. The deployment details show the subscription as 'Azure for Students', the resource group as 'swetha', and the region as 'East US'. The database name is 'swetha', and the server is '(new) swetha'. The authentication method is 'Microsoft Entra-only authentication', and the Microsoft Entra Admin is 'Azure Advisor'.

Product details

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

Estimated cost per month
29291.10 INR

Cost summary

General Purpose (GP_Gen5_2)	
Cost per vCore (in INR)	14457.70
vCores selected	x 2
Cost per GB (in INR)	9.03
Max storage selected (in GB)	x 41.6
ESTIMATED COST / MONTH	29291.10 INR

Basics

Subscription	Azure for Students
Resource group	swetha
Region	East US
Database name	swetha
Server	(new) swetha
Authentication method	Microsoft Entra-only authentication
Microsoft Entra Admin	Azure Advisor

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

Successfully Created a SQL storage service

The screenshot shows the 'Overview' page for the newly created SQL database. The deployment is complete, and the page provides next steps and links to related services.

Microsoft.SQLDatabase.newDatabaseNewServer_8d977a93915147208e43d | Overview

Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_8d9... Start time : 10/19/2023, 9:22:58 AM
Subscription : Azure for Students Correlation ID : 12aa30e2-8c2a-4937-87d7-70ed8e526945
Resource group : swetha

Deployment details

Next steps

[Go to resource](#)

Give feedback

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

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.
[Set up cost alerts >](#)

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