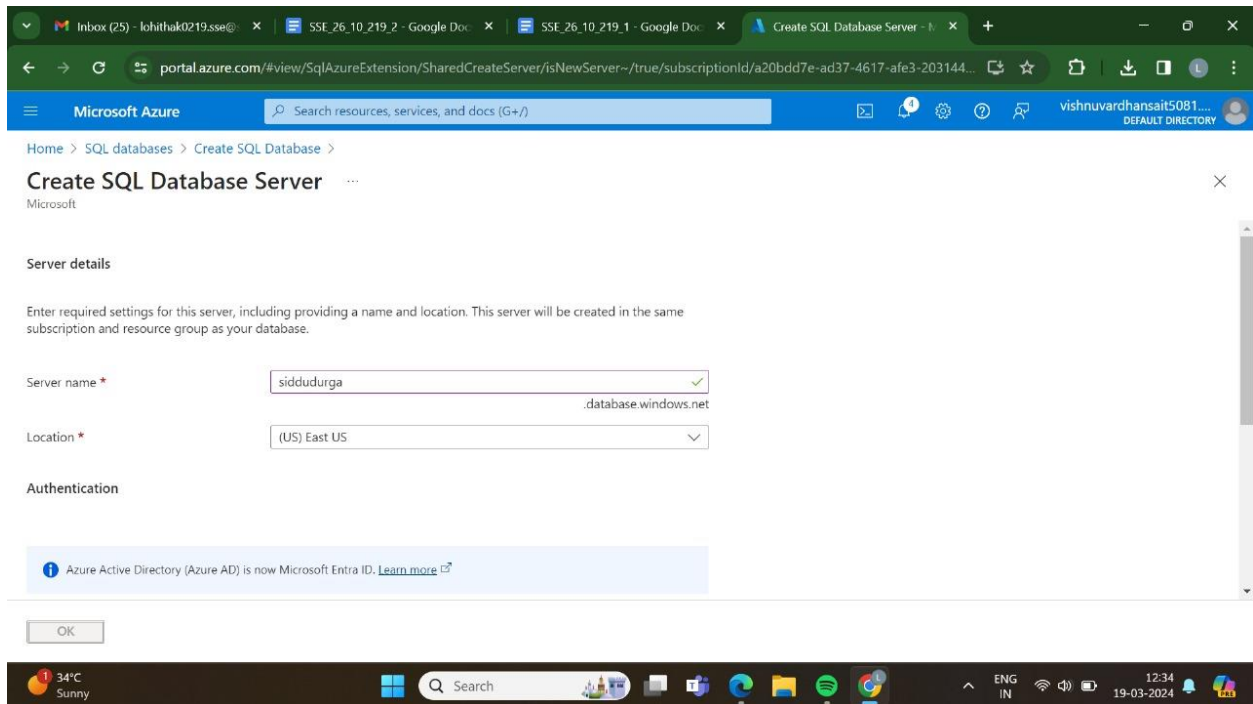


EXPERIMENT:21:

Aim: To 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).

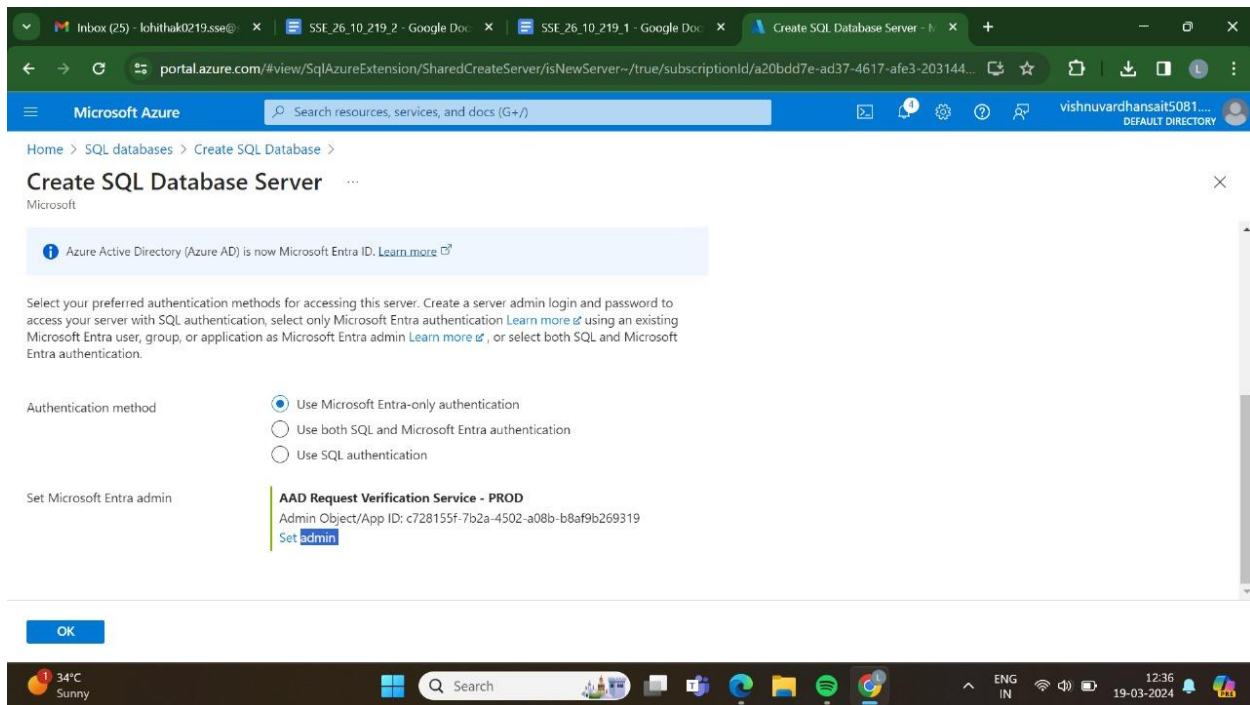
Implementation:

STEP:1: CRAETE A SQL DATA BASE SERVER.

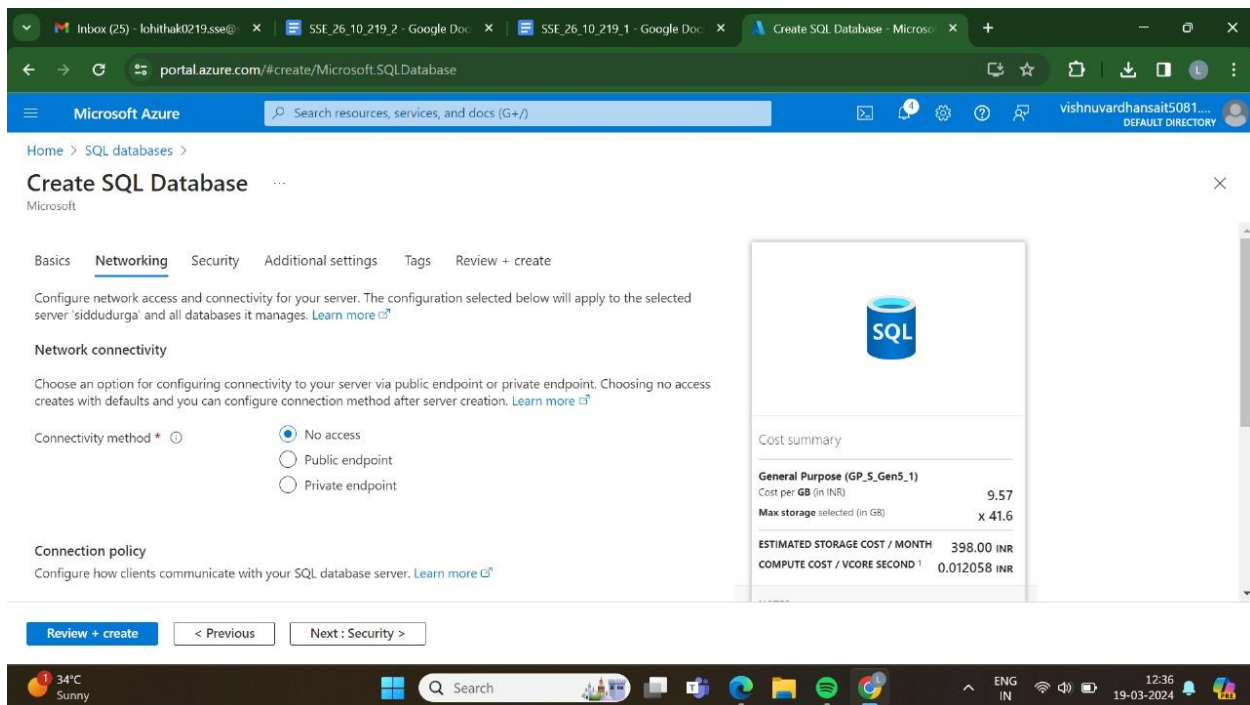


The screenshot displays the Microsoft Azure portal interface for creating a new SQL Database Server. The browser address bar shows the URL: `portal.azure.com/#view/SqlAzureExtension/SharedCreateServer/isNewServer~/true/subscriptionId/a20bdd7e-ad37-4617-afe3-203144...`. The page title is "Create SQL Database Server" by Microsoft. Under the "Server details" section, the "Server name" field contains "siddudurga" with a green checkmark, and the "Location" dropdown is set to "(US) East US". A note indicates that the server will be created in the same subscription and resource group as the database. The "Authentication" section is partially visible, showing a message about Azure Active Directory (Azure AD) being now Microsoft Entra ID. An "OK" button is located at the bottom of the form.

STEP:2:AND,THEN GO FOR THE BASICS.



STEP:3:AND ,THEN GO FOR THE NETWORKING.



STEP:4:AND,THEN GO FOR THE SECURITY.

Microsoft Azure portal showing the 'Create SQL Database' wizard. The 'Security' tab is selected, showing options for Microsoft Defender for SQL and Ledger. The 'Cost summary' panel on the right displays pricing details for the General Purpose (GP_S_Gen5_1) database.

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 1247.9202 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**

Cost summary

General Purpose (GP_S_Gen5_1)	
Cost per GB (in INR)	9.57
Max storage selected (in GB)	x 41.6
ESTIMATED STORAGE COST / MONTH	398.00 INR
COMPUTE COST / VCORE SECOND	0.012058 INR

Buttons: Review + create, < Previous, Next: Additional settings >

STEP:5:: AND,THEN GO FOR THE ATTIDIONAL SETTINGS.

Microsoft Azure portal showing the 'Create SQL Database' wizard. The 'Additional settings' tab is selected, showing options for Data source and Database collation. The 'Cost summary' panel on the right displays pricing details for the General Purpose (GP_S_Gen5_1) database.

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 * [Find a collation](#)

Cost summary

General Purpose (GP_S_Gen5_1)	
Cost per GB (in INR)	9.57
Max storage selected (in GB)	x 41.6
ESTIMATED STORAGE COST / MONTH	398.00 INR
COMPUTE COST / VCORE SECOND	0.012058 INR

Buttons: Review + create, < Previous, Next: Tags >

STEP:6:: AND,THEN GO FOR THE TAGS.

Microsoft Azure

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
durga	45	All resources
siddu	56	2 selected
		2 selected

Cost summary

General Purpose (GP_5_Gen5_1)
 Cost per GB (in INR) 9.57
 Max storage selected (in GB) x 41.6
ESTIMATED STORAGE COST / MONTH 398.00 INR
COMPUTE COST / VCORE SECOND 0.012058 INR

Review + create < Previous Next: Review + create >

34°C Sunny

STEP:7:AND,THEN GO FOR THE REVIEW +CRAETE AND CLICK CREATE.

Microsoft Azure

Home > SQL databases >

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 398.00 INR / month + Compute cost 0.012058 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](#).

Cost summary

General Purpose (GP_5_Gen5_1)
 Cost per GB (in INR) 9.57
 Max storage selected (in GB) x 41.6
ESTIMATED STORAGE COST / MONTH 398.00 INR
COMPUTE COST / VCORE SECOND 0.012058 INR

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

34°C Sunny

STEP:8: AND THEN GO FOR THE CREATE.

Microsoft Azure

Home > SQL databases >

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 398.00 INR / month + Compute cost 0.012058 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](#).

Cost summary

General Purpose (GP_S_Gen5_1)	
Cost per GB (in INR)	9.57
Max storage selected (in GB)	x 41.6
ESTIMATED STORAGE COST / MONTH	398.00 INR
COMPUTE COST / VCORE SECOND	0.012058 INR

Create < Previous Download a template for automation

STEP:9:DEPLOYMENT IS IN PROGRESS.

Microsoft Azure

Home >

Microsoft.SQLDatabase.newDatabaseNewServer_804491e997bd43d59c249 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Deployment is in progress

Deployment name : Microsoft.SQLDatabase.newD... Start time : 3/19/2024, 12:37:58 PM
 Subscription : Azure for Students Correlation ID : a96e414f-7faa-4665-9ebf-8cb...
 Resource group : rg

Deployment details

Resource	Type	Status	Operat
There are no resources to display.			

Give feedback
 Tell us about your experience with deployment

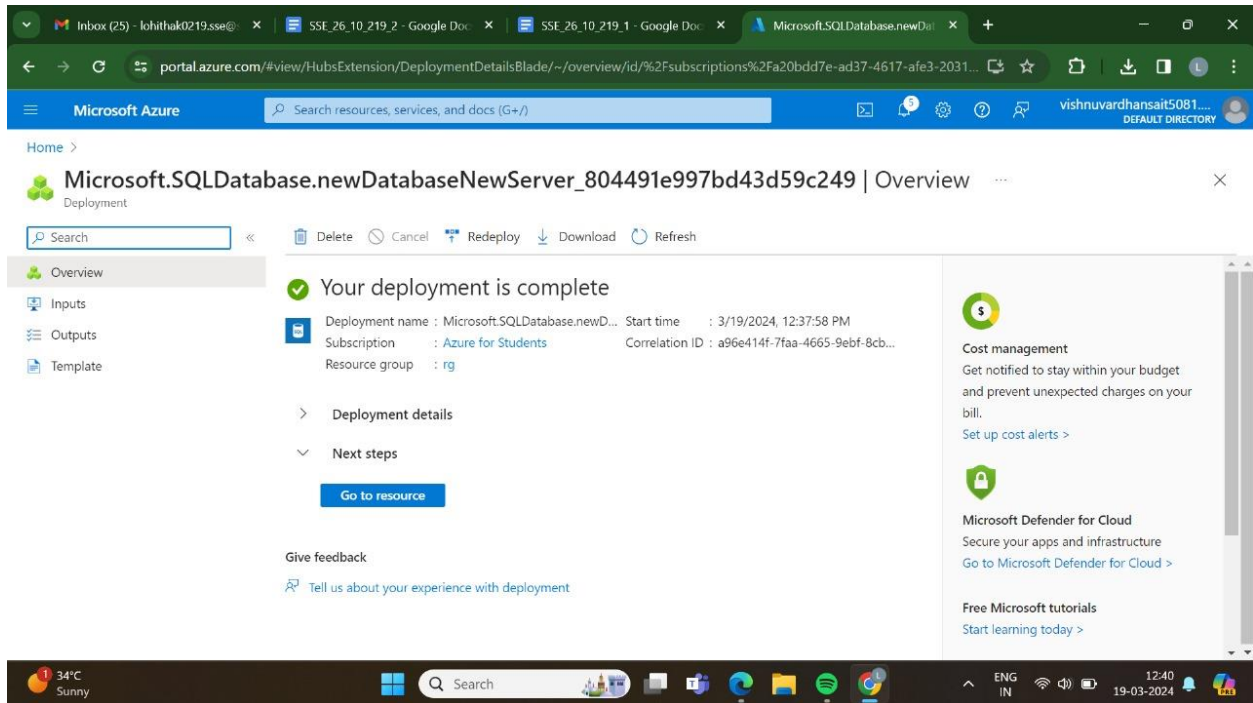
Deployment in progress...
 Deployment to resource group 'rg' is in progress.

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

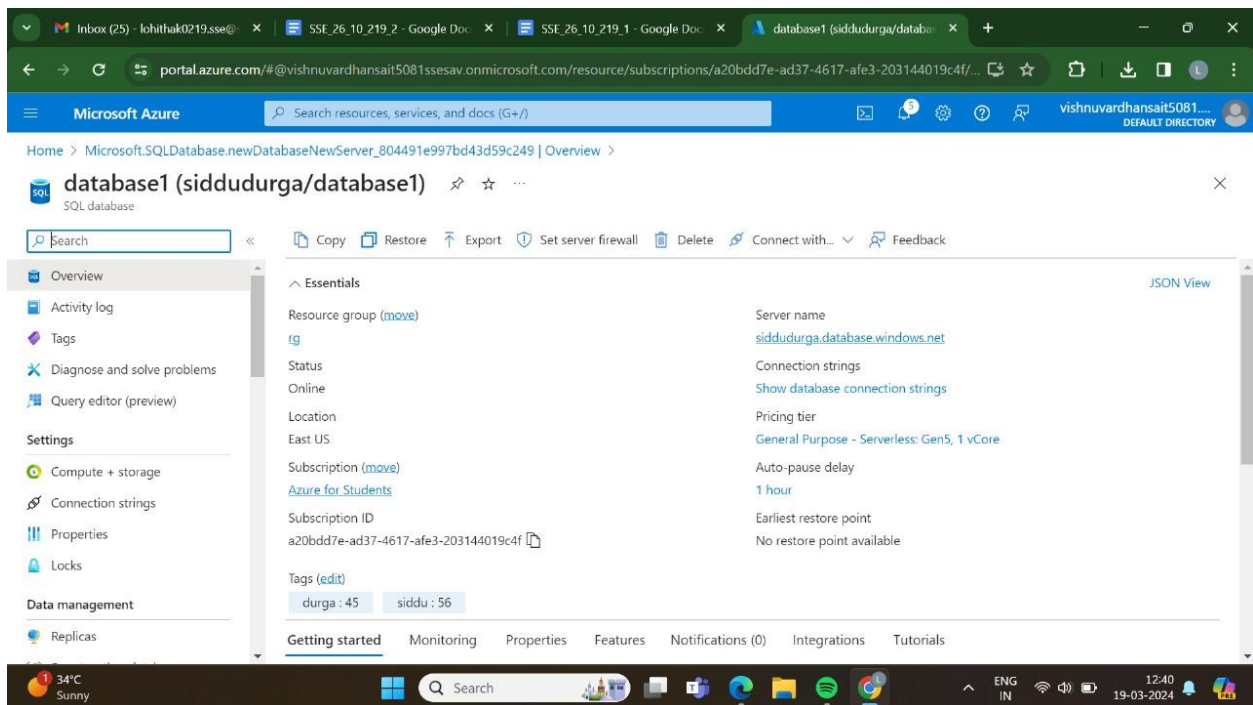
Free Microsoft tutorials
[Start learning today >](#)

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 >](#)

STEP:10:THE DEPLOYMENT HAS BEEN DONE SUCCESSFULLY.



STEP:11:HERE,IS THE OUTPUT FOR THE SQL DATABASE SERVER.



RESULT:THUS,THE PROGRAM HAS BEEN EXCEUTED SUCCESSFULLY.