

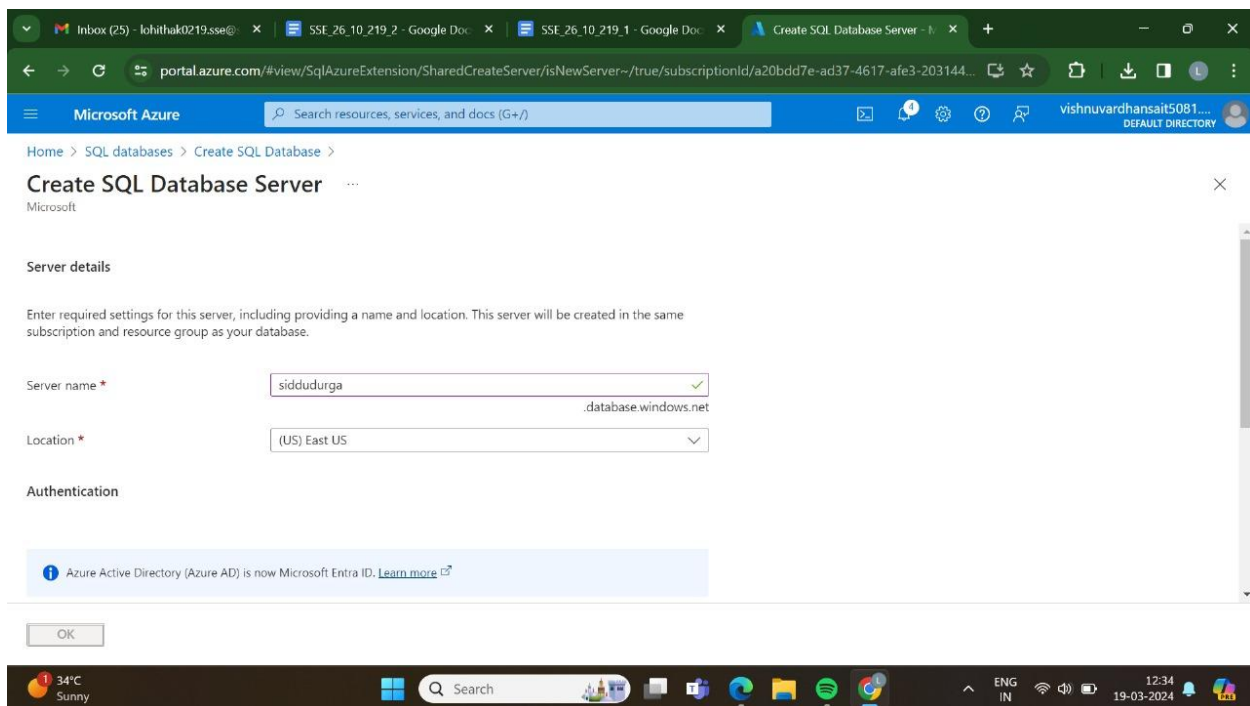
# CSA1523- CLOUD COMPUTING AND BIG DATA ANALYTICS FOR HEALTHCARE INDUSTRIES

GIRIJA B

192311044

## 20. To Database as a Service (DaaS) create and configure a new VM Image in any Public Cloud Service Provider

Implementation:STEP:1: CRAETE A DATA BASE SERVER.



The screenshot shows the Microsoft Azure portal interface for creating a new SQL Database Server. The browser tabs at the top include 'Inbox (25) - lohitak0219.sse@...', 'SSE\_26\_10\_219\_2 - Google Doc...', 'SSE\_26\_10\_219\_1 - Google Doc...', and 'Create SQL Database Server - ...'. The address bar shows the URL 'portal.azure.com/#view/SqlAzureExtension/SharedCreateServer/isNewServer~/true/subscriptionId/a20bdd7e-ad37-4617-afe3-203144...'. The Microsoft Azure header is visible with a search bar and user profile 'vishnuvardhansait5081...'. The breadcrumb trail is 'Home > SQL databases > Create SQL Database >'. The main heading is 'Create SQL Database Server' with a close button. Below it, the 'Server details' section is active, with instructions: 'Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.' The 'Server name' field contains 'siddudurga' with a green checkmark and '.database.windows.net' below it. The 'Location' dropdown is set to '(US) East US'. The 'Authentication' section is partially visible below, showing a message: 'Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)'.

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

Microsoft Azure portal showing the "Create SQL Database Server" configuration page. The page is titled "Create SQL Database Server" and includes a notification about Azure Active Directory (Azure AD) being renamed to Microsoft Entra ID. The configuration options are as follows:

- Authentication method:**
  - ☒ Use Microsoft Entra-only authentication
  - ☐ Use both SQL and Microsoft Entra authentication
  - ☐ Use SQL authentication
- Set Microsoft Entra admin:**
  - AAD Request Verification Service - PROD**
  - Admin Object/App ID: c728155f-7b2a-4502-a08b-b8af9b269319
  - Set admin

The "OK" button is visible at the bottom of the configuration section.

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

Microsoft Azure portal showing the "Create SQL Database" configuration page, specifically the "Networking" tab. The page is titled "Create SQL Database" and includes a "Cost summary" section on the right.

**Networking configuration:**

- 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.
- Connectivity method:**
  - ☒ No access
  - ☐ Public endpoint
  - ☐ Private endpoint
- Connection policy:** Configure how clients communicate with your SQL database server.

**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

The "Review + create" button is visible at the bottom of the configuration section.

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

The screenshot shows the 'Create SQL Database' page in the Microsoft Azure portal, specifically the 'Security' tab. The page is titled 'Create SQL Database' and includes a sub-header 'Microsoft Defender for SQL'. Below this, there is a description: 'Protect your data using Microsoft Defender for SQL, a unified security package including vulnerability assessment and advanced threat protection for your server. [Learn more](#)'. A note states: 'Get started with a 30 day free trial period, and then 1247.9202 INR/server/month.' There are two radio buttons for 'Enable Microsoft Defender for SQL': 'Start free trial' (selected) and 'Not now'. Below this, there is a section for 'Ledger' with a description: 'Ledger cryptographically verifies the integrity of your data and detects any tampering that might have occurred. [Learn more](#)'. The 'Ledger' section is marked as 'Not configured'. On the right side, there is a 'Cost summary' box showing the following details: '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', and 'COMPUTE COST / VCORE SECOND 0.012058 INR'. At the bottom, there are three buttons: 'Review + create', '< Previous', and 'Next: Additional settings >'. The Windows taskbar at the bottom shows the date as 19-03-2024 and the time as 12:36.

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

The screenshot shows the 'Create SQL Database' page in the Microsoft Azure portal, specifically the 'Additional settings' tab. The page is titled 'Create SQL Database' and includes a sub-header 'Customize additional configuration parameters including collation & sample data.' Below this, there is a section for 'Data source' with a description: 'Start with a blank database, restore from a backup or select sample data to populate your new database.' There are three radio buttons for 'Use existing data \*': 'None' (selected), 'Backup', and 'Sample'. Below this, there is a section for 'Database collation' with a description: '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](#)'. There is a text input field for 'Collation \*' with the value 'SQL\_Latin1\_General\_CP1\_CI\_AS' and a link 'Find a collation'. On the right side, there is a 'Cost summary' box showing the following details: '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', and 'COMPUTE COST / VCORE SECOND 0.012058 INR'. At the bottom, there are three buttons: 'Review + create', '< Previous', and 'Next: Tags >'. The Windows taskbar at the bottom shows the date as 19-03-2024 and the time as 12:37.

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

Microsoft Azure portal interface showing the "Create SQL Database" wizard. The "Tags" tab is active, displaying a table for tagging resources:

Name	Value	Resource
durga	45	All resources
siddu	56	2 selected
		2 selected

Below the table, there are buttons: "Review + create", "< Previous", and "Next: Review + create >".

On the right, a "Cost summary" box shows estimated costs:

- 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

The Windows taskbar at the bottom shows the date as 19-03-2024 and time as 12:37.

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

Microsoft Azure portal interface showing the "Create SQL Database" wizard. The "Review + create" tab is active, displaying the "Product details" and "Terms" sections.

**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](#).

At the bottom, there are buttons: "Create", "< Previous", and "Download a template for automation".

On the right, the "Cost summary" box is identical to the one in the previous screenshot.

The Windows taskbar at the bottom shows the date as 19-03-2024 and time as 12:37.

STEP:8: AND THEN GO FOR THE CREATE.

Microsoft Azure portal showing the "Create SQL Database" wizard. The "Review + create" tab is selected. The "Estimated cost" section shows a storage cost of 398.00 INR / month and a compute cost of 0.012058 INR / vCore second. The "Cost summary" table is as follows:

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

The "Create" button is visible at the bottom left of the wizard.

STEP:9:DEPLOYMENT IS IN PROGRESS.

Microsoft Azure portal showing the "Deployment is in progress" status for the resource "Microsoft.SQLDatabase.newDatabaseNewServer\_804491e997bd43d59c249". The deployment details are as follows:

Resource	Type	Status	Operat
There are no resources to display.			

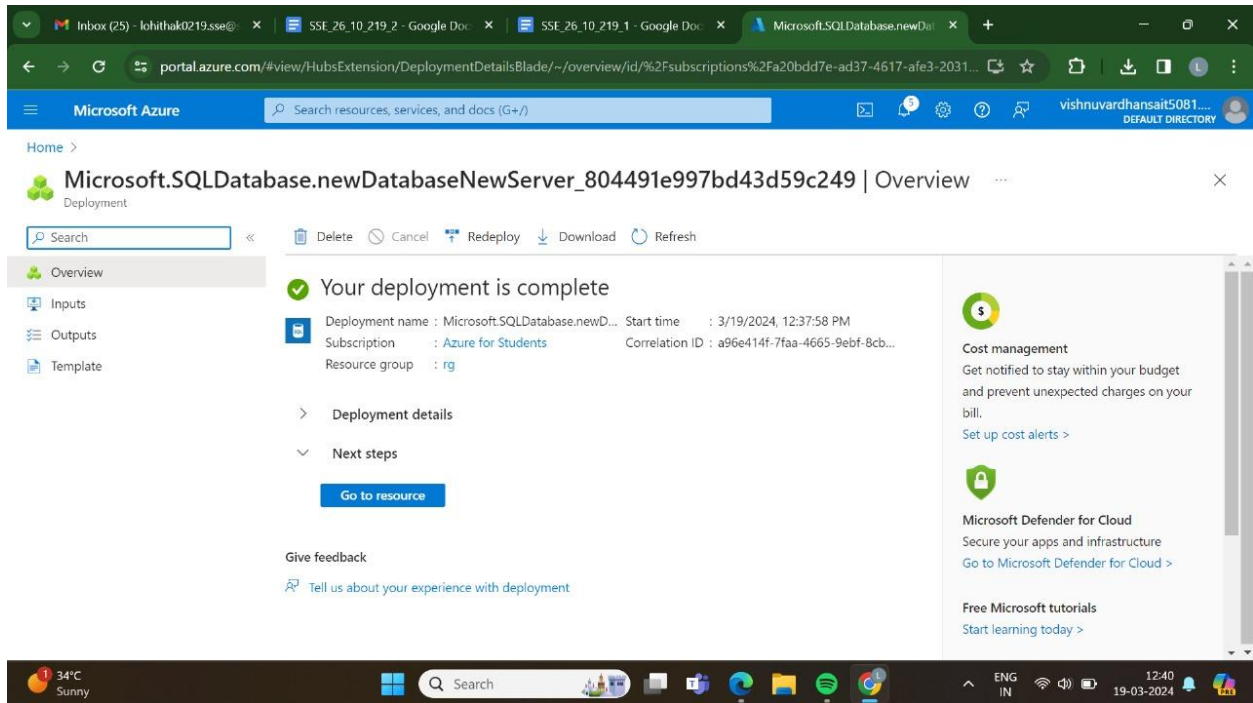
The deployment details section shows the following information:

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

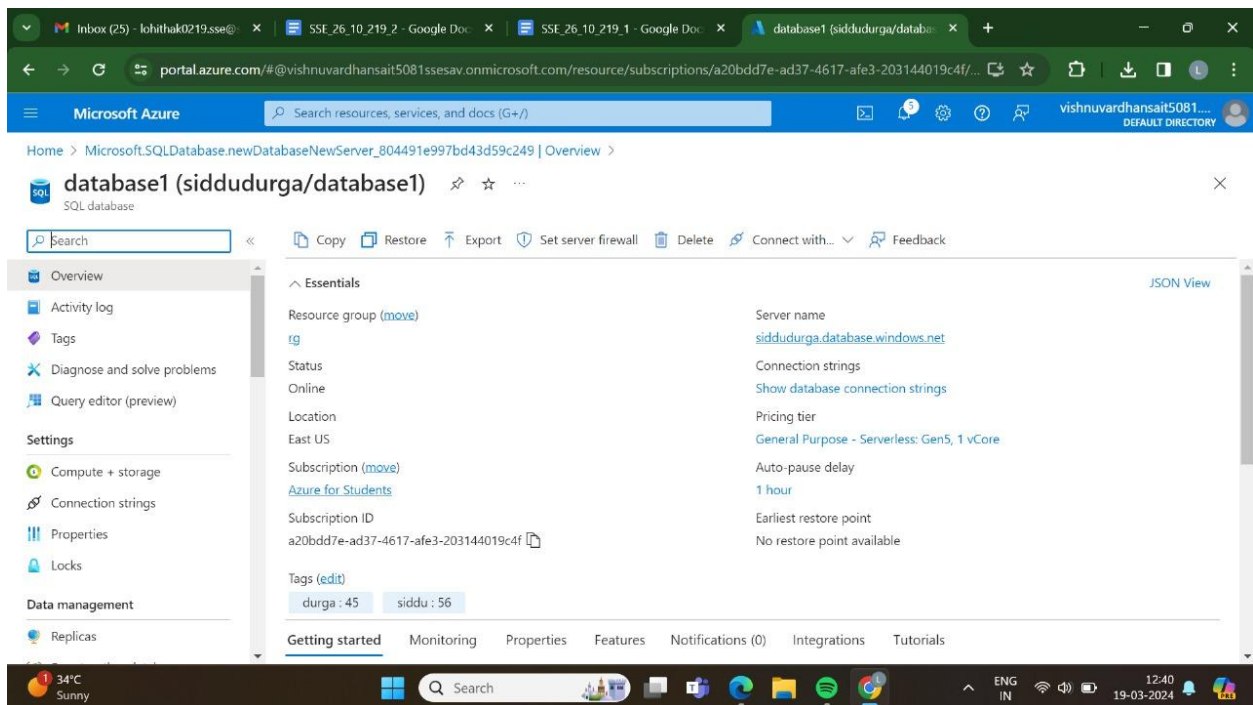
The "Deployment details" section is expanded, showing the "Resource" column header. The "Status" column header is also visible. The "Operat" column header is partially visible.

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.