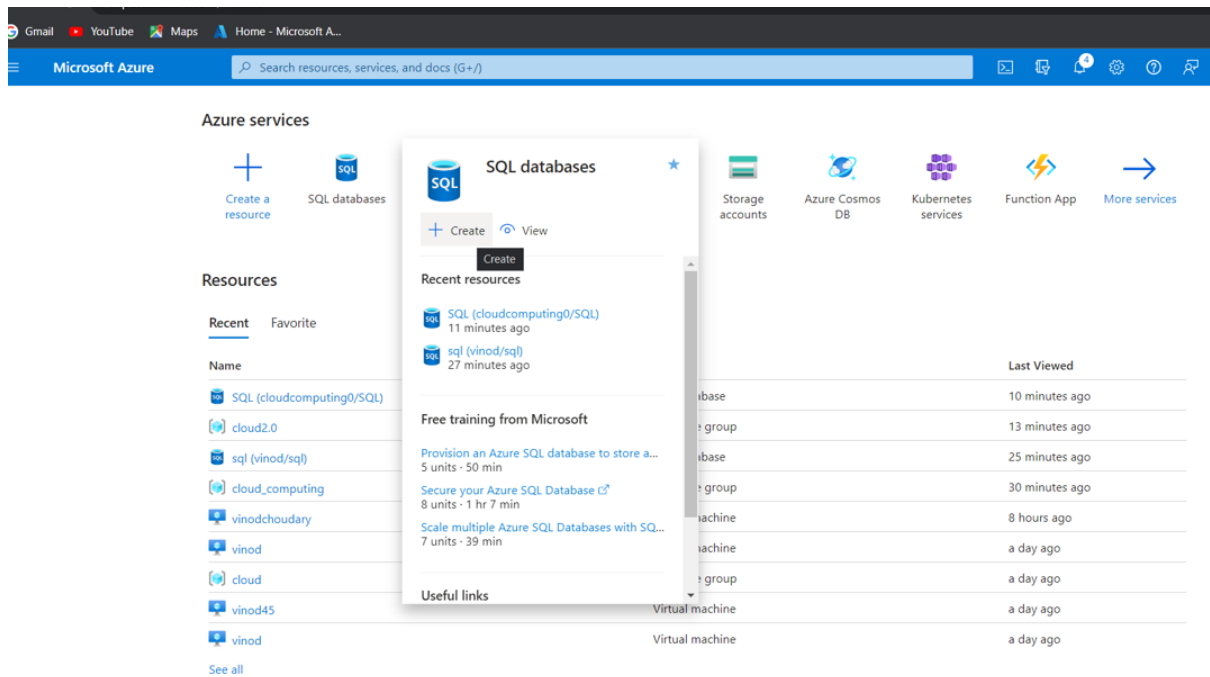


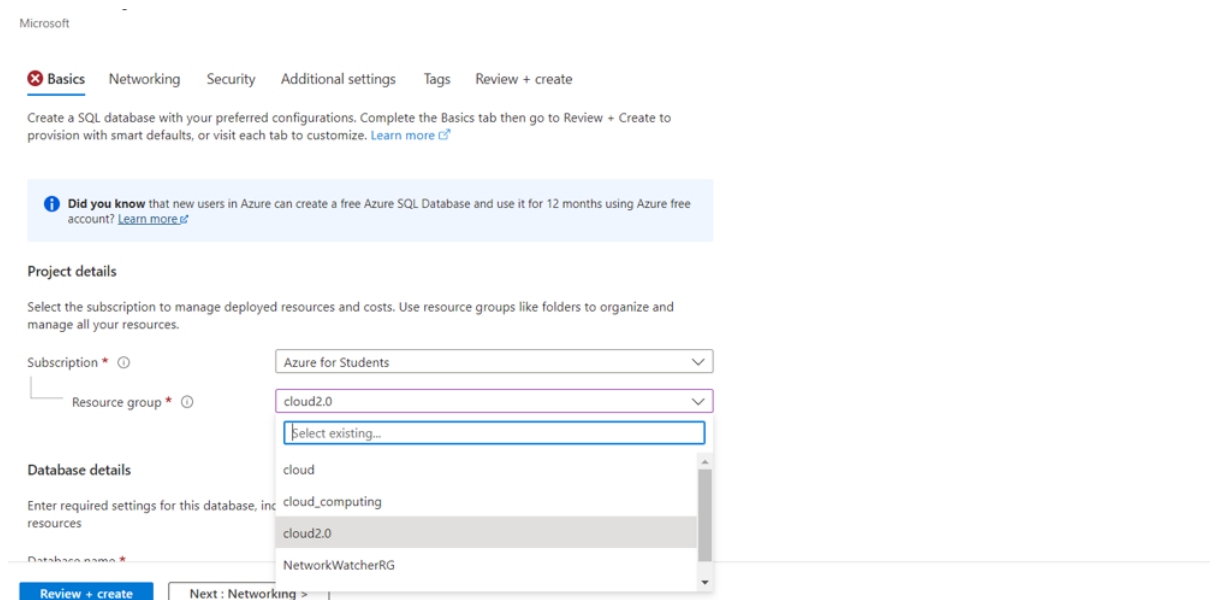
# CLOUD COMPUTING

## EXPERIMENT-20

### STEP-1



### STEP-2



### STEP-3

Microsoft Azure

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

Home > SQL databases >

## Create SQL Database

Microsoft

Resource group \*

cloud2.0

Create new

### Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \*

SQL DATABASES

Database name should not match special patterns.

The value has a length of at most 128.

Database name should not contain reserved words

No database with the same name exists in the server

Server \*

Select a server

Create new

The value must not be empty.

Want to use SQL elastic pool?

☐ Yes
☒ No

Compute + storage \*

Please select a server first.

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.

## STEP-4

Microsoft Azure

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

Home > SQL databases > Create SQL Database >

## Create SQL Database Server

Microsoft

### Server details

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.

Server name \*

cloudcomputing1

Server name should not contain reserved words.

The specified server name is available.

Your server name can't start or end with hyphens '-', nor can it have two hyphens '-' in third and fourth places of the name.

Location \*

(US) East US

### Authentication

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication [Learn more](#) or using an existing Azure AD user, group, or application as Azure AD admin [Learn more](#), or select both SQL and Azure AD authentication.

Authentication method

☒ Use only Azure Active Directory (Azure AD) authentication
☐ Use both SQL and Azure AD authentication
☐ Use SQL authentication

Set Azure AD admin \*

Not Selected

Set admin

OK

## STEP-5

Microsoft Azure

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

Home > SQL databases > Create SQL Database >

Create SQL Database Server

Microsoft

Subscription and resource group as your database.

Server name \*

cloudcomputing1

.database.windows.net

Location \*

(US) East US

Authentication

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication [Learn more](#) or using an existing Azure AD user, group, or application as Azure AD admin [Learn more](#), or select both SQL and Azure AD authentication.

Authentication method

☐ Use only Azure Active Directory (Azure AD) authentication

☐ Use both SQL and Azure AD authentication

☒ Use SQL authentication

Server admin login \*

Enter server admin login

Password \*

Confirm password \*

OK

## STEP-6

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 'cloudcomputing1' 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

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server \*

No

Yes

Add current client IP address \*

No

Yes

Review + create

< Previous

Next : Security >

## STEP-7

Microsoft Azure

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

Home > SQL databases >

Create SQL Database

Microsoft

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server \*

NoYes

Add current client IP address \*

NoYes

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

This server supports encrypted connections using Transport Layer Security (TLS). For information on TLS version and certificates, refer to connecting with TLS/SSL. [Learn more](#)

Review + create

< Previous

Next : Security >

## STEP-8

Home > SQL databases >


Create SQL Database

Microsoft

Transparent data encryption ⓘ

Service-managed key selected

[Configure transparent data encryption](#)



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 : Additional settings >

## STEP-9

Microsoft Azure

Search resources, services, and docs (G+)

[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](#)

AdventureWorksLT will be created as the sample database.

### 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

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

## STEP-10

[Home](#) > [SQL databases](#) >

## Create SQL Database

Microsoft

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	cloud2.0
Region	East US
Database name	SQL DATABASE
Server	(new) cloudcomputing1
Authentication method	SQL authentication
Server admin login	vinod2023
Compute + storage	General Purpose: Standard-series (Gen5), 2 vCores, 32 GB storage, zone redundant disabled
Backup storage redundancy	Geo-redundant backup storage

[Networking](#)

Allow Azure services and resources to access this server	Yes
Add current client IP address 157.51.67.35	No
Private endpoint	None
Minimum TLS version	1.2

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

## STEP-11

Microsoft.SQLDatabase.newDatabaseNewServer\_7b1ac88b48dd4c2c8e48a | Overview

Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer\_7b1ac88b48dd4c2c8e48a Start time: 5/11/2023, 5:00:10 PM  
Subscription: Azure for Students Correlation ID: b3c63304-27da-4a25-9328-723f07c33418  
Resource group: cloud2.0

Resource	Type	Status	Operation details
cloudcomputing1/Default	Microsoft.Sql/servers/advancedT...	Created	<a href="#">Operation details</a>
cloudcomputing1/AllowAllWindows	Microsoft.Sql/servers/firewallrules	OK	<a href="#">Operation details</a>
cloudcomputing1/SQL DATABASE	Microsoft.Sql/servers/databases	Created	<a href="#">Operation details</a>
cloudcomputing1/Default	Microsoft.Sql/servers/sqlVulnera...	Created	<a href="#">Operation details</a>
cloudcomputing1/Default	Microsoft.Sql/servers/connection...	OK	<a href="#">Operation details</a>
cloudcomputing1	Microsoft.Sql/servers	OK	<a href="#">Operation details</a>
cloudcomputing1	Microsoft.Sql/servers	Created	<a href="#">Operation details</a>

Next steps

[Go to resource](#)

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

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## STEP-12

SQL DATABASE (cloudcomputing1/SQL DATABASE)

Search

Copy Restore Export Set server firewall Delete Connect with... Feedback

Essentials

Resource group (move) : cloud2.0 Server name : cloudcomputing1.database.windows.net  
Status : Online Elastic pool : No elastic pool  
Location : East US Connection strings : [Show database connection strings](#)  
Subscription (move) : Azure for Students Pricing tier : General Purpose: Gen5, 2 vCores  
Subscription ID : 3b4fbb3b-ccc6-4257-8f12-75b8d7b2a1b9 Earliest restore point : No restore point available  
Tags (edit) : [Click here to add tags](#)

Getting started Monitoring Properties Features Notifications (1) Integrations Tutorials

Start working with your database

Connect to your database and start working with data with a few simple steps. [Learn more](#)

**Configure access**  
Configure network access to your SQL server. [Learn more](#)

**Connect to application**  
Use connection strings to connect to your SQL database from your applications and favorite tools.

**Start developing**  
Work in your database by using tool modify and query data. [Compare to tools](#)

## STEP-13 AFTER LOGIN WITH YOUR USERNAME AND PASSWORD

Search

Login + New Query Open query Feedback Getting started

SQL DATABASE (vinod2023)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Tables

- dbo.BuildVersion
- dbo.ErrorLog
- SalesLT.Address
- SalesLT.Customer
- SalesLT.CustomerAddress
- SalesLT.Product
- SalesLT.ProductCategory
- SalesLT.ProductDescription
- SalesLT.ProductModel
- SalesLT.ProductModelProductD...
- SalesLT.SalesOrderDetail
- SalesLT.SalesOrderHeader

Query 1 Query 2

Run Cancel query Save query Export data as Show only Editor

1 SELECT TOP (1000) \* FROM [dbo].[BuildVersion]

Results Messages

Search to filter items...

SystemInformationID	Database Version	VersionDate	ModifiedDate
1	10.50.91013.00	2009-10-13T00:00:00.0000000	2009-10-13T00:00:00.0000000