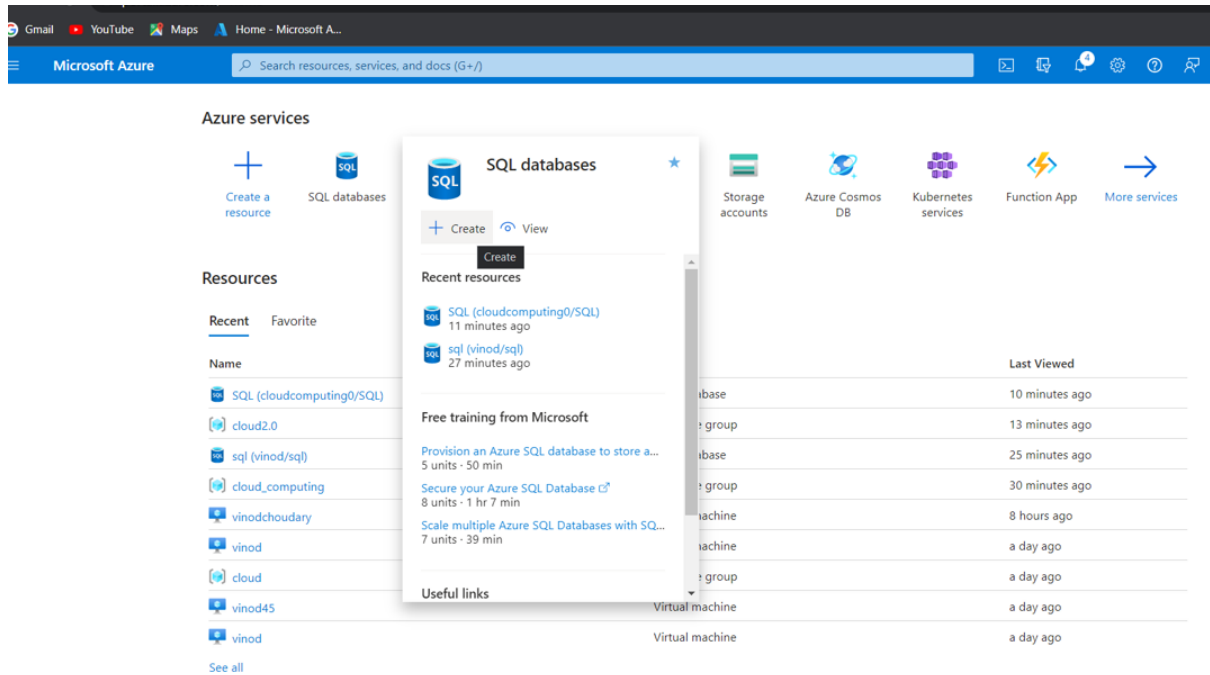


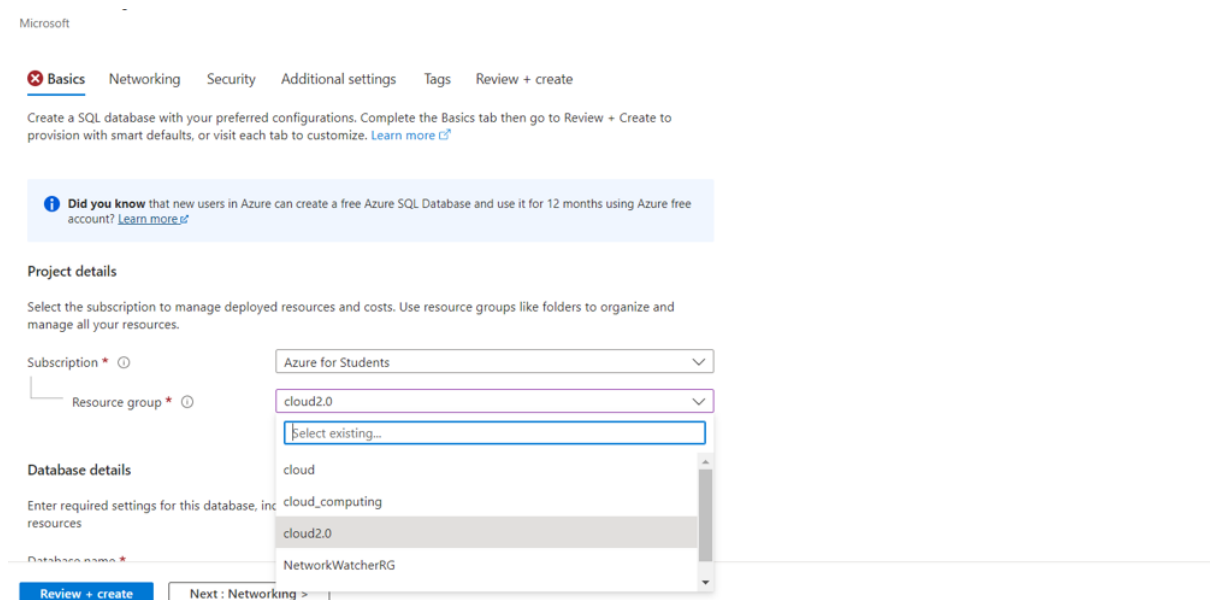
EXPERIMENT-20

Creating A SQL QUERIES IN THE CLOUD COMPUTING

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

Server *

Select a server

Create new

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.

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

The value must not be empty.

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

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

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.

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 *

No

Yes

Add current client IP address *

No

Yes

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 (TDE) is a feature that encrypts data at rest in the database. It is a security feature that helps protect your data from unauthorized access. For more information, see [Transparent data encryption \(TDE\)](#).

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

BasicsNetworkingSecurityAdditional settingsTagsReview + 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 *

NoneBackupSample

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

SQL

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

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

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

Deployment details

Resource	Type	Status	Operation details
cloudcomputing1/Default	Microsoft.Sql/servers/advancedT...	Created	Operation details
cloudcomputing1/AllowAllWindows...	Microsoft.Sql/servers/firewallrules	OK	Operation details
cloudcomputing1/SQL DATABASE	Microsoft.Sql/servers/databases	Created	Operation details
cloudcomputing1/Default	Microsoft.Sql/servers/sqlVulnera...	Created	Operation details
cloudcomputing1/Default	Microsoft.Sql/servers/connection...	OK	Operation details
cloudcomputing1	Microsoft.Sql/servers	OK	Operation details
cloudcomputing1	Microsoft.Sql/servers	Created	Operation details

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 >](#)

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-12

SQL DATABASE (cloudcomputing1/SQL DATABASE)

SQL database

Search

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

Overview Activity log Tags Diagnose and solve problems Getting started Query editor (preview)

Settings

- Compute + storage
- Connection strings
- Properties
- Locks

Data management

- Replicas
- Sync to other databases

Integrations

- Azure Synapse Link

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](#)

STEP-13 AFTER LOGIN WITH YOUR USERNAME AND PASSWORD

Search

Login + New Query Open query Feedback Getting started

Overview Activity log Tags Diagnose and solve problems Getting started Query editor (preview)

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