

## 1<sup>st</sup>: Create and Configure an Azure SQL Database:

- Create a new Azure SQL Database.
- Configure firewall rules to allow access to your database from specific IP addresses.
- Create tables, insert sample data, and run basic SQL queries
- Create Employees and Departments tables and demonstrate INNER JOIN, LEFT OUTER JOIN and RIGHT OUTER JOIN
- Configure automated backups and test restoring a database from a backup
- Set up and configure geo-replication to create readable secondary replicas in different regions.

The screenshot shows the Microsoft Azure portal with the URL [https://portal.azure.com/#create/Microsoft.SqlDatabase](#). The page title is "Create SQL Database Server". The top navigation bar includes "Microsoft Azure", "Search resources, services, and docs (G+)", and a user profile "harshagiduturi@outlook... DEFAULT DIRECTORY". The main content area is titled "Basics" and contains fields for "Subscription" (selected: "Azure Pass - Sponsorship") and "Resource group" (selected: "(View) training" or "Create new"). Below these are sections for "Project details" and "Server details", both of which are currently empty. At the bottom, there are "Review + create" and "Next : Networking >" buttons, along with a taskbar and system tray.

The screenshot shows the Microsoft Azure portal with the URL [https://portal.azure.com/#create/Microsoft.SqlDatabase](#). The page title is "Create SQL Database Server". The top navigation bar includes "Microsoft Azure", "Search resources, services, and docs (G+)", and a user profile "harshagiduturi@outlook... DEFAULT DIRECTORY". The main content area is titled "Authentication" and contains a note about Azure Active Directory being renamed to Microsoft Entra ID. It includes fields for "Authentication method" (radio buttons for "Use Microsoft Entra-only authentication", "Use both SQL and Microsoft Entra authentication", and "Use SQL authentication", with "Use SQL authentication" selected), "Server admin login" (set to "azureuser"), "Password" (set to "\*\*\*\*\*"), and "Confirm password" (set to "\*\*\*\*\*"). A validation message "Password and confirm password must match" is displayed next to the "Confirm password" field. At the bottom, there are "Review + create" and "Next : Networking >" buttons, along with a taskbar and system tray.

Microsoft Azure

Home > training > training-micron >

## Create SQL Database ...

Basics Networking Security Additional settings Tags Review + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

Want to try Azure SQL Database for free? Create a free serverless database with the first 100,000 vCore seconds, 32GB of data, and 32GB of backup storage free per month for the lifetime of the subscription. [Learn more](#)

SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription: Azure Pass - Sponsorship

Resource group: training

Cost summary

General Purpose (GP Gen5 2)	22341.40
Cost per vCore (in INR)	x 2
Cost per GB (in INR)	21.80
Max storage selected (in GB)	x 41.6
ESTIMATED COST / MONTH	45589.56 INR

Apply offer (Preview)

Review + create Next: Networking >

5:15 AM 8/19/2024

Microsoft Azure

Home > Azure SQL > Select SQL deployment option >

## Create SQL Database Server ...

Basics Networking Security Additional settings Tags Review + create

Configure networking access for your server.

Firewall rules

Allow Azure services and resources to access this server: Yes

Review + create < Previous Next: Security >

5:01 AM 8/19/2024

Microsoft Azure

Home > Microsoft.SQLDatabase.newDatabaseExistingServer\_aeb70194594e4faf | Overview >

## harshadatabase (training-micron/harshadatabase)

SQL database

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

Overview Activity log Tags Diagnose and solve problems Query editor (preview) Mirror database in Fabric (preview) Settings Data management Integrations Power Platform Security Intelligent performance Monitoring Automation Help

Mirror databases in Microsoft Fabric. Easily replicate your existing databases in Fabric, and help your team achieve streamlined ETL and operational analytics goals. [Learn more](#)

Resource group (move) : training Status : Online Location : Central India Subscription (move) : Azure Pass - Sponsorship Subscription ID : 348ac279-08f0-424f-b35b-80035082612a Tags (edit) : learner:harsha

Server name : training-micron.database.windows.net Elastic pool : No elastic pool Connection strings : Show database connection strings Pricing tier : General Purpose: Gen5, 2 vCores Earliest restore point : No restore point available

Getting started Monitoring Properties Notifications (1) Integrations Tutorials

Start working with your database

Configure access Connect to application Start developing Mirror database in Fabric

Configure network access to your SQL Use connection strings to connect to your SQL Work in your database by using tools to add Replicate existing databases in Fabric, and help

Windows Firewall Internet Explorer Firefox Chrome Edge XLS WPS Office

5:20 AM 8/19/2024

Microsoft Azure

Home > Microsoft.SQLDatabase.newDatabaseExistingServer\_aeb70194594e4faf | Overview > harshadatabase (training-micron/harshadatabase) | Query editor (preview)

## harshadatabase (training-micron/harshadatabase) | Query editor (preview)

SQL database

Search Login New Query Open query Feedback Getting started

Overview Activity log Tags Diagnose and solve problems Query editor (preview) Mirror database in Fabric (preview) Settings Compute + storage Connection strings Properties Locks Data management Integrations Power Platform Security Intelligent performance Monitoring

Query editor (preview) is a tool to run SQL queries against Azure SQL Database in the Azure portal. It is designed for lightweight querying and object exploration in your database. For more information and troubleshooting, [Learn more](#)

Welcome to SQL Database Query Editor

SQL server authentication

Login \*  Continue as [harshagiduturi@outlook.com](#)

OR

Password \*

OK

Windows Firewall Internet Explorer Firefox Chrome Edge XLS WPS Office

5:21 AM 8/19/2024

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with various navigation options like Overview, Activity log, Tags, Diagnose and solve problems, and Query editor (preview). The main area is titled "harshadatabase (training-micron/harshadatabase) | Query editor (preview)". It has tabs for "Query 1", "Tables", "Views", and "Stored Procedures". Below the tabs, there are buttons for Run, Cancel query, Save query, Export data as, and Show only Editor. The results pane is currently empty, showing a search bar and a "Ready" message.

## Selecting all orders

This screenshot shows the same Azure portal setup as the previous one, but now with a query being run. The sidebar and main title are identical. In the query editor, under "Query 1", the following SQL code is entered:

```
1 SELECT * FROM Orders;
```

The results pane shows a table with four columns: OrderID, OrderDate, CustomerID, and Amount. The data is as follows:

OrderID	OrderDate	CustomerID	Amount
101	2024-08-01	1	150.00
102	2024-08-05	2	200.00
103	2024-08-10	1	300.00
104	2024-08-15	3	250.00

At the bottom of the results pane, it says "Query succeeded | 0s".

## Selecting all customers

Microsoft Azure

Home > harshadatabase (training-micron/harshadatabase)

harshadatabase (training-micron/harshadatabase) | Query editor (preview)

SQL database

Search Login New Query Open query Feedback Getting started

Query 1 X dbo.Customers X Query 2 X Query 3 X Query 4 X Query 5 X

Run Cancel query Save query Export data as Show only Editor

Tables

- dbo.BuildVersion
- dbo.Customers
- dbo.ErrorLog
- dbo.Orders
- SalesLT.Address
- SalesLT.Customer
- SalesLT.CustomerAddress
- SalesLT.Product
- SalesLT.ProductCategory
- SalesLT.ProductDescription
- SalesLT.ProductModel
- SalesLT.ProductModelProductC
- SalesLT.SalesOrderDetail
- SalesLT.SalesOrderHeader

Views

CustomerID FirstName LastName Email

1	John	Doe	john.doe@example.com
2	Jane	Smith	jane.smith@example.com
3	Michael	Johnson	michael.johnson@example.com

Join Customers and Orders to see who placed each order:

Microsoft Azure

Home > harshadatabase (training-micron/harshadatabase)

harshadatabase (training-micron/harshadatabase) | Query editor (preview)

SQL database

Search Login New Query Open query Feedback Getting started

Query 1 X dbo.Customers X Query 2 X Query 3 X Query 4 X Query 5 X

Run Cancel query Save query Export data as Show only Editor

Tables

- dbo.BuildVersion
- dbo.Customers
- dbo.ErrorLog
- dbo.Orders
- SalesLT.Address
- SalesLT.Customer
- SalesLT.CustomerAddress
- SalesLT.Product
- SalesLT.ProductCategory
- SalesLT.ProductDescription
- SalesLT.ProductModel
- SalesLT.ProductModelProductC
- SalesLT.SalesOrderDetail
- SalesLT.SalesOrderHeader

Stored Procedures

OrderID OrderDate FirstName LastName Amount

101	2024-08-01	John	Doe	150.00
102	2024-08-05	Jane	Smith	200.00
103	2024-08-10	John	Doe	300.00
104	2024-08-15	Michael	Johnson	250.00

Find total amount spent by each customer:

The screenshot shows the Microsoft Azure portal interface for a SQL database named 'harshadatabase'. The left sidebar contains navigation links for Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Mirror database in Fabric (preview), Settings, Compute + storage, Connection strings, Properties, Locks, Data management, Replicas, Sync to other databases, Integrations, and Power Platform. The main area is titled 'Query editor (preview)' and displays a query window with five tabs: Query 1 through Query 5. The current tab, Query 1, contains the following T-SQL code:

```

1 SELECT Customers.FirstName, Customers.LastName, SUM(Orders.Amount) AS TotalSpent
2 FROM Orders
3 JOIN Customers ON Orders.CustomerID = Customers.CustomerID
4 GROUP BY Customers.FirstName, Customers.LastName;

```

The results pane shows a table with three rows of data:

FirstName	LastName	TotalSpent
John	Doe	450.00
Michael	Johnson	250.00
Jane	Smith	200.00

The status bar at the bottom right indicates the time as 5:48 AM and the date as 8/19/2024.

Create Employees and Departments tables and demonstrate INNER JOIN, LEFT OUTER JOIN and RIGHT OUTER JOIN:

Create Tables as departments and employees:

The screenshot shows the Microsoft Azure portal interface for a SQL database named 'harshadatabase'. The left sidebar contains the same navigation links as the previous screenshot. The main area is titled 'Query editor (preview)' and displays a query window with six tabs: Query 1 through Query 6. The current tab, Query 6, contains the following T-SQL code for creating two tables:

```

1 CREATE TABLE Departments (
2     DepartmentID INT PRIMARY KEY,
3     DepartmentName VARCHAR(50)
4 );
5
6 CREATE TABLE Employees (
7     EmployeeID INT PRIMARY KEY,
8     FirstName VARCHAR(50),
9     LastName VARCHAR(50),

```

The status bar at the bottom right indicates the time as 5:52 AM and the date as 8/19/2024.

Insert sample data:

**Microsoft Azure**

Home > harshadatabase (training-micron/harshadatabase)

**harshadatabase (training-micron/harshadatabase) | Query editor (preview)**

SQL database

Search Login New Query Open query Feedback Getting started

Query 1 × dbo.Customers × Query 2 × Query 3 × Query 4 × Query 5 × Query 6 × Query 7 ×

Run Cancel query Save query Export data as Show only Editor

```

1 -- Insert data into Departments table
2 INSERT INTO Departments (DepartmentID, DepartmentName)
3 VALUES
4 (1, 'Human Resources'),
5 (2, 'Finance'),
6 (3, 'Engineering');
7
8 -- Insert data into Employees table
9 INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID)

```

Results Messages

Query succeeded: Affected rows: 7

5:53 AM 8/19/2024

## INNER JOIN :

**Microsoft Azure**

Home > harshadatabase (training-micron/harshadatabase)

**harshadatabase (training-micron/harshadatabase) | Query editor (preview)**

SQL database

Search Login New Query Open query Feedback Getting started

Query 1 × dbo.Customers × Query 2 × Query 3 × Query 4 × Query 5 × Query 6 × Query 7 × Query 8 ×

Run Cancel query Save query Export data as Show only Editor

```

1 SELECT Employees.EmployeeID, Employees.FirstName, Employees.LastName, Departments.DepartmentName
2 FROM Employees
3 INNER JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
4

```

Results Messages

EmployeeID	FirstName	LastName	DepartmentName
101	John	Doe	Human Resources
102	Jane	Smith	Finance
103	Michael	Johnson	Engineering

Query succeeded | 0s

5:55 AM 8/19/2024

## LEFT OUTER JOIN:

The screenshot shows the Azure Data Studio interface for a database named 'harshadatabase'. The left sidebar contains navigation links like Overview, Activity log, Tags, Diagnose and solve problems, and a prominent 'Query editor (preview)' link which is selected. The main area displays a query editor with tabs for Query 1 through Query 9. The current tab, Query 9, contains the following SQL code:

```
1 SELECT Employees.EmployeeID, Employees.FirstName, Employees.LastName, Departments.DepartmentName
2 FROM Employees
3 LEFT OUTER JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
```

Below the code, the 'Results' tab is active, showing a table with four columns: EmployeeID, FirstName, LastName, and DepartmentName. The data is as follows:

EmployeeID	FirstName	LastName	DepartmentName
101	John	Doe	Human Resources
102	Jane	Smith	Finance
103	Michael	Johnson	Engineering
104	Emily	Davis	

A status bar at the bottom indicates 'Query succeeded | 0s'.

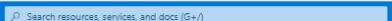
## RIGHT OUTER JOIN:

This screenshot is identical to the previous one, except the current tab is 'Query 10' in the top navigation. The SQL code for a RIGHT OUTER JOIN is:

```
1 SELECT Employees.EmployeeID, Employees.FirstName, Employees.LastName, Departments.DepartmentName
2 FROM Employees
3 RIGHT OUTER JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
```

The results table is the same, showing the four employees from the 'Employees' table along with their department names. The status bar at the bottom shows 'Query succeeded | 0s'.

portal.azure.com/#view/SqIAzureExtension/RestoreDatabaseBlade/restoreDatabaseType/Live/sourceDatabaseResourceId/%2Fsubscriptions%2F348ac...     

Microsoft Azure  harshadatabase (training-micron/harshadatabase) > training-micron | Backups >

## Create SQL Database - Restore database

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription: Azure Pass - Sponsorship  
Resource group: training

Source Details

Select a backup source and details. Additional settings will be defaulted where possible based on the backup selected.

Source Database: harshadatabase  
Select source: Point-in-time  
Earliest restore point: 2024-08-19 12:21 UTC

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



6:08 AM 8/19/2024

portal.azure.com/#view/SqIAzureExtension/RestoreDatabaseBlade/restoreDatabaseType/Live/sourceDatabaseResourceId/%2Fsubscriptions%2F348ac...   harshadatabase (training-micron/harshadatabase) > training-micron | Backups >

## Create SQL Database - Restore database

Database level key: Not configured [Configure transparent data encryption](#)

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.

The default backup storage redundancy setting is taken from the setting of the source.

Backup storage redundancy:  Geo-redundant backup storage  Locally-redundant backup storage  Zone-redundant backup storage

 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](#)

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



The screenshot shows the Microsoft Azure portal interface for a SQL database named "harshadatabase\_2024-08-19T13-08Z". The left sidebar contains navigation links for Overview, Activity log, Tags, Diagnose and solve problems, and Query editor (preview). The main area displays a "Query 1" window with a message: "Showing limited object explorer here. For full capability please click here to open Azure Data Studio." Below this are links to Tables, Views, and Stored Procedures. The bottom section shows tabs for Results and Messages, with a search bar.

This screenshot shows the same Azure portal interface as above, but with a query being run. The query is:

```
1 SELECT * FROM Orders;
```

The results pane displays the following data:

OrderID	OrderDate	CustomerID	Amount
101	2024-08-01	1	150.00
102	2024-08-05	2	200.00
103	2024-08-10	1	300.00
104	2024-08-15	3	250.00

A status message at the bottom indicates "Query succeeded | 0s".

## 2<sup>nd</sup>: Create and Configure an Azure MySQL Database:

- Create a new Azure SQL Database.
- Configure firewall rules to allow access to your database from specific IP addresses.
- Create tables, insert sample data, and run basic SQL queries

- Create Employees and Departments tables and demonstrate INNER JOIN, LEFT OUTER JOIN and RIGHT OUTER JOIN
- Configure automated backups and test restoring a database from a backup
- Set up and configure geo-replication to create readable secondary replicas in different regions.

How do you plan to use the service?

**Flexible server**

Best for production workloads that require zone resiliency, predictable performance, maximum control with IOPs scaling, custom maintenance window, cost optimization controls and simplified developer experience.

**Create**   [Learn More](#)

**Wordpress + MySQL Flexible server**

Wordpress is state of the art publishing platform with a focus on aesthetics, web standards and usability. Use this template to create Wordpress on APP Service and Azure Database for MySQL Flexible Server in a Virtual network.

**Create**   [Learn More](#)

Server details

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

Server name \*

Region \*

MySQL version \*

Workload type  For development or hobby projects

Compute + storage

Availability zone

Estimated costs

Compute Sku	INR
Standard_B1ms (1 vCore)	1487.94/month

Storage	INR
Storage selected 20 GB (INR 10.90 per GB)	20 x 10.90 = 217.98

Auto scale IOPS	INR
Auto scale IOPS is billed on usage in per million request increments. <a href="#">Learn more</a>	10.90

Backup Retention

Backup retention is billed based on additional storage used for retaining backups. [Learn more](#)

**Review + create**   [Next: Networking >](#)

**Microsoft Azure**

Home > Azure Database for MySQL servers > Select Azure Database for MySQL deployment option > Flexible server >

## Compute + storage

**Compute**

Compute resources are pre-allocated and billed per hour based on vCores configured.  
Note that high availability and read replicas is supported for only General purpose and Business critical tiers.

**Compute tier**

- Burstable (1-20 vCores) - Best for workloads that don't need the full CPU continuously
- General Purpose (2-96 vCores) - Balanced configuration for most common workloads
- Business Critical (2-96 vCores) - Best for Tier 1 workloads that require optimized performance

**Compute size**

Standard\_B2ms (2 vCores, 8 GB memory, 1700 max IOPS)

**Storage**

The storage you provision is the amount of storage capacity available to your flexible server and is billed GB/month.  
Note that storage cannot be scaled down once the server is created.

**Storage size (in GB) \***

**IOPS**  Auto scale IOPS  Pre-provisioned IOPS

**Storage Auto-growth**

**Estimated costs**

Compute Sku	INR
Standard_B2ms (2 vCores)	11903.49/month

**Storage** INR 217.98/month

Storage selected 20 GB (INR 10.90 per GB) 20 x 10.90

**Auto scale IOPS**

Auto scale IOPS is billed on usage in per million request increments. [Learn more](#)

**Backup Retention**

Backup retention is billed based on additional storage used for retaining backups. [Learn more](#)

**Bandwidth**

**Save**

Windows Start button, Taskbar icons (File Explorer, Edge, File History, Task View, Task Scheduler, Task Manager, PowerShell, Visual Studio Code, OneDrive, Microsoft Edge, Microsoft Store, Microsoft Word, Microsoft Excel), Microsoft Azure logo, Search bar, User info (harshagiduturi@outlook.com, DEFAULT DIRECTORY).

**Microsoft Azure**

Home > Azure Database for MySQL servers >

## Flexible server

**Connectivity method**

Public access (allowed IP addresses) and Private endpoint  Private access (VNet Integration)

Connections from the IP addresses configured in the Firewall rules section below will have access to this server. By default, no public IP addresses are allowed. [Learn more](#)

**Public access**

Allow public access to this resource through the internet using a public IP address

**Firewall rules**

Inbound connections from the IP addresses specified below will be allowed to port 3306 on this server. [Learn more](#)

Allow public access from any Azure service within Azure to this server

+ Add current client IP address ( 103.172.93.212 ) + Add 0.0.0.0 - 255.255.255.255

**Estimated costs**

Compute Sku	INR
Standard_B1ms (1 vCore)	1487.94/month

**Storage** INR 217.98/month

Storage selected 20 GB (INR 10.90 per GB) 20 x 10.90

**Auto scale IOPS**

Auto scale IOPS is billed on usage in per million request increments. [Learn more](#)

**Backup Retention**

Backup retention is billed based on additional storage used for retaining backups. [Learn more](#)

**Review + create** < Previous Next : Security >

10:17 AM

Microsoft Azure Search resources, services, and docs (G+)

Home > Azure Database for MySQL servers > Select Azure Database for MySQL deployment option >

## Flexible server

Microsoft

Basics Networking Security Tags Review + create

**Creation time**

Estimated Server Creation Time (in minutes) 5

**Product details**

Azure Database for MySQL by Microsoft

[Terms of use](#) | [Privacy policy](#)

**Basics (Change)**

Subscription	Azure Pass - Sponsorship
Resource group	mysql
Server name	harshaserver
Server admin login name	azureuser
Location	Central India
Availability zone	No preference
High availability	Not Enabled
MySQL version	8.0

**Estimated costs**

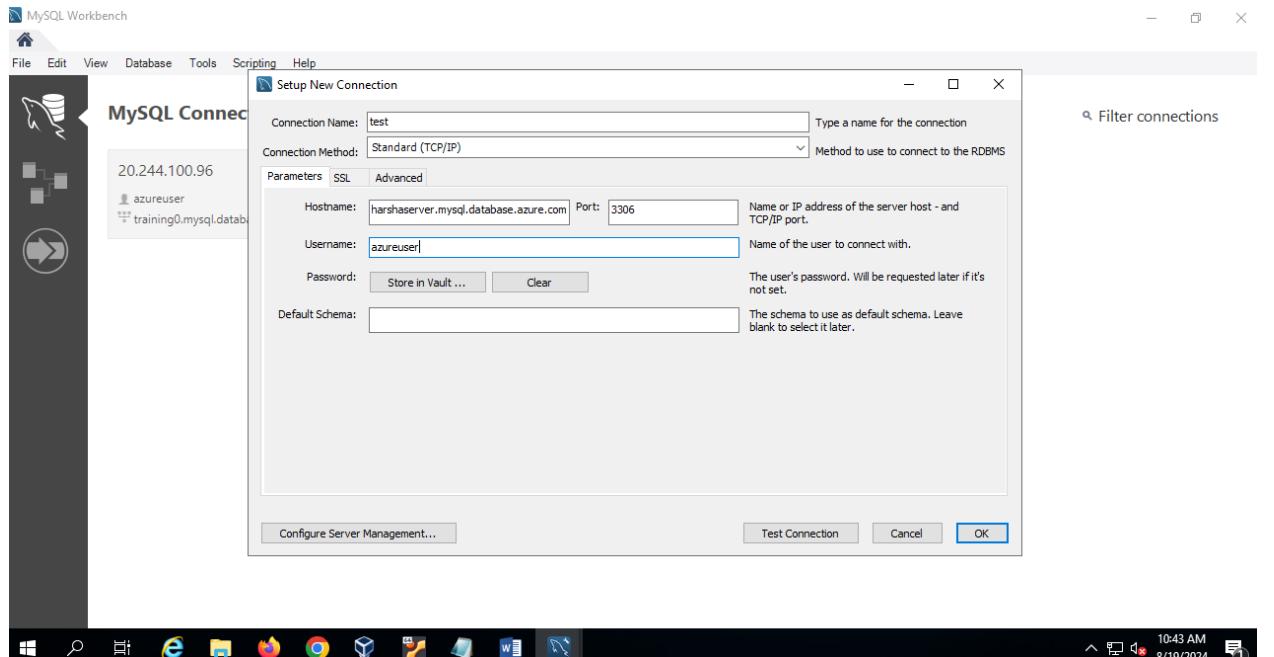
Compute Sku	INR	11903.49/month
Storage	INR 217.98/month	
Storage selected 20 GiB (INR 10.90 per GiB)	20 x 10.90	10.90
Auto scale IOPS		
Auto scale IOPS is billed on usage in per million request increments.	Learn more	
Backup Retention		
Backup retention is billed based on additional storage used for retaining backups.	Learn more	
Bandwidth		
For outbound data transfer across services in different regions will incur		

**Create** < Previous Download a template for automation

The screenshot shows the Azure portal interface for managing a MySQL flexible server. The top navigation bar includes links for Home, Overview, and Resource Groups. The main content area displays the 'Overview' tab for the 'harshaserver' MySQL flexible server. Key details shown include:

- Subscription: Azure Pass - Sponsorship
- Subscription ID: 348ac279-08f0-424f-b35b-80035082612a
- Resource group: mysql
- Status: Available
- Location: Central India
- Server name: harshaserver.mysql.database.azure.com
- Server admin login name: azureuser
- Configuration: Butable\_82ms\_2vCores\_8GB RAM\_20GB storage
- MySQL version: 8.0
- Availability zone: 2
- Created On: 2024-08-19 17:31:07.4633574 UTC

The left sidebar lists other management options like Access control (IAM), Tags, Diagnose and solve problems, Learning center, Settings, Power Platform, Security, Monitoring, Automation, and Help.



The screenshot shows the MySQL Workbench interface with the "test" connection selected. The "Query 1" tab is active, displaying the results of the query "show databases;". The results grid shows four databases: "information\_schema", "mysql", "performance\_schema", and "sys". Below the grid, the "Result 1" tab shows the output of the "show databases" command, which includes the timestamp "1 10:45:10" and the action "show databases". The message area indicates "4 row(s) returned" and the duration "0.046 sec / 0.000 sec". The left sidebar contains navigation links for "MANAGEMENT", "INSTANCE", and "PERFORMANCE". The status bar at the bottom right shows "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.".

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: MANAGEMENT  
Server Status Client Connections Users and Privileges Status and System Variables Data Export Data Import/Restore

INSTANCE INSTANCE  
Startup / Shutdown Server Logs Options File

PERFORMANCE PERFORMANCE  
Dashboard Administration Schemas

Information: No object selected

Query 1: 1 create database mydatabase;

Action Output:

#	Time	Action	Message	Duration / Fetch
1	10:45:10	show databases	4 row(s) returned	0.046 sec / 0.000 sec
2	10:47:21	create database mydatabase	1 row(s) affected	0.062 sec

SQLAdditions: Jump to Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Object Info Session

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: MANAGEMENT  
Server Status Client Connections Users and Privileges Status and System Variables Data Export Data Import/Restore

INSTANCE INSTANCE  
Startup / Shutdown Server Logs Options File

PERFORMANCE PERFORMANCE  
Dashboard Administration Schemas

Information: No object selected

Query 1: 1 use mydatabase;

Action Output:

#	Time	Action	Message	Duration / Fetch
1	10:45:10	show databases	4 row(s) returned	0.046 sec / 0.000 sec
2	10:47:21	create database mydatabase	1 row(s) affected	0.062 sec
3	10:48:58	use mydatabase	0 row(s) affected	0.047 sec

SQLAdditions: Jump to Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Object Info Session

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Query 1 SQL File 1\* SQL File 2\*

```
1 • CREATE TABLE departments (
2     department_id INT PRIMARY KEY ,
3     department_name VARCHAR(100)
4 );
5
6 • CREATE TABLE employees (
7     employee_id INT PRIMARY KEY,
8     employee_name VARCHAR(100),
9     department_id INT,
10    FOREIGN KEY (department_id) REFERENCES departments(department_id)
11 );
```

File Edit View Query Database Server Tools Scripting Help

Query 1 SQL File 3\* SQL File 4\*

```
1 • CREATE TABLE departments (
2     department_id INT PRIMARY KEY ,
3     department_name VARCHAR(100)
4 );
5
6 • CREATE TABLE employees (
7     employee_id INT PRIMARY KEY,
8     employee_name VARCHAR(100),
9     department_id INT,
10    FOREIGN KEY (department_id) REFERENCES departments(department_id)
11 );
```

Output

#	Time	Action	Message	Duration / Fetch
3	11:35:47	use mydatabase	0 row(s) affected	0.031 sec
4	11:38:34	CREATE TABLE departments (department_id INT PRIMARY KEY, department_name VARCHAR(100))	0 row(s) affected	0.110 sec
5	11:38:34	CREATE TABLE employees (employee_id INT PRIMARY KEY, employee_name VARCHAR(100), d...)	0 row(s) affected	0.109 sec
6	11:43:44	INSERT INTO departments (department_id, department_name) VALUES (1, 'Human Resource'), (2, 'Engi...')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.047 sec
7	11:43:44	INSERT INTO employees (employee_id, employee_name, department_id) VALUES (101, 'Sachin', 1), (102, 'John Doe', 2)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.078 sec

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Query 1 SQL File 3\* SQL File 4\* Limit to 1000 rows

```

1 • INSERT INTO departments (department_id, department_name)
2   VALUES
3     (1, 'Human Resource'),
4     (2, 'Engineering'),
5     (3, 'Marketing'),
6     (4, 'Finance')
7
8
9 • INSERT INTO employees (employee_id, employee_name, department_id)
10  VALUES
11    (101, 'Sachin', 1),
12    (102, 'Virat', 2),
13    (103, 'Dhoni', 3)

```

Action Output

#	Time	Action	Message	Duration / Fetch
3	11:35:47	use mydatabase	0 row(s) affected	0.031 sec
4	11:38:34	CREATE TABLE departments (department_id INT PRIMARY KEY, department_name VARCHAR(100))	0 row(s) affected	0.110 sec
5	11:38:34	CREATE TABLE employees (employee_id INT PRIMARY KEY, employee_name VARCHAR(100), department_id INT)	0 row(s) affected	0.109 sec
6	11:43:44	INSERT INTO departments (department_id, department_name) VALUES (1, 'Human Resource'), (2, 'Engineering'), (3, 'Marketing'), (4, 'Finance')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.047 sec
7	11:43:44	INSERT INTO employees (employee_id, employee_name, department_id) VALUES (101, 'Sachin', 1), (102, 'Virat', 2), (103, 'Dhoni', 3)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.078 sec

File Edit View Query Database Server Tools Scripting Help

Query 1 #inner join| SQL File 3\* SQL File 4\* Limit to 1000 rows

```

1 • #inner join
2 SELECT employees.employee_name, departments.department_name
3 FROM employees
4 INNER JOIN departments
5 ON employees.department_id = departments.department_id;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid

employee_name	department_name
Sachin	Human Resource
Virat	Engineering
Dhoni	Engineering
Rohit	Marketing
Bumrah	Finance

Action Output

#	Time	Action	Message	Duration / Fetch
4	11:38:34	CREATE TABLE departments (department_id INT PRIMARY KEY, department_name VARCHAR(100))	0 row(s) affected	0.110 sec
5	11:38:34	CREATE TABLE employees (employee_id INT PRIMARY KEY, employee_name VARCHAR(100), department_id INT)	0 row(s) affected	0.109 sec
6	11:43:44	INSERT INTO departments (department_id, department_name) VALUES (1, 'Human Resource'), (2, 'Engineering'), (3, 'Marketing'), (4, 'Finance')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.047 sec
7	11:43:44	INSERT INTO employees (employee_id, employee_name, department_id) VALUES (101, 'Sachin', 1), (102, 'Virat', 2), (103, 'Dhoni', 3)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.078 sec
8	11:47:05	SELECT employees.employee_name, departments.department_name FROM employees INNER JOIN de...	5 row(s) returned	0.031 sec / 0.000 sec

File Edit View Query Database Server Tools Scripting Help

Query 1 SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* SQL File 7\*

#left outer join

```
1 • SELECT employees.employee_name, departments.department_name
2   FROM employees
3   LEFT OUTER JOIN departments
4     ON employees.department_id = departments.department_id;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

employee_name	department_name
Sachin	Human Resource
Virat	Engineering
Dhoni	Engineering
Rohit	Marketing
Bumrah	Finance

Result 1 x Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
5	11:38:34	CREATE TABLE employees (employee_id INT PRIMARY KEY, employee_name VARCHAR(100), department_id INT)	0 row(s) affected	0.109 sec
6	11:43:44	INSERT INTO departments (department_id, department_name) VALUES (1, 'Human Resource'), (2, 'Engineering'), (3, 'Marketing'), (4, 'Finance')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.047 sec
7	11:43:44	INSERT INTO employees (employee_id, employee_name, department_id) VALUES (101, 'Sachin', 1), (102, 'Virat', 2), (103, 'Dhoni', 2), (104, 'Rohit', 3), (105, 'Bumrah', 4)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.078 sec
8	11:47:05	SELECT employees.employee_name, departments.department_name FROM employees INNER JOIN departments ON employees.department_id = departments.department_id;	5 row(s) returned	0.031 sec / 0.000 sec
9	11:48:56	SELECT employees.employee_name, departments.department_name FROM employees LEFT OUTER JOIN departments ON employees.department_id = departments.department_id;	5 row(s) returned	0.297 sec / 0.000 sec

File Edit View Query Database Server Tools Scripting Help

Query 1 SQL File 3\* SQL File 4\* SQL File 5\* SQL File 6\* SQL File 7\*

#right OUTER join

```
1 • SELECT employees.employee_name, departments.department_name
2   FROM employees
3   RIGHT OUTER JOIN departments
4     ON employees.department_id = departments.department_id;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

employee_name	department_name
Sachin	Human Resource
Virat	Engineering
Dhoni	Engineering
Rohit	Marketing
Bumrah	Finance

Result 1 x Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
6	11:43:44	INSERT INTO departments (department_id, department_name) VALUES (1, 'Human Resource'), (2, 'Engineering'), (3, 'Marketing'), (4, 'Finance')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.047 sec
7	11:43:44	INSERT INTO employees (employee_id, employee_name, department_id) VALUES (101, 'Sachin', 1), (102, 'Virat', 2), (103, 'Dhoni', 2), (104, 'Rohit', 3), (105, 'Bumrah', 4)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.078 sec
8	11:47:05	SELECT employees.employee_name, departments.department_name FROM employees INNER JOIN departments ON employees.department_id = departments.department_id;	5 row(s) returned	0.031 sec / 0.000 sec
9	11:48:56	SELECT employees.employee_name, departments.department_name FROM employees LEFT OUTER JOIN departments ON employees.department_id = departments.department_id;	5 row(s) returned	0.297 sec / 0.000 sec
10	11:50:17	SELECT employees.employee_name, departments.department_name FROM employees RIGHT OUTER JOIN departments ON employees.department_id = departments.department_id;	5 row(s) returned	0.046 sec / 0.000 sec

Microsoft Azure - Create Azure Database for MySQL Flexible server - Restore server

Estimated costs

Compute Sku	INR
Standard_B2ms (2 vCores)	11903.49/month

Storage selected 20 GB (INR 10.90 per GB) 20 x 10.90

Auto scale IOPS

Backup Retention

Bandwidth

Source details

Select a backup source and detail. Additional settings will be defaulted where possible based on the backup selected.

Source server: harshaserver

Geo-redundant restore:  Restore to cross region

Earliest restore point: 2024-08-19 17:41:07 UTC

Point-in-time-restore (PITR):  Latest restore point (Now)  Select a custom restore point  Select fastest restore point (Restore using full backup)

Basics Networking Security Tags Review + create Next : Networking >

Microsoft Azure - Create Azure Database for MySQL Flexible server - Restore server

Estimated costs

Compute Sku	INR
Standard_B2ms (2 vCores)	11903.49/month

Storage selected 20 GB (INR 10.90 per GB) 20 x 10.90

Auto scale IOPS

Server details

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

Name: newservice04

Location: Central India

MySQL version: 8.0

Server name must be at least 3 characters and at most 63 characters.  
Server name must only contain lowercase letters, numbers, and hyphens. The server name must not start or end in a hyphen.  
Server name must be available.

Review + create Next : Networking >

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F348ac279-08f0-424f-b35b-80035082612a...

Microsoft Azure harshagiduturi@outlook... DEFAULT DIRECTORY

## RestoreMySQLFlexibleServer\_87a3982073524163bbd706b05fb5f5b3 | Overview

Your deployment is complete

Deployment name : RestoreMySQLFlexibleServer\_87a3982073524163bbd706b05fb5f5b3 Start time : 8/19/2024, 11:56:42 AM  
Subscription : Azure Pass - Sponsorship Correlation ID : 473f52e7-67e0-4abb-b89b-629ca614d8fa  
Resource group : mysql

Deployment details

Next steps

Learn how to manage your server Recommended  
For public access connectivity, setup a firewall rule to connect to the server Recommended  
Learn about private access connectivity method Recommended  
Setup monitoring alerts Recommended

Go to resource

Cost management Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >

Get started with MySQL Flexible Server Free Microsoft tutorials Create PHP + MySQL App

portal.azure.com/#@harshagiduturioutlook.onmicrosoft.com/resource/subscriptions/348ac279-08f0-424f-b35b-80035082612a/resourceGroups...

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## newserver04 | Overview

Azure Database for MySQL Flexible server

Connect View process list Delete Reset password Restore Restart Stop Refresh Feedback

Azure Database for MySQL - Live Webinar series: Learn about the latest updates (with demo) and interact directly with product group on the 2nd Wednesday of every month! [Subscribe to our YouTube channel](#) today!

Essentials

Subscription (move) : Azure Pass - Sponsorship	Server name : newserver04.mysql.database.azure.com
Subscription ID : 348ac279-08f0-424f-b35b-80035082612a	Server admin login name : azureuser
Resource group (move) : mysql	Configuration : Burstable_B2ms_2 vCores, 8 GB RAM, 20 GB storage
Status : Available	MySQL version : 8.0
Location : Central India	Availability zone : 2
Tags (edit) : learner : harsha	Created On : 2024-08-19 18:57:03.7467420 UTC

Getting started Properties Recommendations Monitoring Tutorials

Start your project

Connect to your database for the first time with a few simple steps.

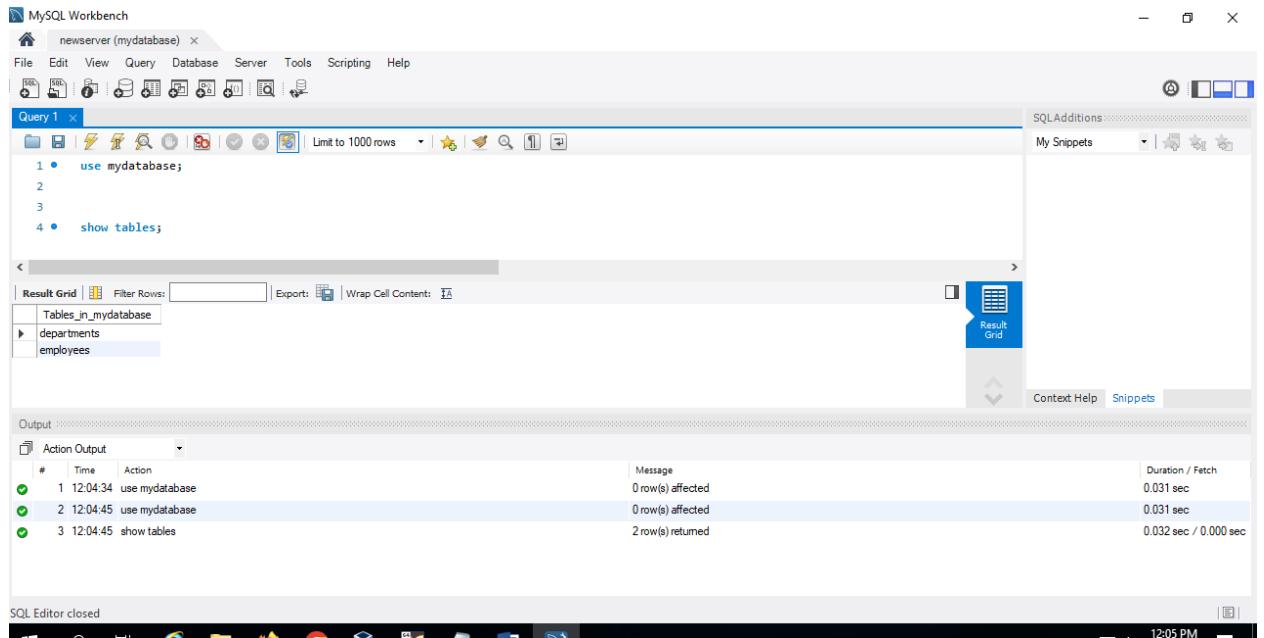
Learn Learn about MySQL Flexible Server through a curated list of modules to take you from zero to hero.

Allow access Configure network access to your MySQL database

Connect View connection string to learn how to connect with the application driver you use (NET, PSQL, Python, JDBC, PHP, Node.js, Ruby, PHP, C++)

Samples Setup a sample database schema to get started

12:02 PM 8/19/2024



### 3<sup>rd</sup>. Host a Jenkins image on azure container instance

- FIRST CREATE A CONTAINER INSTANCE

Home > Container instances >

### Create container instance

[Review + create](#)

[Basics](#) [Networking](#) [Advanced](#) [Tags](#) [Review + create](#)

Azure Container Instances (ACI) allows you to quickly and easily run containers on Azure without managing servers or having to learn new tools. ACI offers per-second billing to minimize the cost of running containers on the cloud. [Learn more about Azure Container Instances](#)

**Project details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* [Azure Pass - Sponsorship](#)

Resource group \* [Create new](#)

**Container details**

Container name \*

Region \* [\(Asia Pacific\) Central India](#)

Availability zones (Preview) \* [None](#)

SKU [Standard](#)

Standard SKU is available for all regions. Confidential SKU is only available for specific regions. [Learn more](#)

[Review + create](#) [< Previous](#) [Next : Networking >](#) [Give feedback](#)

- Now after giving in the resource group and container name we need to select other registry and give the JENKINS docker hub.

Microsoft Azure

Home > Container instances >

### Create container instance

[Review + create](#)

[SKU](#) [Standard](#)

Standard SKU is available for all regions. Confidential SKU is only available for specific regions. [Learn more](#)

**Image source \***

Quickstart images

Azure Container Registry

Other registry

Please be aware that Docker Hub has recently introduced a pull rate limit on Docker images. When specifying an image from the Docker Hub registry, this may impact the creation of your container instance. [Learn more](#)

**Run with Azure Spot discount**

Spot containers are not available in the selected region. [Learn more](#)

**Image type \***

Public  Private

**Image \***  The image name should be specified as a URI or a Docker Hub tag without protocol (for example: "mydockerregistry/hello-world", "myazureregistry.io/mycontainerimage")

If not specified, Docker Hub will be used for the container registry and the latest version of the image will be pulled.

**OS type \***

Linux  Windows

[Review + create](#) [< Previous](#) [Next : Networking >](#) [Give feedback](#)

- Changing container size

**Create container instance**

**Image source \***

- Docker Hub images
- Azure Container Registry
- Other registry

**Please be aware that Docker Hub has recently introduced a pull rate limit on Docker images. When specifying an image from the Docker Hub registry, this may impact the creation of your container instance. [Learn more](#)**

**Run with Azure Spot discount**

**Spot containers are not available in the selected region. [Learn more](#)**

**Image type \***

- Public
- Private

**Image \*** Jenkins/jenkins

**OS type \***

- Linux
- Windows

**Size \***

1 vcpu, 1.5 GB memory, 0 gpus  
[Change size](#)

**Review + create** **< Previous** **Next : Networking >** **Ok** **Discard** **Give feedback**

- We will give in the Jenkins port number along with the desired protocol

**Create container instance**

**Networking**

Choose between three networking options for your container instance:

- Public** will create a public IP address for your container instance.
- Private** will allow you to choose a new or existing virtual network for your container instance.
- None** will not create either a public IP or virtual network. You will still be able to access your container logs using the command line.

**Networking type**  Public  Private  None

**DNS name label**

**DNS name label scope reuse**  Any reuse (unsecure)

**Ports**

Ports	Ports protocol
80	TCP
8080	TCP

**Review + create** **< Previous** **Next : Advanced >** **Give feedback**

- We will wait for the validation to pass and then create the container instance.

The screenshot shows the 'Create container instance' wizard in the Microsoft Azure portal. The 'Validation passed' step has been completed. The 'Review + create' tab is selected. The 'Basics' section displays the following configuration:

Setting	Value
Subscription	Azure Pass - Sponsorship
Resource group	learning
Region	Central India
Container name	docker
SKU	Standard
Image type	Public
Image	Jenkins/Jenkins
OS type	Linux
Memory (GB)	2
Number of CPU cores	2
GPU type (preview)	None
GPU count	0

The 'Networking' section is collapsed. At the bottom, there are 'Create' and 'Next >' buttons, along with a link to 'Download a template for automation'.

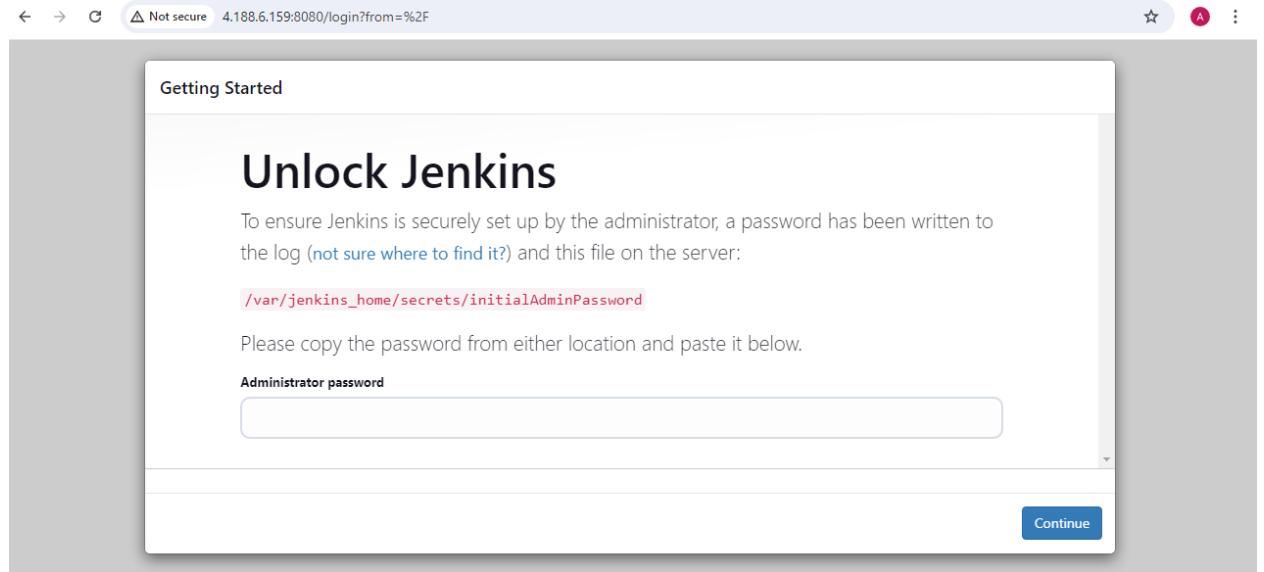
- Now the container is created.

The screenshot shows the 'Overview' page for the 'docker' container instance. The left sidebar includes options like 'Search', 'Start', 'Restart', 'Stop', 'Delete', 'Refresh', and 'Give feedback'. The main area displays the container's details:

Essentials	Value
Resource group (move)	: learning
Status	: Running
Location	: Central India
Subscription (move)	: Azure Pass - Sponsorship
Subscription ID	: 348ac279-08f0-424f-b35b-80035082612a
Tags (edit)	: Add tag

Below this are three performance charts: 'CPU', 'Memory', and 'Network bytes received'. The CPU chart shows usage from 0 to 100% over time. The Memory chart shows usage from 0 to 1000MB. The Network bytes received chart shows usage from 0 to 1000BPS over time.

- Once the instance is created we will copy the ip and the Jenkins port number.



4<sup>th</sup>: Create and configure a Cosmos DB account and perform CRUD operations.

The screenshot shows the Microsoft Azure portal with the search bar at the top. The URL is Home > Azure Cosmos DB > Create an Azure Cosmos DB account. The page title is "Create an Azure Cosmos DB account". It asks "Which API best suits your workload?" and provides two options: "Azure Cosmos DB for NoSQL" and "Azure Cosmos DB for MongoDB". Both options have a "Create" button and a "Learn more" link. At the bottom, there are "Give Feedback" and "Help improve this page" links.



portal.azure.com/#create/Microsoft.DocumentDB

Microsoft Azure Search resources, services, and docs (G+) harshagiduturi@outlook.com DEFAULT DIRECTORY

### Create Azure Cosmos DB Account - Azure Cosmos DB for NoSQL ...

Validation Success

Basics Global distribution Networking Backup Policy Encryption Tags Review + create

**Creation Time**

Estimated Account Creation Time (in minutes) 2

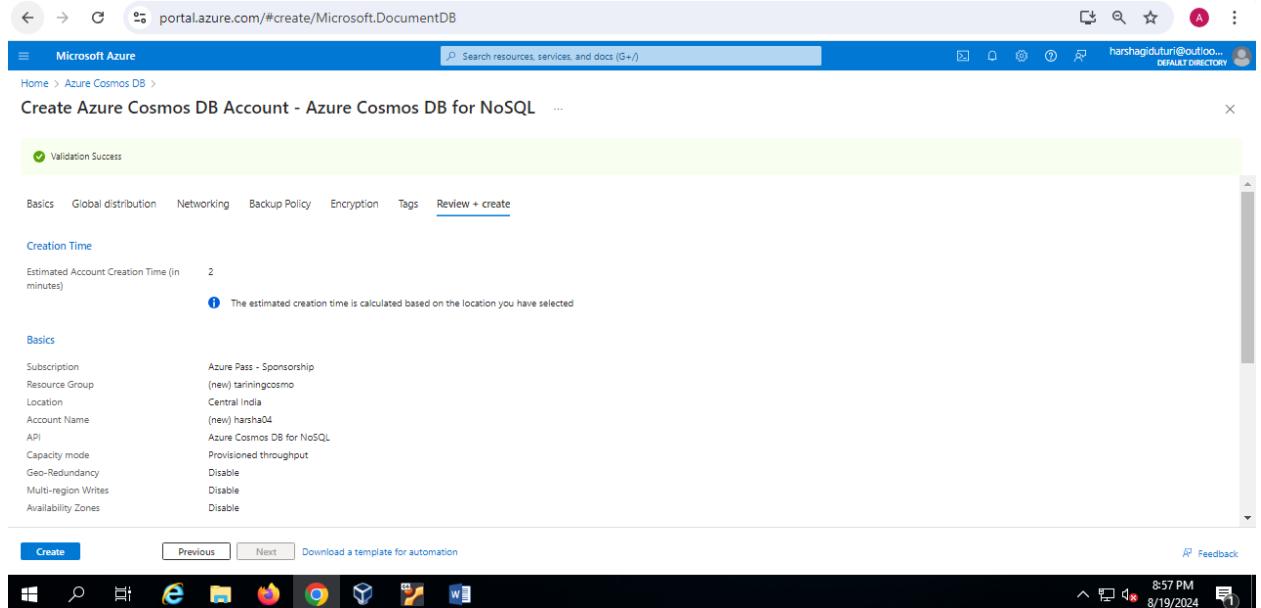
The estimated creation time is calculated based on the location you have selected

**Basics**

Subscription	Azure Pass - Sponsorship
Resource Group	(new) taringcosmo
Location	Central India
Account Name	(new) HarshaQ4
API	Azure Cosmos DB for NoSQL
Capacity mode	Provisioned throughput
Geo-Redundancy	Disable
Multi-region Writes	Disable
Availability Zones	Disable

Create Previous Next Download a template for automation Feedback

8:57 PM 8/19/2024



portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F348ac279-08f0-424f-b35b-80035082612a%2Fr...

Microsoft Azure Search resources, services, and docs (G+) harshagiduturi@outlook.com DEFAULT DIRECTORY

### Microsoft.Azure.CosmosDB-20240819205928 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

**Overview**

Your deployment is complete

Deployment name : Microsoft.Azure.CosmosDB-20240819205928  
Subscription : Azure Pass - Sponsorship  
Resource group : taringcosmo

Start time : 8/19/2024, 8:59:30 PM  
Correlation ID : 88de734b-e029-49a3-8b6a-479119b69bd1

Deployment details  
Next steps

Go to resource Give feedback Tell us about your experience with deployment

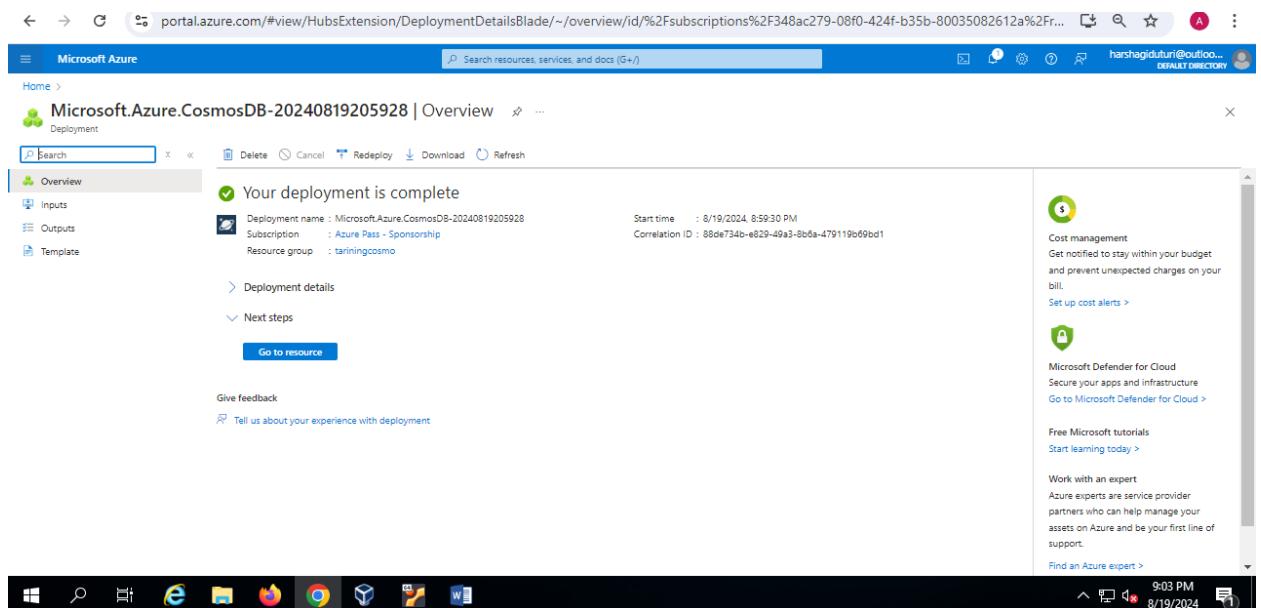
**Cost management**  
Get notified to stay within your budget and prevent unexpected charges on your bill.  
Set up cost alerts >

**Microsoft Defender for Cloud**  
Secure your apps and infrastructure  
Go to Microsoft Defender for Cloud >

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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 >

9:03 PM 8/19/2024



Microsoft Azure | portal.azure.com/#@harshagiduturioutlook.onmicrosoft.com/resource/subscriptions/348ac279-08f0-424f-b35b-80035082612a/resourcegroups/tarin...

Search resources, services, and docs (G+)

harsha04 | Overview

Acute Cosmos DB account

Add Container Refresh Move Data Explorer Enable geo-redundancy Delete Account Feedback

Welcome to your Azure Cosmos DB Free Tier account! Your first 1000 RU/s and 25 GB of storage will be free for the lifetime of this account. Click here to learn more.

Query with AI using Microsoft Copilot for Azure in Cosmos DB! Ask your subscription admin to enable the preview today. Learn more Enroll

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Cost Management Quick start Data Explorer Settings Integrations Containers Monitoring Automation Help

Essentials Status: Online Read Locations: Central India Resource group (move): tariningscosmo Write Locations: Central India Subscription (move): Azure Pass - Sponsorship URI: https://harsha04.documents.azure.com:443/ Total throughput limit: 1000 RU/s Free Tier Discount: Opted In Capacity mode: Provisioned throughput

Containers

Monitoring Show data for last: 1 hour 24 hours 7 days 30 days Requests Estimated Cost (hourly) Throughput

JSON View

9:18 PM 8/19/2024

Microsoft Azure | portal.azure.com/#@harshagiduturioutlook.onmicrosoft.com/resource/subscriptions/348ac279-08f0-424f-b35b-80035082612a/resourcegroups/tarin...

Search resources, services, and docs (G+)

harsha04 | Overview

Azure Cosmos DB account

Search Overview Activity log Access control (IAM) Tags Diagnose and solve problems Cost Management Quick start Data Explorer Settings Integrations Containers Monitoring Automation Help

Congratulations! Your Azure Cosmos DB account was created.

Now, let's connect to it using a sample app:

Choose a platform .NET Java Node.js Python

Step 1: Add a container

In Azure Cosmos DB, data is stored in containers.

Create 'Items' container

Create 'Items' container with 400 Request Units per second (RU/s) throughput capacity, for up to 400 reads/sec. To see your container, go to Data Explorer and find the ToDoList database.

Step 2: Download and run your Python app

Once collection is created, download a sample Python app connected to it, extract, build and run.

Download

Follow instructions in the [readme.md](#) to setup prerequisites needed to run Java web apps, if you haven't already.

Give Feedback Help improve this page

Windows Search Internet Explorer File Google Chrome Firefox Microsoft Edge Word

Microsoft Azure

Home > Microsoft.Azure.CosmosDB-20240819205928 | Overview > harsha04

### harsha04 | Data Explorer

Azure Cosmos DB account

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Access control (IAM)

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Diagnose and solve problems

Cost Management

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- Containers
- Monitoring
- Automation
- Help

New Container

Enable Azure Synapse Link

New SQL Query

Open Query

New Stored Procedure

Query with AI using Microsoft Copilot for Azure in Cosmos DB! Ask your subscription admin to enable the preview today. [Learn more](#) Enroll

To prevent queries from using excessive RU's, Data Explorer has a 5,000 RU default limit. To modify or remove the limit, go to the Settings cog on the right and find "RU Threshold". [Learn More](#)

Home

ToDoList

Items

Items

Scale & Settings

Stored Procedures

User Defined Functions

Triggers

SELECT \* FROM c

id /partition

Edit Filter

9:22 PM

Microsoft Azure

Home > harsha04

### harsha04 | Data Explorer

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+ New Container

Home

harshadb

Scale

Welcome to Azure Cosmos DB!

Globally distributed, multi-model database service

Launch quick start

Launch a quick start tutorial to get started with sample data.

New Container

Create a new container for storage and throughput.

New Container

Database id: harshadb

Create new  Use existing

Container id: actors

Indexing: Automatic  Off

All properties in your documents are indexed by default for flexible and efficient queries. [Learn more](#)

Partition key: /test

Add hierarchical partition key

Provision dedicated throughput for this container

Microsoft Azure

Home > harsha04

## harsha04 | Data Explorer

Azure Cosmos DB account

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- Help

+ New Container

Home

SELECT \* FROM c

actors.items

id

/test

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Load more

0 2 7

11:02 PM

The screenshot shows the Microsoft Azure Data Explorer interface for an Azure Cosmos DB account named 'harsha04'. The left sidebar includes links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Cost Management, Quick start, and Data Explorer. Under Data Explorer, there are options for Settings, Integrations, Containers, Monitoring, Automation, and Help. A 'New Container' button is available at the top. The main area displays a table with columns 'id' and '/test'. The table contains three rows with values 1, 2, and 3. Below the table, a JSON snippet is shown:

```
1 { "id": "4", "name": "Suriya", "birthYear": 1975, "movies": ["Oopiri", "Kaakha Kaakha", "Singam"], "r_id": "9gQEAOhqAoFAAAAAAA=", "_self": "db://SqlAA-/colls/9gQEAOhqAo/docs/9gQEAOhqAoFAAAAAAA=", "_etag": "\\"2024-08-20T00:00:00Z\\", "_attachments": "attachments/", "_ts": 1724134946} 2 { "id": "1", "name": "Vijay", "birthYear": 1974, "movies": ["Mersal", "Thuppakkai", "Master"], "r_id": "9gQEAOhqAoFAAAAAAA=", "_self": "db://SqlAA-/colls/9gQEAOhqAo/docs/9gQEAOhqAoFAAAAAAA=", "_etag": "\\"2024-08-20T00:00:00Z\\", "_attachments": "attachments/", "_ts": 1724134828} 3 { "id": "2", "name": "Amitabh Bachchan", "birthYear": 1942, "movies": ["Sholay", "Kabhi Khushi Kabhi Gham", "Dilwale Dulhania Le Jayenge", "Lagaan", "Taare Zameen Par", "Rang De Basanti", "Chak De India", "Ra One", "Yeh Jawaani Hai Deewani", "Piku", "Pink", "The Flying Jatt", "Bhoothnath Returns", "Kaminey", "Kahaani", "Pyaar Ka Karna Saab Karan", "Kabhi Khushi Kabhi Gham", "Dilwale Dulhania Le Jayenge", "Lagaan", "Taare Zameen Par", "Rang De Basanti", "Chak De India", "Ra One", "Yeh Jawaani Hai Deewani", "Piku", "Pink", "The Flying Jatt", "Bhoothnath Returns", "Kaminey", "Kahaani", "Pyaar Ka Karna Saab Karan"], "r_id": "9gQEAOhqAoFAAAAAAA=", "_self": "db://SqlAA-/colls/9gQEAOhqAo/docs/9gQEAOhqAoFAAAAAAA=", "_etag": "\\"2024-08-20T00:00:00Z\\", "_attachments": "attachments/", "_ts": 1724134946}
```

Microsoft Azure

Home > harsha04

## harsha04 | Data Explorer

Azure Cosmos DB account

Search

Overview

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Access control (IAM)

Tags

Diagnose and solve problems

Cost Management

Quick start

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- Containers
- Monitoring
- Automation
- Help

+ New Container

Home

actors.items

harshadb.Scale

id

/test

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Load more

12:33 AM Message: ("errors": [{"severity": "Error", "location": {"start": 84, "end": 88}, "code": "SC2001", "message": "'identifier 'name' could not be resolved.'"}], ActivityId: c78580b12-2559-422f-853b-ae8af396da5, Microsoft.Azure.Documents.Common/2.14.0)

12:34 AM 8/20/2024

This screenshot shows the Microsoft Azure Data Explorer interface for the same account. The left sidebar and navigation are identical to the first screenshot. The main area displays a table with columns 'id' and '/test'. The table contains two rows with values 1 and 3. Below the table, a JSON snippet is shown, followed by an error message and activity ID:

```
1 { "id": "3", "name": "Vijay", "birthYear": 1974, "movies": ["Mersal", "Thuppakkai", "Master"], "r_id": "9gQEAOhqAoFAAAAAAA=", "_self": "db://SqlAA-/colls/9gQEAOhqAo/docs/9gQEAOhqAoFAAAAAAA=", "_etag": "\\"2024-08-20T00:00:00Z\\", "_attachments": "attachments/", "_ts": 1724134828} 2 { "id": "1", "name": "Amitabh Bachchan", "birthYear": 1942, "movies": ["Sholay", "Kabhi Khushi Kabhi Gham", "Dilwale Dulhania Le Jayenge", "Lagaan", "Taare Zameen Par", "Rang De Basanti", "Chak De India", "Ra One", "Yeh Jawaani Hai Deewani", "Piku", "Pink", "The Flying Jatt", "Bhoothnath Returns", "Kaminey", "Kahaani", "Pyaar Ka Karna Saab Karan"], "r_id": "9gQEAOhqAoFAAAAAAA=", "_self": "db://SqlAA-/colls/9gQEAOhqAo/docs/9gQEAOhqAoFAAAAAAA=", "_etag": "\\"2024-08-20T00:00:00Z\\", "_attachments": "attachments/", "_ts": 1724134946}
```

Message: ("errors": [{"severity": "Error", "location": {"start": 84, "end": 88}, "code": "SC2001", "message": "'identifier 'name' could not be resolved.'"}], ActivityId: c78580b12-2559-422f-853b-ae8af396da5, Microsoft.Azure.Documents.Common/2.14.0)

Microsoft Azure | portal.azure.com/#@harshagiduturioutlook.onmicrosoft.com/resource/subscriptions/348ac279-08f0-424f-b35b-80035082612a/resourceGroups/tarin...    

Microsoft Azure harsha04

Home > harsha04

harsha04 | Data Explorer  

Azure Cosmos DB account

Search  Overview  Activity log  Access control (IAM)  Tags  Diagnose and solve problems  Cost Management  Quick start  Data Explorer  Settings  Integrations  Containers  Monitoring  Automation  Help 

Query with AI using Microsoft Copilot for Azure in Cosmos DB! Ask your subscription admin to enable the preview today: [Learn more](#) 

Overview  New Item  Update  Discard  Delete  Upload Item 

Home  actors.items  harshadb.Scale 

SELECT \* FROM c

	id	/test
<input type="checkbox"/>	1	"id": "1", "name": "Rajinikanth", "birthYear": 1952, "movies": [ {"id": 1, "name": "Sivaji", "year": 1987}, {"id": 2, "name": "Enthiran", "year": 2010}, ], "_rid": "9gQEAOhqAoCAAAAAAAA==", "_self": "dbs/9gQEAOhqAo/colls/9gQEAOhqAo/docs/9gQEAOhqAoCAAAAAAAA==/", "_etag": "\\"1200af5c-0000-0000-66c447590000\\\"", "_attachments": "attachments/", "_ts": 1724134772
<input type="checkbox"/>	2	
<input type="checkbox"/>	3	
<input type="checkbox"/>	4	

Load more 

12:33 AM Message: ["severity":"Error","location":{"start":84,"end":88},"code":"SC2001","message":"Identifier 'name' could not be resolved."]  
ActivityId: c7658b12-2559-4221-853b-ae8a9f96d45, Microsoft.Azure.Documents.Common/2.14.0

12:35 AM Successfully updated item 1

12:33 AM Message: ["severity":"Error","location":{"start":84,"end":88},"code":"SC2001","message":"Identifier 'name' could not be resolved."]  
ActivityId: c7658b12-2559-4221-853b-ae8a9f96d45, Microsoft.Azure.Documents.Common/2.14.0

12:33 AM Message: ["severity":"Error","location":{"start":84,"end":88},"code":"SC2001","message":"Identifier 'name' could not be resolved."]  
ActivityId: 485c5e8a-9326-4089-99e2-03e3b2ca2a4c, Microsoft.Azure.Documents.Common/2.14.0

11:22 PM Successfully created new item for container actors

11:20 PM Successfully created new item for container actors

Windows Taskbar:         12:35 AM 8/20/2024

Microsoft Azure | portal.azure.com/#@harshagiduturioutlook.onmicrosoft.com/resource/subscriptions/348ac279-08f0-424f-b35b-80035082612a/resourceGroups/tarin...    

Microsoft Azure harsha04

Home > harsha04

harsha04 | Data Explorer  

Azure Cosmos DB account

Search  Overview  Activity log  Access control (IAM)  Tags  Diagnose and solve problems  Cost Management  Quick start  Data Explorer  Settings  Integrations  Containers  Monitoring  Automation  Help 

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Overview  New Item  Update  Discard  Delete  Upload Item 

Home  actors.items  harshadb.Scale 

SELECT \* FROM c

	id	/test
<input type="checkbox"/>	1	"id": "1", "name": "Rajinikanth", "birthYear": 1952, "movies": [ {"id": 1, "name": "Sivaji", "year": 1987}, {"id": 2, "name": "Enthiran", "year": 2010}, ], "_rid": "9gQEAOhqAoCAAAAAAAA==", "_self": "dbs/9gQEAOhqAo/colls/9gQEAOhqAo/docs/9gQEAOhqAoCAAAAAAAA==/", "_etag": "\\"1200af5c-0000-0000-66c447590000\\\"", "_attachments": "attachments/", "_ts": 1724139353
<input type="checkbox"/>	2	
<input type="checkbox"/>	3	
<input type="checkbox"/>	4	

Load more 

12:35 AM Successfully updated item 1

12:33 AM Message: ["severity":"Error","location":{"start":84,"end":88},"code":"SC2001","message":"Identifier 'name' could not be resolved."]  
ActivityId: c7658b12-2559-4221-853b-ae8a9f96d45, Microsoft.Azure.Documents.Common/2.14.0

12:33 AM Message: ["severity":"Error","location":{"start":84,"end":88},"code":"SC2001","message":"Identifier 'name' could not be resolved."]  
ActivityId: 485c5e8a-9326-4089-99e2-03e3b2ca2a4c, Microsoft.Azure.Documents.Common/2.14.0

11:22 PM Successfully created new item for container actors

11:20 PM Successfully created new item for container actors

Windows Taskbar:         12:36 AM 8/20/2024

Microsoft Azure | Data Explorer

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Cost Management Quick start Data Explorer

Search Overview Activity log Access control (IAM) Tags Diagnose and solve problems Cost Management Quick start Data Explorer

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+ New Container

To prevent queries from using excessive RU/s, Data Explorer has a 5,000 RU default limit. To modify or remove the threshold! Learn More

Enable Azure Synapse Link

New Database

Database id harshadb

Provision throughput Database throughput (autoscale)

Autoscale Manual

Estimate your required RU/s with capacity calculator

Database Max RU/s 1000

Your database throughput will automatically scale from 100 RU/s (10% of max RU/s) - 1000 RU/s based on usage.

harsha04 - Download Mail - Sri S Azure Devx Settings Extensions Azure Devx harshagidutri@outlook.com DEFAULT DIRECTORY

Microsoft Azure | Data Explorer

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Cost Management Quick start Data Explorer

Search Overview Activity log Access control (IAM) Tags Diagnose and solve problems Cost Management Quick start Data Explorer

Home actors.items harshadb Scale

SELECT \* FROM c

	/task	1	2	3	4	5
1		"1": "2",	"name": "Kanal Haasan",			
2						
3						
4						
5						

Confirm delete

Are you sure you want to delete the selected item?

Delete Cancel

12:35 AM Successfully updated item 1

12:33 AM Message: ["error": {"level": "Error", "location": {"start": 24, "end": 88}, "code": "SC2001", "message": "Identifier 'name' could not be resolved."}]

ActivityId: c7858d12-2559-422f-853b-aebaf596da5, Microsoft.Azure.Documents.Common/2.14.0

12:33 AM Message: ["error": {"level": "Error", "location": {"start": 24, "end": 88}, "code": "SC2001", "message": "Identifier 'name' could not be resolved."}]

ActivityId: 485c5eba-9326-40b9-99e2-03e53b2ca84c, Microsoft.Azure.Documents.Common/2.14.0

11:22 PM Successfully created new item for container actors

11:20 PM Successfully created new item for container actors

12:36 AM 8/20/2024

The screenshot shows the Microsoft Azure Data Explorer interface for an Azure Cosmos DB account named 'harsha04'. The left sidebar includes options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Cost Management, Quick start, and Data Explorer. The Data Explorer section is selected and displays a container named 'actors'. The 'Items' tab is active, showing four items with IDs 1, 3, and 4. A query bar at the top right shows 'SELECT \* FROM c'. Below the table, a timeline lists activity logs:

- 12:36 AM Successfully deleted item: 1 out of 1
- 12:35 AM Successfully updated item 1
- 12:33 AM Message: ("error": {"severity": "Error", "location": {"start": 84, "end": 98}, "code": "SC2001", "message": "Identifier 'name' could not be resolved."})  
ActivityId: c78580c2-3539-422f-853b-a8eaf956da45, Microsoft.Azure.Documents.Common/2.14.0
- 12:33 AM Message: ("error": {"severity": "Error", "location": {"start": 84, "end": 98}, "code": "SC2001", "message": "Identifier 'name' could not be resolved."})  
ActivityId: 488c5eba-b926-407b-9962-03e53b2ca64c, Microsoft.Azure.Documents.Common/2.14.0
- 11:22 PM Successfully created new item for container actors

5<sup>th</sup>. Create a alert for high cpu usage

Create a virtual machine - Microsoft Azure

Download history

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

harshagiduturi@outlook.com DEFAULT DIRECTORY

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Acure marketplace or use your own customized image. Complete the Basic tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

Resource group \*

Instance details

Virtual machine name \*

Region \*

Availability options

Zone options  Self-selected zone Choose up to 3 availability zones, one VM per zone

< Previous Next : Disks > Review + create

Give feedback

Windows Firewall Control Panel Internet Explorer Mozilla Firefox Google Chrome Microsoft Edge Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft OneDrive Microsoft Outlook Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft OneDrive Microsoft Outlook

4:20 AM 8/19/2024

Create a virtual machine

Confirm password \*

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*  None  Allow selected ports

Select inbound ports \*

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Licensing

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

Would you like to use an existing Windows Server license?

Review Azure hybrid benefit compliance [Learn more](#)

< Previous Next : Disks > Review + create

Give feedback

Windows Firewall Control Panel Internet Explorer Mozilla Firefox Google Chrome Microsoft Edge Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft OneDrive Microsoft Outlook Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft OneDrive Microsoft Outlook

4:21 AM 8/19/2024

Microsoft Azure

Home > Virtual machines >

### Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Configure monitoring options for your VM.

Alerts

Enable recommended alert rules

Alert rules

**Alert rules not configured**

Configure

Diagnostics

Boot diagnostics  Enable with managed storage account (recommended)  Enable with custom storage account  Disable

Enable OS guest diagnostics

Health

Enable application health monitoring

Set up recommended alert rules

Select alert rules

> Percentage CPU is greater than 80 %

> Available Memory Bytes is less than 1 GB

> Data Disk IOPS Consumed Percentage is greater than 95 %

> OS Disk IOPS Consumed Percentage is greater than 95 %

> Network In Total is greater than 500 GB

> Network Out Total is greater than 200 GB

> VmAvailability/Metric is less than 1

Notify me by

Email  harshagiduturi@outlook.com

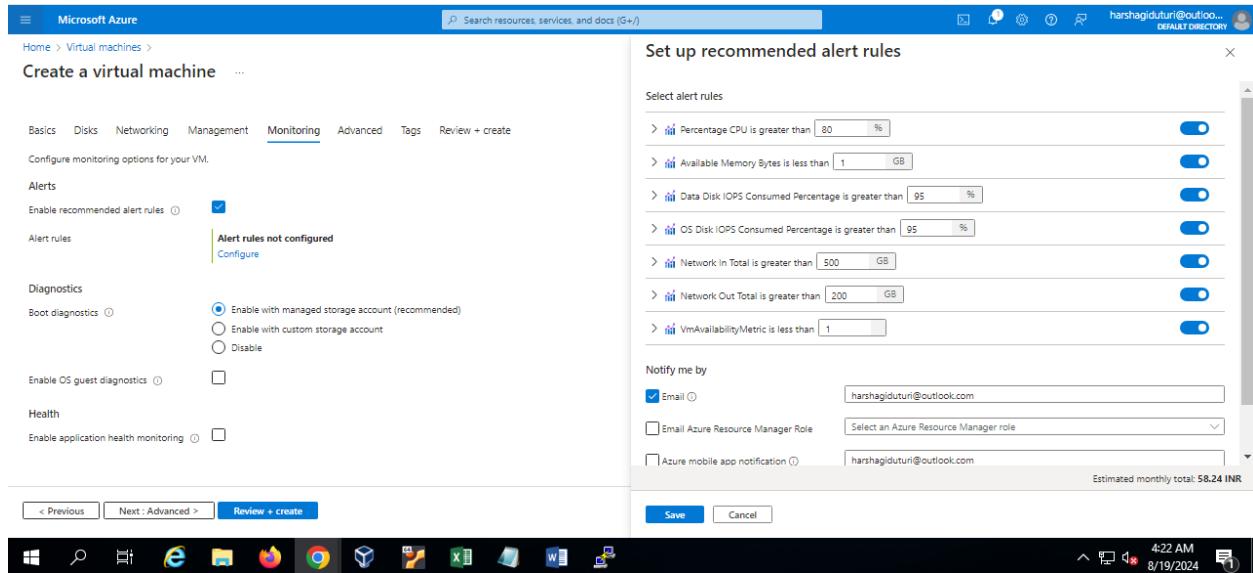
Email Azure Resource Manager Role  Select an Azure Resource Manager role

Azure mobile app notification  harshagiduturi@outlook.com

Estimated monthly total 58.24 INR

Save Cancel

4:25 AM 8/19/2024



Microsoft Azure

Home > CreateVm-MicrosoftWindowsServer:WindowsServer-202-20240819041823 | Overview >

### test

Virtual machine

Search Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Networking

Settings

Availability + scale

Security

Backup + disaster recovery

Operations

Monitoring

Automation

Help

Essentials

Resource group (move) : testvm

Status : Running

Location : Central India (Zone 1)

Subscription (move) : Azure Pass - Sponsorship

Subscription ID : 348ac279-0f10-424f-b35b-80035082612a

Availability zone : 1

Tags (edit) : Add tags

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : test

Operating system : Windows (Windows Server 2022 Datacenter Azure Edition)

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.7.41491.1095

Networking

Public IP address : 20.244.109.83 ( Network interface test354\_1 )

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

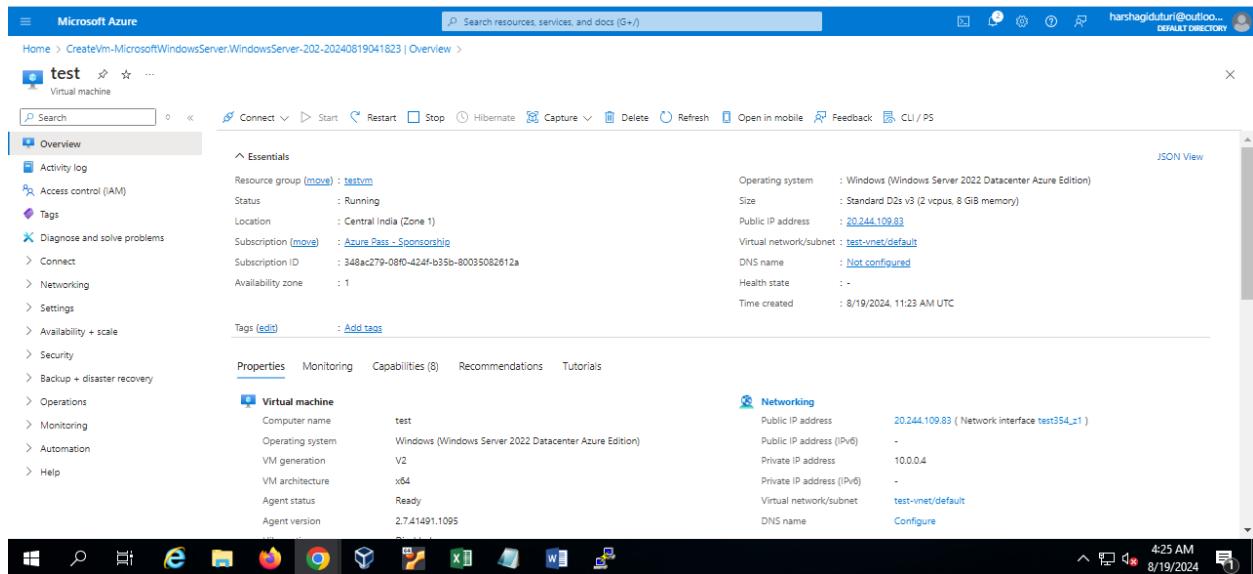
Private IP address (IPv6) : -

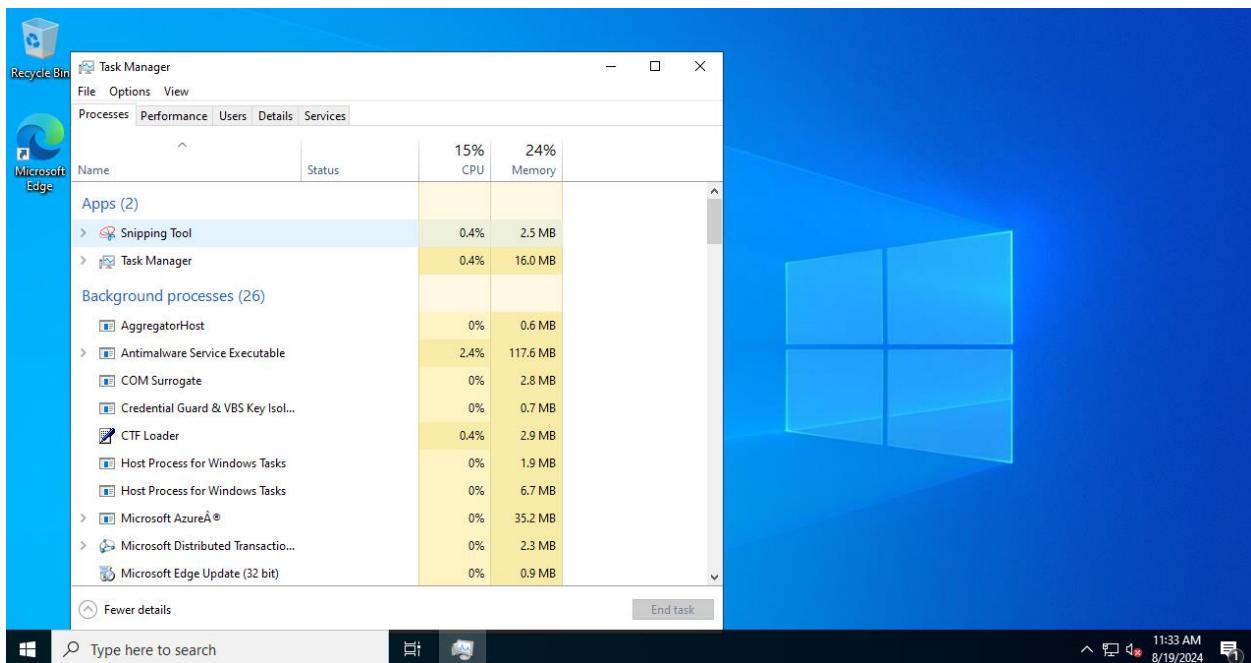
Virtual network/subnet : test-vnet/default

DNS name : Configure

JSON View

4:25 AM 8/19/2024

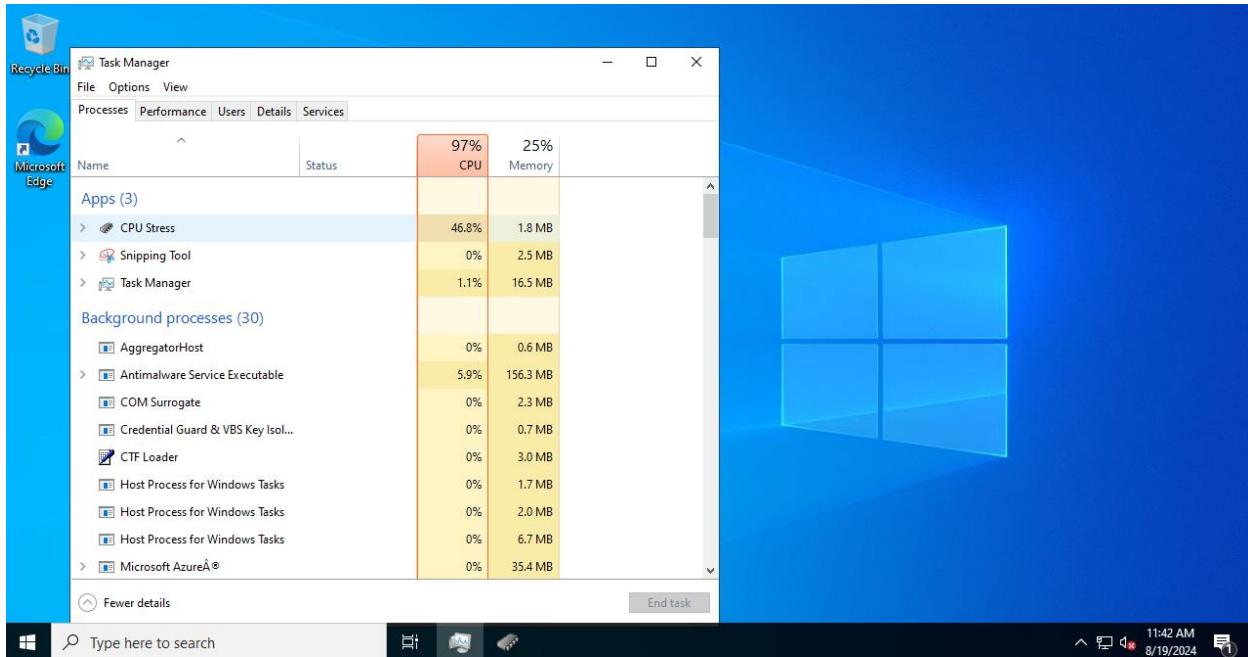




The screenshot shows the Microsoft Azure Metrics dashboard for a virtual machine named 'test'. The main chart displays the 'Avg Percentage CPU for test' over the last 24 hours. A tooltip for the chart lists the following metrics:

Metric Namespace	Metric	Aggregation
Virtual Machine Host	Percentage CPU	Avg
	Available Memory Bytes (Preview)	
	CPU Credits Consumed	
	CPU Credits Remaining	
	Data Disk Bandwidth Consumed Percentage	
	Data Disk IOPS Consumed Percentage	
	Data Disk Latency (Preview)	
	Data Disk Max Burst Bandwidth	
	Data Disk Max Write IOPS	
	Enable guest memory metrics	

The dashboard also includes options for 'New chart', 'Refresh', 'Share', 'Feedback', and 'Save to dashboard'. The left sidebar shows navigation links for 'Metrics' and other Azure services like 'Diagnose and solve problems', 'Insights', 'Logs', and 'Workbooks'.



A screenshot of the Microsoft Azure Metrics blade for a virtual machine named 'test'. The left sidebar shows navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Monitoring, Insights, Alerts, Metrics (which is selected), and Diagnostic settings. The main area displays a line chart titled 'Avg Percentage CPU for test' showing CPU usage over time. A significant spike in CPU usage is visible around 6 AM UTC on August 19, 2024, reaching nearly 100% usage.

Local Time: 8/18 5:06 PM - 8/19 5:06 PM (Auto...)

Percentage CPU (Avg), test | \$5.4495%

The screenshot shows a Microsoft Edge browser window with a pinned tab for "Focused" alerts. The main content area displays an alert from "Microsoft Azure" with the title "Fired:Sev3 Azure Monitor Alert Percentage CPU - test on test (microsoft.compute/virtualmachines) at 8/19/2024 12:04:31 PM". Below the alert summary are two buttons: "View the alert in Azure Monitor >" and "Investigate >". The "Summary" section lists the following details:

Alert name	Percentage CPU - test
Severity	Sev3
Monitor condition	Fired
Affected resource	test
Resource type	microsoft.compute/virtualmachines
Resource group	testvm
Monitoring service	Platform
Signal type	Metric
Fired time	August 19, 2024 12:04:31 UTC

The browser's taskbar at the bottom shows icons for various applications including Google Chrome, Microsoft Word, and Microsoft Excel.

The screenshot shows the Microsoft Outlook web interface. The left sidebar has 'Inbox' selected with 13 messages. The main area displays an email from 'Microsoft Azure' with the subject 'Fired:Sev3 Azure Mon...'. A detailed alert card is overlaid on the email preview, providing information about the alert's status, resource type, monitoring service, signal type, fired time, alert ID, and rule details. To the right, there's a 'Sponsored Stories' sidebar with two visible articles.

**Focused Other**

**Microsoft Azure**  
Fired:Sev3 Azure Mon... 12:05 PM  
Alert Fired at August 19, 2024 12:...

**Microsoft Azure**  
Resolved:Sev3 Azure ... 11:43 AM  
Alert Fired at August 19, 2024 11:...

**Microsoft Azure**  
Resolved:Sev3 Azure ... 11:42 AM  
Alert Fired at August 19, 2024 11:...

**Microsoft Azure**  
Fired:Sev3 Azure Mon... 11:29 AM  
Alert Fired at August 19, 2024 11:...

**Microsoft Azure**  
Fired:Sev3 Azure Mon... 11:27 AM

Affected resource	test
Resource type	microsoft.compute/virtualmachines
Resource group	testvm
Monitoring service	Platform
Signal type	Metric
Fired time	August 19, 2024 12:04 UTC
Alert ID	679232dc-ee7c-4292-90da-df8dc593f000
Alert rule ID	<a href="https://portal.azure.com/#resource/subscriptions/348ac279-080-424b-b3b-80035082612/resourcegroups/testvm/providers/Microsoft.insights/metricAlerts/PercentageCPU-test">https://portal.azure.com/#resource/subscriptions/348ac279-080-424b-b3b-80035082612/resourcegroups/testvm/providers/Microsoft.insights/metricAlerts/PercentageCPU - test</a>

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