

**EX. NO: 6**

**DATE:**

## **PUBLIC CLOUD**

### **CREATING AN INSTANCE IN MICROSOFT AZURE**

**AIM:**

Develop a simple application to understand the concept of PAAS using Microsoft Azure

**PROCEDURE:**

1. Sign in to the Azure portal
2. Select Azure SQL on the left menu of the Azure portal.
3. Select +Add to open the Select SQL deployment option page.
4. Select Create.

**OUTPUT:**

## Welcome to Azure!

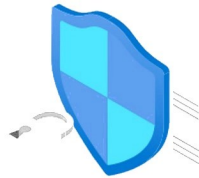
Don't have a subscription? Check out the following options.



### Start with an Azure free trial

Get \$200 free credit toward Azure products and services, plus 12 months of popular free services.

[Start](#)



### Manage Microsoft Entra ID

Manage access, set smart policies, and enhance security with Microsoft Entra ID.

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### Access student benefits

Get free software, Azure credit, or access Azure Dev Tools for Teaching after you verify your academic status.

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## Azure services



Create a resource



Quickstart Center



Azure AI services



Kubernetes services



Virtual machines



App Services



Storage accounts



SQL databases



Azure Cosmos DB



More services

- Create a resource
- Home
- Dashboard
- All services
- FAVORITES
- All resources
- Resource groups
- App Services
- Function App
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Microsoft Entra ID
- Monitor
- Advisor
- Microsoft Defender for Cloud

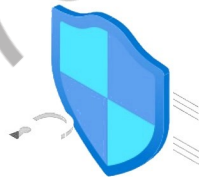
## Welcome to Azure!

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SQL databases

[+ Create](#) [View](#)



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## Azure services



Quickstart Center



Azure AI services



Kubernetes services



Virtual machines



App Services



Storage accounts



SQL databases



Azure Cosmos DB



More services

Free services - Microsoft Azure

Services that include monthly free amounts for 12 months

For 12 months after signup, new customers can use up to the specified monthly free amount of each of these services without getting charged. **Service usage is billed at the pay-as-you-go rate after you reach the monthly limit.** To learn more, see the [Azure free account FAQ](#).

| Service                       | Category  | Free Amount         | Description  | Create |
|-------------------------------|-----------|---------------------|--|--------|
| Windows Virtual Machine       | COMPUTE   | 750 hours           | each of B1s and B2ats v2 (AMD-based) burstable VMs.                                    | Create |
| Linux Virtual Machine         | COMPUTE   | 750 hours           | each of B1s and B2ats v2 (AMD-based) burstable VMs.                                    | Create |
| Azure Managed Disks           | STORAGE   | 64 GB x 2           | (P6) solid state drives SSD storage, plus 1 GB snapshot and 2 million I/O operations   | Create |
| Azure Blob Storage            | STORAGE   | 5 GB                | locally redundant storage (LRS) hot block with 20,000 read and 10,000 write operations | Create |
| Azure Files                   | STORAGE   | 100GB               |  | Create |
| Key Vault                     | SECURITY  | 10,000 transactions |  | Create |
| Azure Media Services Encoding | MEDIA     | 20 output minutes   |  | Create |
| Azure Database for MySQL      | DATABASES | 750 hours           |  | Create |

Flexible server - Microsoft Azure

Create an Azure Database for MySQL server.

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:

Server details

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

Server name:

Region:

Availability zone:

Authentication:

Estimated costs

- Compute Sku** USD -/month
- Storage** USD -/month  
Storage selected - GiB (USD - per GiB)
- 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

Next: Tags >

Create Your Azure Free Account

Flexible server - Microsoft Azure

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

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

harishhrpc@gmail.com

DEFAULT DIRECTORY

Home > Free services >

## Flexible server

Microsoft

⚠ Server names, networking connectivity method, zone redundant HA and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

Basics

Networking

Security

Tags

Review + create

Create an Azure Database for MySQL flexible server. [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 \*

Select a subscription

Resource group \*

cloud-computing-lab

Create new

Server details

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

Server name \*

CC-Experiment

Region \*

Asia Pacific (South India)

OK

Cancel

Review + create

Next: Networking

Estimated costs

Estimating cost

Compute Sku

Standard B1ms

1487.94

Storage

Storage selected: undefined GiB (USD -- per GiB)

20 x 10.898503

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 and different regions will incur additional charges. Any inbound data transfer is free.

## Flexible server

Microsoft

Basics Tags Review

Create an Azure Database for MySQL server

### 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 for Students  
Resource group (RG) (New) cloud-computing-lab

### Server details

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

Server name cloud-computing-experiment  
Region Asia Pacific (South India)  
Availability zone 1

### Authentication

Admin username admin

Review + create Next: Tags >

### Estimated costs

Compute Sku INR 1487.94/month

Standard B1ms 1487.94

Storage INR 217.97/month

Storage selected: 20 GiB (INR 20 x 10.898503 per GiB) 10.898503

### 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 and different regions will incur additional charges. Any inbound data transfer is free.

## Flexible server

Microsoft

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

Server name  ✓

Region  ✓

Availability zone  ✓

**Authentication**

Admin username  ✓

Password  ✓

Confirm password  ✓

**Workload details** (All server workload types)

Workload type ☐ Dev/Test ☐ Standard ☐ Enterprise

Choose one of these workload types to quickly configure the server based on your needs. You can modify the configuration after creation.

☐ Add firewall rule for current IP address

### High availability

Same zone and zone-redundant high availability provide additional server resilience in the event of a failure.

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

million request increments. [View a note](#)

### Backup Retention

Backup retention is billed based on additional storage used for retaining backups. [View a note](#)

### Bandwidth

For outbound data transfer across services in different regions will incur additional charges. Any inbound data transfer is free. [View a note](#)

**Estimated total** INR 1705.91/month

Prices reflect an estimate only. The actual price may vary. Final charges will appear in your local currency in cost analysis and billing views.

## Flexible server

Microsoft

Flex server cannot run a specific application. Flex server is not currently running processing.

[Back](#) [Tags](#) [Review](#)

[Go to resource](#)

Estimated server creation time completed ✓

Key information

Admin username: admin  
By Microsoft

Key

|                         |   |
|-------------------------|---|
| Subscription            | Azure for Students  |
| Resource group          | cloud-computing-001                                       |
| Server name             | cloud-computing-experiment                                |
| Server admin login name | admin   |
| Location                | South India   |
| Availability zone       | South India - 1   |
| High availability       | Disabled  |
| Workload type           | Dev/Test  |
| Compute + storage       | Standard B1ms, 100GB RAM, 200 GB storage, Auto scale IOPS |
| Backup + redundancy     | Zone-redundant  |

Tags

[Create](#) [Previous: Tags](#)

### Estimated costs

|   |                   |
|---|-------------------|
| <b>Compute SKUs</b>   | INR 1487.94/month |
| Standard B1ms   | 1487.94           |
| <b>Storage</b>  | INR 217.97/month  |
| Storage selected: Standard HDD  | 20 x 10.895593    |
| <b>Auto scale IOPS</b>  |                   |
| Auto scale IOPS is billed on usage per million request increments.  |                   |
| <b>Backup Retention</b>   |                   |
| Backup retention is billed based on additional storage used for retaining backups.  |                   |
| <b>Bandwidth</b>  |                   |
| For outbound data transfer across services in different regions will incur additional charges. Any inbound data transfer is free. |                   |
| <b>Estimated total</b>  | INR 1705.91/month |

Prices reflect an estimate only. The actual price may vary. Final charges will appear in your local currency in cost analysis and billing views.

Microsoft

## Microsoft.SQLDatabase.newDatabaseNewServer\_9171258a41d04f18b86c5 | Overview

Deployment

[Save](#) [Delete](#) [Redeploy](#) [Download](#) [Refresh](#)

### Overview

Inputs

Outputs

Template

### ✓ Your deployment is complete

**Deployment name** Microsoft.SQLDatabase.newDatabaseNewSer  
**Subscription** Azure for Students  
**Resource group** cloud-computing-001

**Start time** 1/6/2023 6:37:49 PM  
**Correlation ID** 8d750ebd-564e-46af-aec0-7b

#### 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. [Setup cost alerts >](#)



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**RESULT:**

Thus a simple application to understand the concept of PAAS using Microsoft Azure is developed.