

**EX. NO: 6****DATE:**

## **PUBLIC CLOUD**

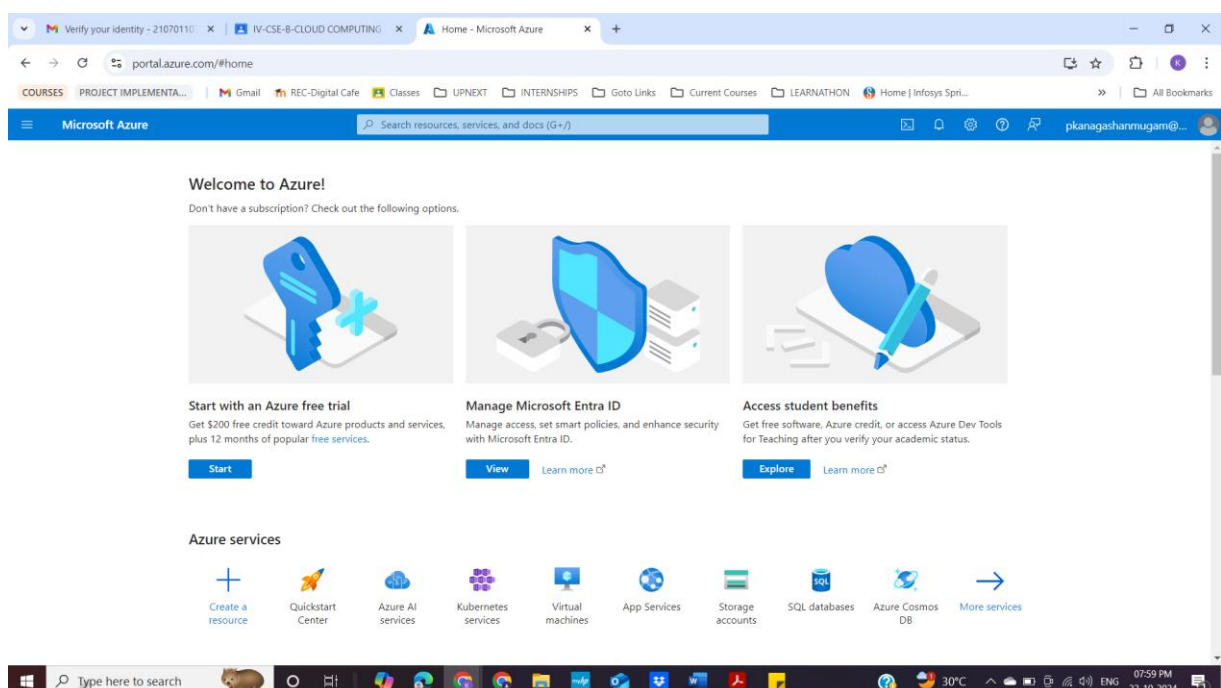
### **CREATING AN INSTANCE IN MICROSOFT AZURE**

**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:**

portal.azure.com/#home

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

### SQL databases

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

**Description**  
Utilize a fully managed relational database service, perfect for accelerating application development and simplifying management tasks.

**Free training from Microsoft**  
 Provision an Azure SQL database to store a...  
 5 units - 50 min  
 Secure your Azure SQL Database [Get started](#)  
 8 units - 1 hr 7 min  
 Scale multiple Azure SQL Databases with SQL...  
 7 units - 39 min

**Useful links**  
 Overview [Get started](#)  
 Documentation [Get started](#)

**Manage Microsoft Entra ID**  
 Manage access, set smart policies, and enhance security with Microsoft Entra ID.  
[View](#) [Learn more](#)

**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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Kubernetes services Virtual machines App Services Storage accounts SQL databases Azure Cosmos DB [More services](#)

portal.azure.com/#view/Microsoft\_Azure\_Billing/FreeServicesBlade

### Free services

[budget needs. Learn more](#) [Create](#)

[budget needs. Learn more](#) [Create](#)

[simplified management. Learn more](#) [Create](#)

**Azure Files STORAGE**

100GB  
of LRS transaction optimized, hot, and cool files. 2 million read, list, and other file operations.  
Migrate to simple, distributed, cross-platform file storage without changing code. [Learn more](#)

[Create](#)

**Key Vault SECURITY**

10,000 transactions  
RSA 2048-bit keys or secret operations, Standard tier.  
Safeguard and maintain control of keys and other secrets. [Learn more](#)

[Create](#)

**Azure Media Services Encodin... MEDIA**

20 output minutes  
Standard encoder video or audio source file encoding.  
Index, package, protect, and stream video and audio at scale. [Learn more](#)

[Create](#)

**Azure Database for MySQL DATABASES**

750 hours  
of Flexible Server—Burstable B1MS Instance, 32 GB storage, and 32 GB backup storage  
Host a fully managed, scalable MySQL database in Azure. [Learn more](#)

[Create](#)

**Azure Database for PostgreSQL DATABASES**

750 hours  
of Flexible Server—Burstable B1MS Instance, 32 GB storage, and 32 GB backup storage

[Create](#)

**Azure Cosmos DB DATABASES**

400 RU/s provisioned throughput  
With 25 GB of storage

[Create](#)

**Bandwidth (Data Transfer) NETWORKING**

15 GB  
outbound

[Create](#)

**AI Vision AI + MACHINE LEARNING**

5,000  
transactions for each S1, S2, and S3 tier

[Create](#)

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

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### Select Azure Database for MySQL deployment option

Microsoft

Feedback

Azure Database for MySQL - Single Server is scheduled for retirement by September 16, 2024. [Learn More](#)

#### 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.

[Quick Create](#) [Advanced Create](#)

**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](#)

portal.azure.com/?Microsoft\_Azure\_Education\_correlationId=8acdb650-eb2b-413d-9db3-d97fb9559c4d&Microsoft\_Azure\_Education\_newA4E=true&Microsoft\_Azure\_Education\_asoSubG...

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### 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 \* (New) 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 \* cloud-computing-experiment

Region \* (Asia Pacific) South India

Availability zone \* No preference

#### Authentication

Admin username \* admin

#### Estimated costs

**Compute Sku** INR 1487.94/month

Standard\_B1ms 1487.94

**Storage** INR 217.97/month

Storage selected 20 GiB (INR 10.898503 per GiB) 20 x 10.898503 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 in different regions will incur additional charges. Any inbound data

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

Microsoft Azure

### 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** (Compare workload type)

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.

**Estimated total** INR 1705.91/month

Prices reflects an estimates only. View Azure pricing calculator. Final charges will appear in your local currency in cost analysis and billing views.

**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 additional charges. Any inbound data transfer is free. Learn more

**Review + create** **Next : Tags >**

Microsoft Azure

### Flexible server

Microsoft

Server name cannot be changed after server is created. Review these options carefully before provisioning.

**Basics** **Tags** **Review**

**Creation time**

Estimated Server Creation Time (in minutes) 5

**Product details**

Azure Database for MySQL by Microsoft

**Basics**

Subscription Azure for Students

Resource group cloud\_computing\_lab

Server name cloud-computing-experiment

Server admin login name admin

Location South India

Availability zone No preference

High availability Disabled

MySQL version 8.0

Workload type Dev/Test

Compute + storage Burstable, 81ms, 1 vCores, 2 GiB RAM, 20 GiB storage, Auto scale IOPS

Backup redundancy Locally redundant

**Estimated costs**

**Compute Sku** INR 1487.94/month

Standard, 81ms 1487.94

**Storage** INR 217.97/month

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

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**Estimated total** INR 1705.91/month

Prices reflects an estimates only. View Azure pricing calculator. Final charges will appear in your local currency in cost analysis and billing views.

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer\_9171258a41d04f18b86c5 | Overview

Deployment

Search << Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseNewSer... Start time: 1/6/2023, 6:37:49 PM  
Subscription: JJ Azure Subscription Correlation ID: 8d750ebd-564e-46af-aecc-7b  
Resource group: sqldatabasedemo

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 >

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## RESULT:

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