

Amazon S3: Step-by-Step Using AWS Educate

1. Sign Up / Log In to AWS Educate

- Go to: <https://awseducate.com>
 - Log in with your student credentials.
 - If new, click on **“Join AWS Educate”**, choose **Student**, and complete the form.
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2. Access AWS Console via AWS Educate

- After logging in, click on **“AWS Console”** under the **“Your Classrooms”** section.
 - This opens the **AWS Management Console** in a new tab.
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3. Search and Open S3

- In the search bar at the top of the AWS Console, type **“S3”**.
 - Click on **“S3 (Scalable Storage in the Cloud)”** from the results.
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4. Create an S3 Bucket

- Click the **“Create bucket”** button (top-right).
- Fill in the required details:
 - **Bucket name:** Must be globally unique (e.g., studentlearn-xyz-bucket)
 - **Region:** Choose the region (e.g., Asia Pacific (Mumbai))

Other Settings:

- Leave default settings for now (you can change public access, versioning, encryption later).
 - Click **“Create bucket”** at the bottom.
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✓ 5. Upload a File to Your Bucket

- Click on your newly created bucket name.
 - Click **“Upload”**, then:
 - Click **“Add files”** and select a file from your computer (e.g., image, PDF).
 - Click **“Upload”**.
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✓ 6. Make the File Public (Optional)

- After upload, select the file.
 - Click on **“Actions”** > **“Make public”** (if enabled).
 - You will get a **public URL** to access your file from anywhere.
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✓ 7. View or Download the File

- Click on the uploaded file in the bucket.
 - You’ll see a **“Object URL”** – click it to open/download the file.
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✓ 8. Delete Objects or Bucket

- To delete files: Select them and choose **“Delete”**.
 - To delete the entire bucket: Go back to **S3 home**, select your bucket, and click **“Delete”**.
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What You Just Learned:

- How to **create, upload, share, and manage** files in Amazon S3 using AWS Educate.

Amazon RDS: Step-by-Step Using AWS Educate

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✓ 3. Search and Open RDS (Relational Database Service)

- In the AWS Console, use the search bar at the top and type **“RDS”**.
 - Click on **“RDS – Relational Database Service”** from the results.
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✓ 4. Create an RDS Database Instance

- Click on **“Create database”**.
- Choose **“Standard Create”**.
- Select a **Database Engine** (e.g., MySQL, PostgreSQL, or MariaDB).

⚙ Database Settings:

- **DB Instance Identifier:** Choose a name for your database (e.g., student-db).
- **Master Username:** Set a username (e.g., admin).
- **Master Password:** Set a strong password and confirm it.

⚙ DB Instance Size and Storage:

- Choose **“Free tier”** if available (e.g., db.t2.micro instance).
- Set **Storage type** to **General Purpose (SSD)**.

⚙ VPC & Network Settings:

- Leave default VPC and network settings for now.
- Make sure the database is **publicly accessible** if you want to connect from outside AWS.

Backup and Monitoring:

- Keep backup settings as default.
 - You can enable monitoring, but it's optional.
 - Click on **“Create database”**.
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5. Connect to the Database

- After the database is created, go to the **RDS Dashboard**.
- Select your newly created DB instance.
- Copy the **Endpoint** (e.g., student-db.c8h7t6vkjf8r.us-west-2.rds.amazonaws.com) and **Port** (default: 3306 for MySQL).

Using MySQL Workbench (or any database client):

1. Open MySQL Workbench.
 2. Click **New Connection**.
 3. In **Hostname**, paste the copied endpoint.
 4. Use **Username** (e.g., admin) and the **Password** you set earlier.
 5. Click **Test Connection** and then **OK**.
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6. Create and Manage Database Tables

- Once connected, create a new database if needed:

sql

```
CREATE DATABASE studentdb;
```

- Create a table inside the database:

Sql

```
USE studentdb;  
  
CREATE TABLE students (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(100),  
    age INT  
);
```

✅ 7. Insert Data into the Table

- Insert some test data into the table:

sql

```
INSERT INTO students (name, age) VALUES ('John Doe', 22);  
INSERT INTO students (name, age) VALUES ('Jane Smith', 21);
```

✅ 8. Query Data from the Table

- Query the data to verify:

Sql

```
SELECT * FROM students;
```

✅ 9. Delete Database or Tables

- To delete a table:

sql

```
DROP TABLE students;
```

- To delete the entire database:

sql

```
DROP DATABASE studentdb;
```
