



# Guidelines - How to Use This Web App

Welcome to the AWS Automation Dashboard 👏



This tool helps you manage essential AWS services (EC2, RDS, S3) through a user-friendly interface.

#### **Prerequisites**

- ✓ You must have a valid AWS account.
- ✓ IAM credentials with permissions for EC2, RDS, and S3.
- env file set up with AWS\_ACCESS\_KEY\_ID, AWS\_SECRET\_ACCESS\_KEY, and AWS\_DEFAULT\_REGION.

### Step 1: Login

- Enter your **username and password** in the sidebar.
- On successful login, you'll be redirected to the main dashboard.

## Step 2: Navigate Sections

Use the left sidebar menu to explore:

- A Home (Main EC2, RDS, and S3 interface)
- Guidelines (This help section)
- Project Applications (Use cases for this tool)

#### EC2 (Elastic Compute Cloud)

- Launch EC2 Instance: Automatically creates a t2.micro instance with pre-configured settings.
- Terminate Instance: Requires you to input the instance ID (e.g., i-xxxxxxxxxxxxxxx) to delete.
- Tip: Use AWS Console or CLI to get the instance ID if needed.

## **RDS (Relational Database Service)**

- Create DB Instance: Launches a MySQL instance.
- Delete DB Instance: Removes the running database.
- Create Snapshot: Takes a backup (snapshot) of the RDS instance.
- Modify DB Class: Upgrade/downgrade database size (e.g., t3.micro → t3.medium).

**Restore Snapshot**: Recreate DB from snapshot if needed.



⚠ Note: Some changes may take a few minutes due to AWS provisioning time.



#### S3 (Simple Storage Service)

- **Upload Files**: Choose an existing S3 bucket and upload any file from your computer.
- Use this for storing:
  - Images
  - o PDFs or Docs
  - Backups
  - Dataset files

## **Best Practices**

- Always delete unused instances to avoid charges.
- Store IAM credentials securely and never push them to GitHub.
- Periodically create RDS snapshots if working on a live DB.

🎓 This dashboard simplifies repetitive cloud management tasks and enhances learning and development experience.

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