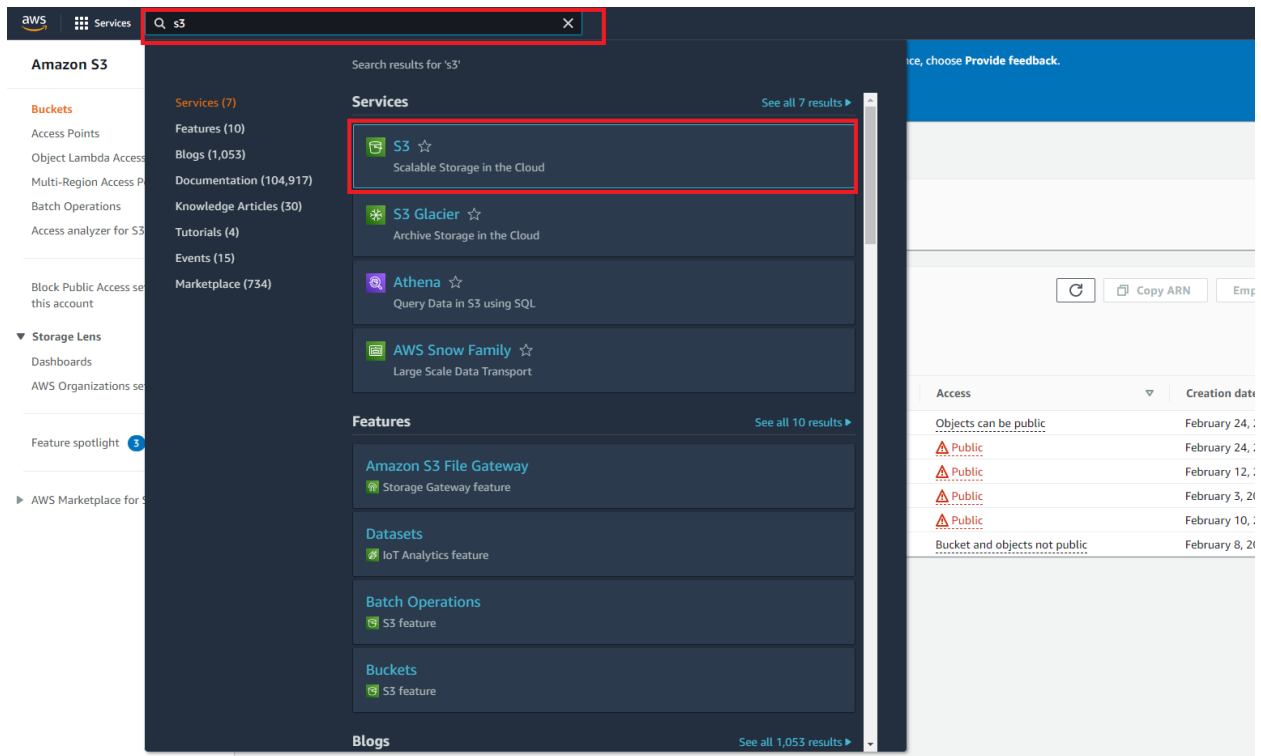
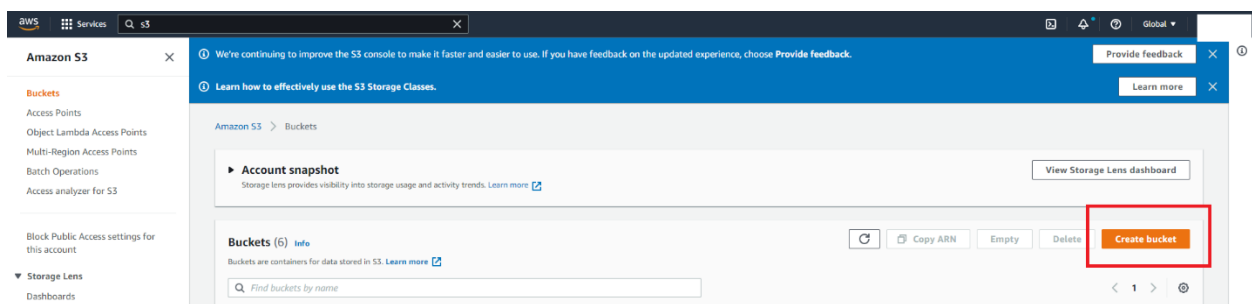


1. Recreate the database by running the below commands:  
drop database if exists online\_store\_db;  
create database online\_store\_db;
2. Clone the project from GitHub:  
git clone [git@github.com:achiever102/onlineshop.git](https://github.com/achiever102/onlineshop.git)
3. Create an AWS S3 bucket to store application images:
  - Login to AWS
  - Go to S3 service



- Click on Create Bucket:





- Click on the created bucket:

The screenshot shows the Amazon S3 console interface. On the left is a navigation sidebar with options like Buckets, Access Points, and Storage Lens. The main content area displays a list of buckets. A table with columns 'Name', 'AWS Region', 'Access', and 'Creation date' is shown. The first row, representing the bucket 'appbucket12029883' in the 'US East (N. Virginia) us-east-1' region with 'Objects can be public' access, is highlighted with a red rectangular box.

- Click on Permissions:

This screenshot shows the 'Permissions' tab selected for the bucket 'appbucket12029883'. The 'Permissions overview' section indicates 'Access: Objects can be public'. Below this, the 'Block public access (bucket settings)' section shows 'Block all public access' is currently 'Off' with a warning icon. A red box highlights the 'Permissions' tab in the top navigation bar of the bucket settings.

- Scroll down to bucket policy and click on edit:

The screenshot displays the 'Bucket policy' section for the bucket. It shows a message 'No policy to display.' and an 'Edit' button. A red box highlights the 'Edit' button in the top right corner of the policy section.

- Copy the bucket ARN:

Amazon S3

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

Amazon S3 > Buckets > appbucket12029883 > Edit bucket policy

### Edit bucket policy

**Bucket policy**  
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

**Bucket ARN**  
arn:aws:s3::appbucket12029883

**Policy**

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "Statement1",
6       "Principal": {},
7       "Effect": "Allow",
8       "Action": [],
9       "Resource": []
10    }
11  ]
12 }
```

**Edit statement**  
**Statement1** Remove

**1. Add actions**  
Choose a service

**Available**  
AMP  
API Gateway  
API Gateway V2  
Access Analyzer  
Account  
Activate  
Alexa for Business  
Amplify  
Amplify Admin  
Amplify UI Builder

- Replace the existing policy with the below and make sure to replace the highlighted ARN with yours:

Amazon S3

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

Amazon S3 > Buckets > appbucket12029883 > Edit bucket policy

### Edit bucket policy

**Bucket policy**  
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

**Bucket ARN**  
arn:aws:s3::appbucket12029883

**Policy**

```
1 {
2   "Id": "Policy1648556313478",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1648556313474",
7       "Action": "s3:*",
8       "Effect": "Allow",
9       "Resource": "arn:aws:s3::appbucket12029883/*",
10      "Principal": ""
11    }
12  ]
13 }
```

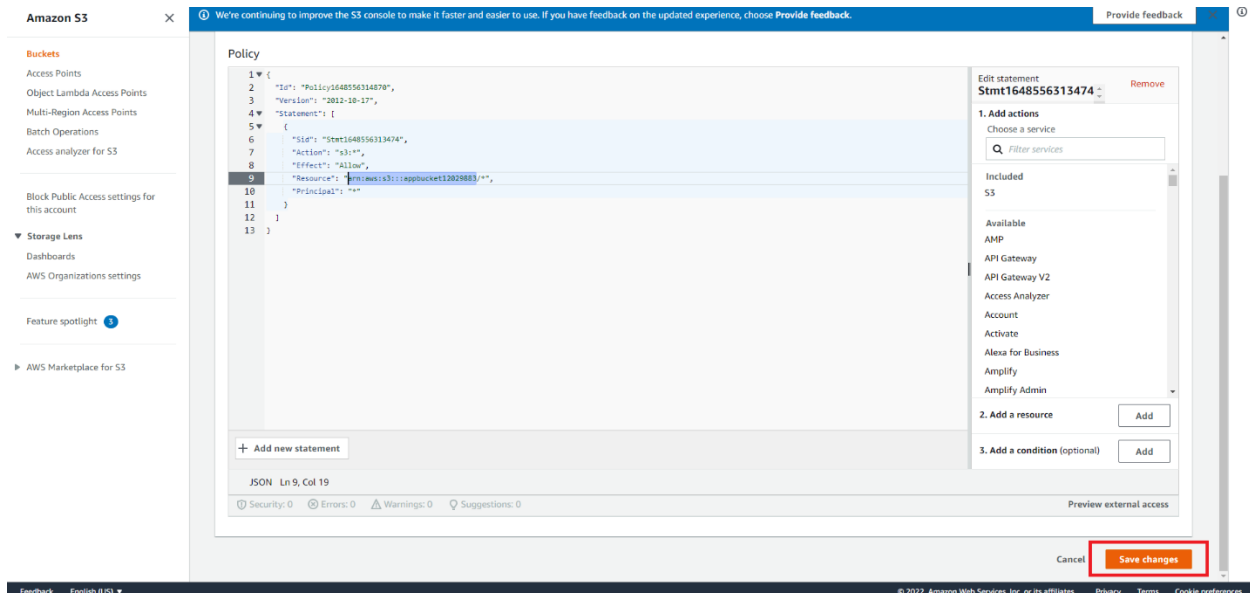
**Edit statement**  
**Stmt1648556313474** Remove

**1. Add actions**  
Choose a service

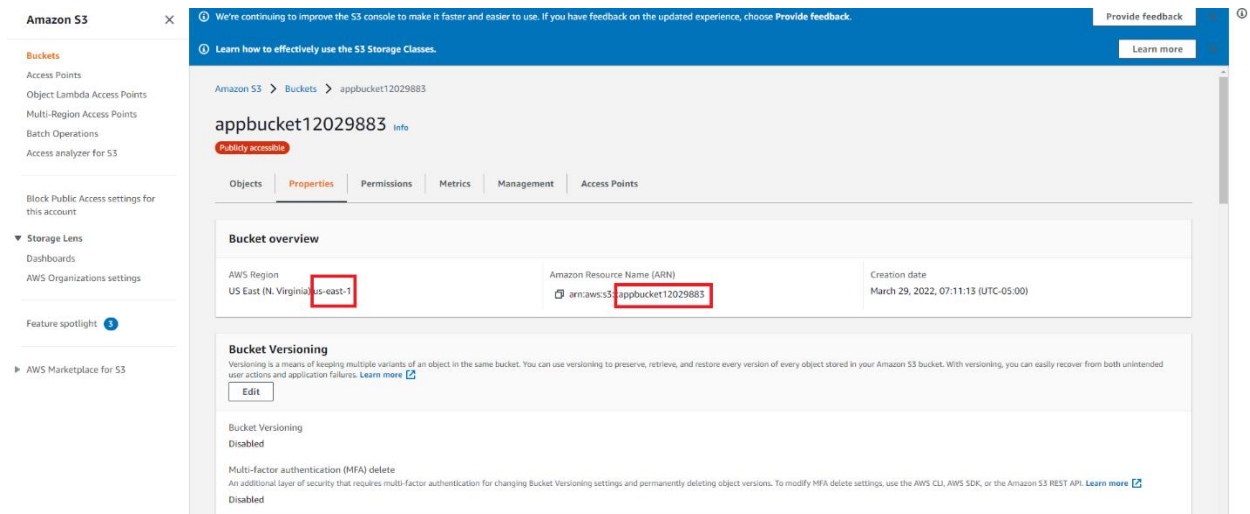
**Included**  
S3

**Available**  
AMP  
API Gateway  
API Gateway V2  
Access Analyzer  
Account  
Activate  
Alexa for Business

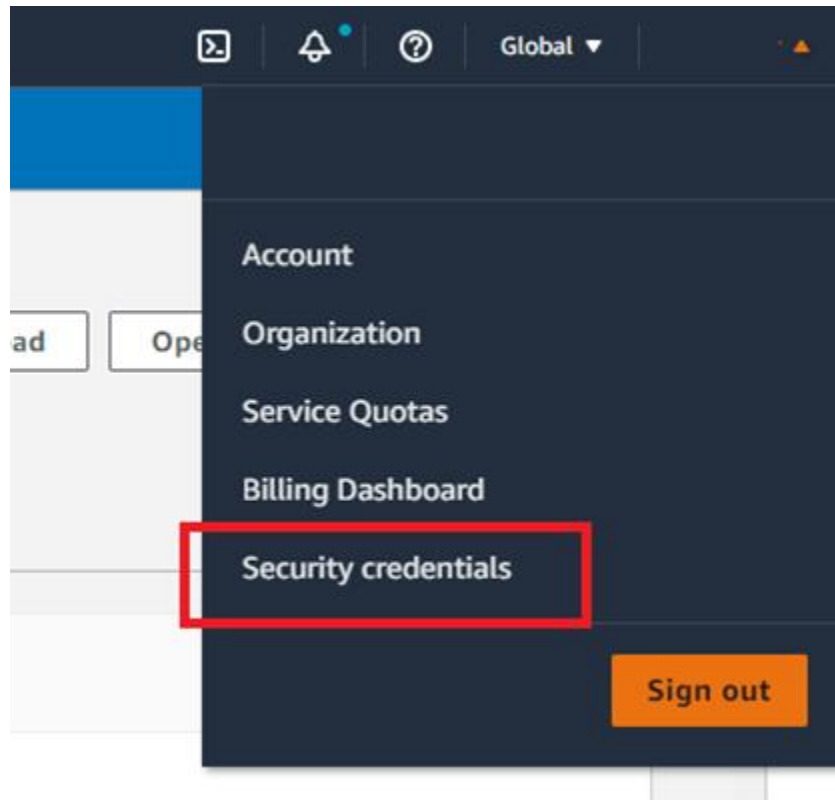
- Click on save changes:



- Go to bucket properties and copy the bucket region and bucket name:



- Create AWS access key:
  - Click on the user's drop down list and click on Security Credentials:



- Click on create new access key:

**Identity and Access Management (IAM)**

- Dashboard
- Access management
  - User groups
  - Users
  - Roles
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
  - Archive rules
  - Analizers
  - Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

Search IAM

### Your Security Credentials

Use this page to manage the credentials for your AWS account. To manage credentials for AWS Identity and Access Management (IAM) users, use the [IAM Console](#).

To learn more about the types of AWS credentials and how they're used, see [AWS Security Credentials](#) in AWS General Reference.

- ▲ Password
- ▲ Multi-factor authentication (MFA)
- ▼ Access keys (access key ID and secret access key)
 

Use access keys to make programmatic calls to AWS from the AWS CLI, Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time.

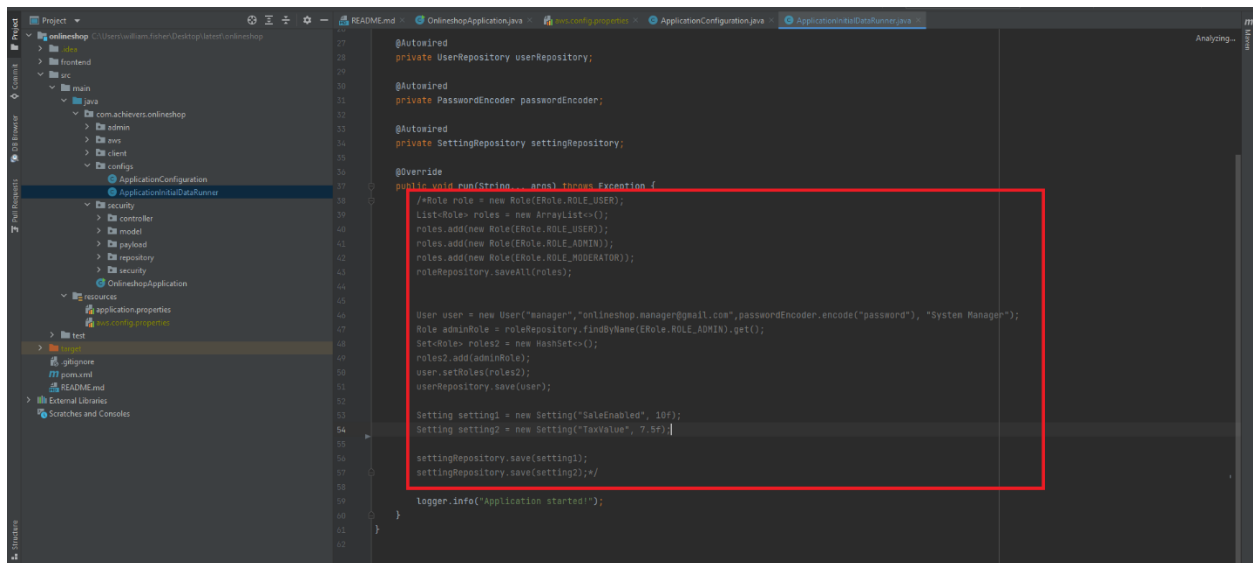
For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation.

**If you lose or forget your secret key, you cannot retrieve it. Instead, create a new access key and make the old key inactive. [Learn more](#)**

Created	Access Key ID	Last Used	Last Used Region	Last Used Service	Status	Actions
<div>Create New Access Key</div> <p>Root user access keys provide unrestricted access to your entire AWS account. If you need long-term access keys, we recommend creating a new IAM user with limited permissions and generating access keys for that user instead. <a href="#">Learn more</a></p>						
- ▲ CloudFront key pairs
- ▲ X.509 certificate
- ▲ Account identifiers

- Open the downloaded CSV file and copy the access key and secret key.

4. Open the backend project in IntelliJ and create a file with name `aws.config.properties` in the directory: `src/main/resources` then add the below parameters to the file:  
`accesskey=`access key from the downloaded file  
`secretKey=`secret key from the downloaded file  
`bucketName=`bucket name  
`bucketUrl=https://`bucket-name.s3.region`.amazonaws.com/`  
`region=`region
5. To insert the application initial data into the database (manager user username and password in addition to ACLs), uncomment the below lines in the backend class `ApplicationInitialDataRunner.java`



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6. Download and install JDK 11
7. Start the backend project in IntelliJ
8. Comment the same lines out. You just need to run this script once.
9. Start the frontend project in VSCode and run the commands:
  - `npm install`
  - `npm start`
10. you can login to the application using the manager user username and password:  
manager/password