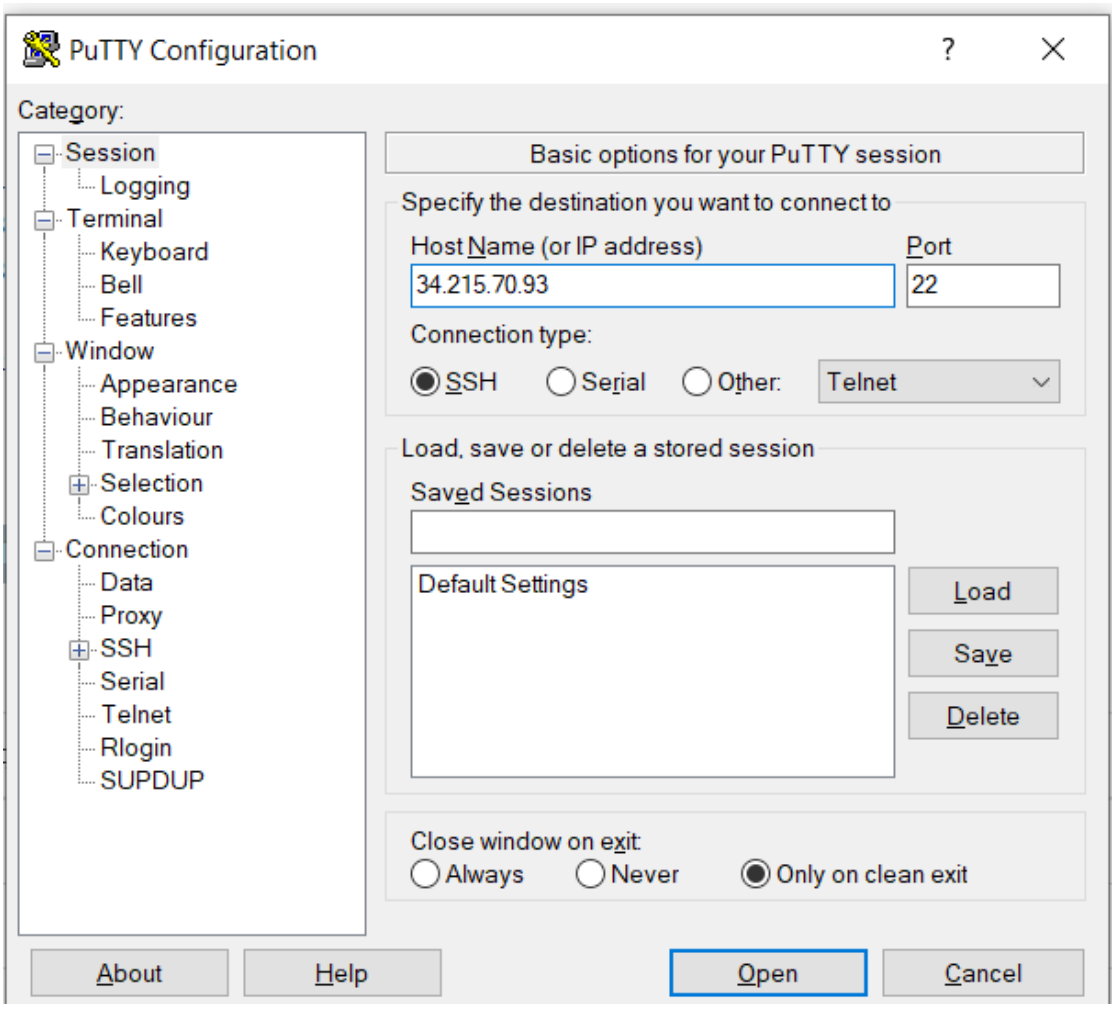
Create a Website on S3

- Create an Amazon Simple Storage Service (Amazon S3) bucket.
- Create a new AWS Identity and Access Management (IAM) user that has full access to the Amazon S3 service.
- Upload files to Amazon S3 to host a simple website for the Café & Bakery.
- Create a batch file that can be used to update the static website when you change any of the website files locally.

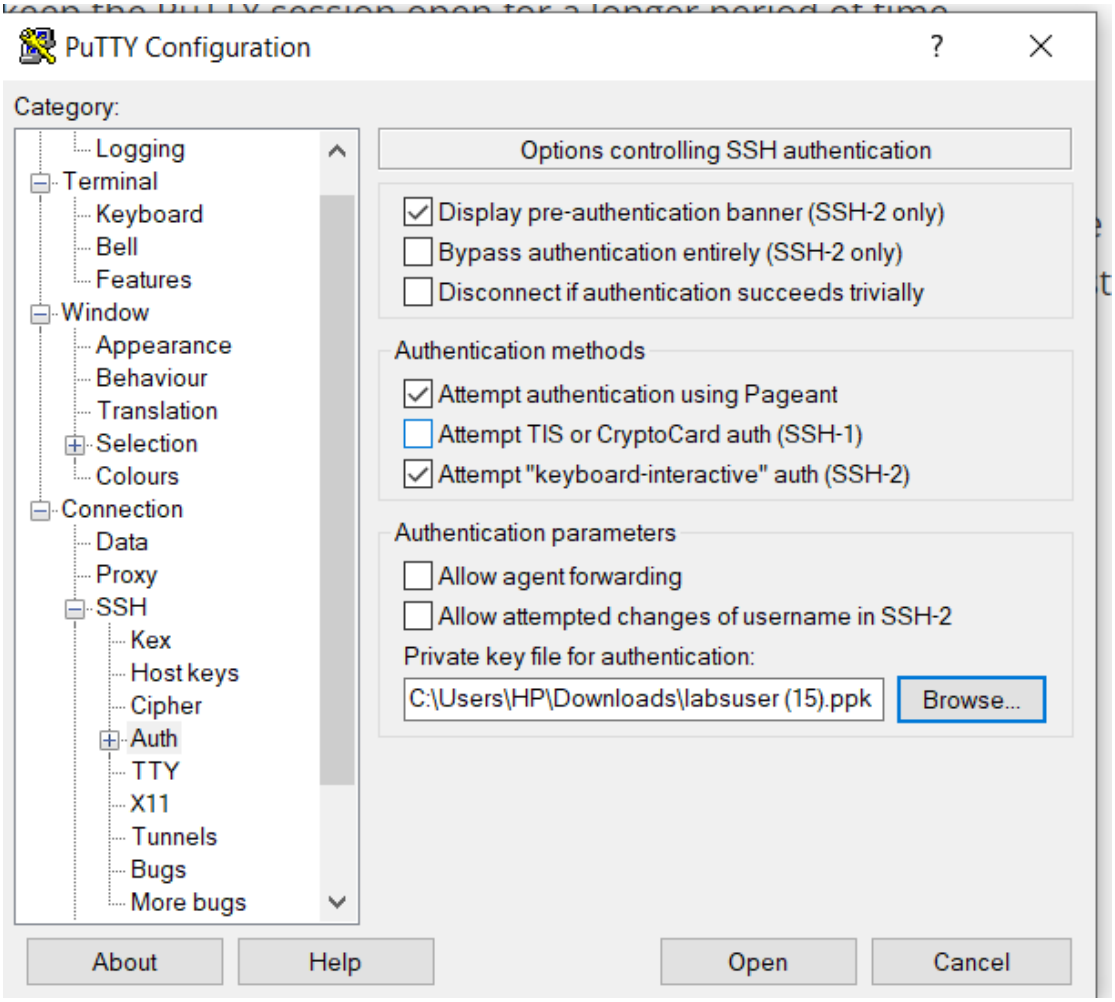
Using SSH to Connect

1. use **PuTTY** to SSH to Amazon EC2 instances

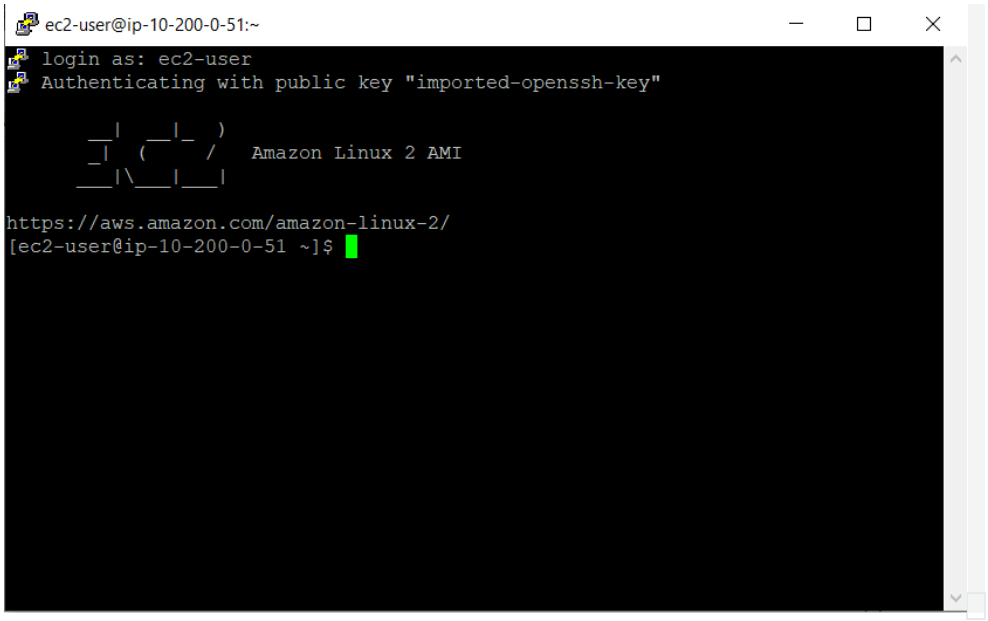
Copy and paste the **IPv4 Public IP address** for the instance



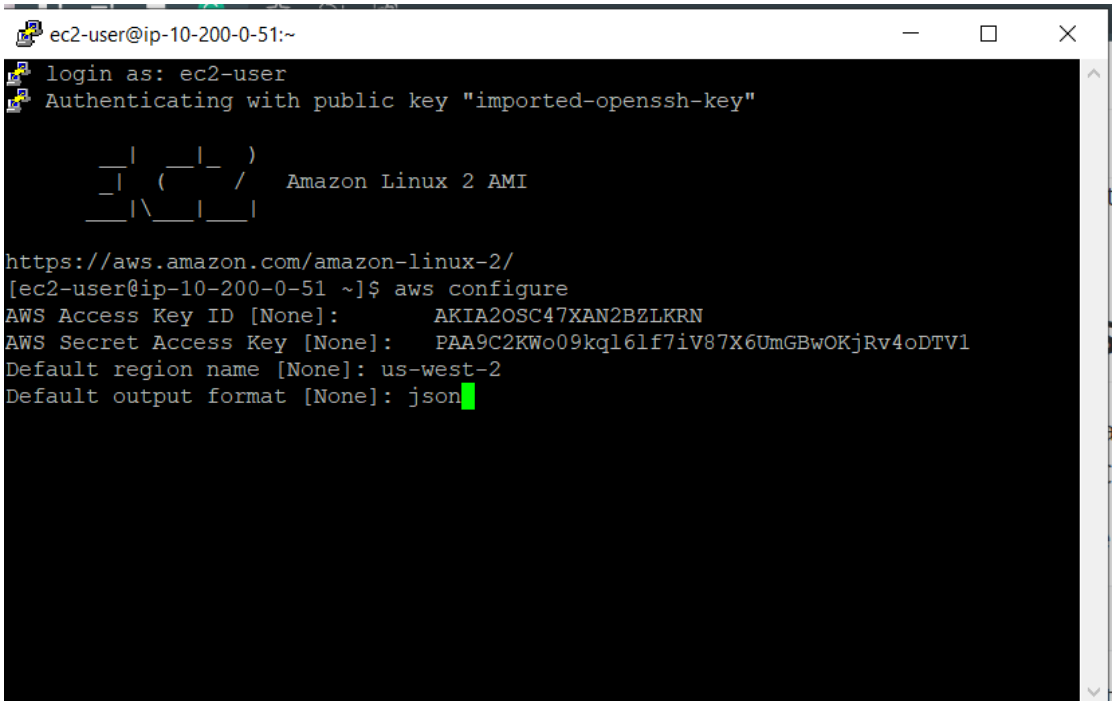
2. Add SSH key file:



3. **login as** ec2-user

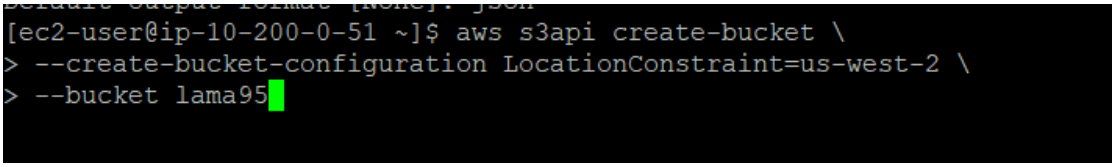


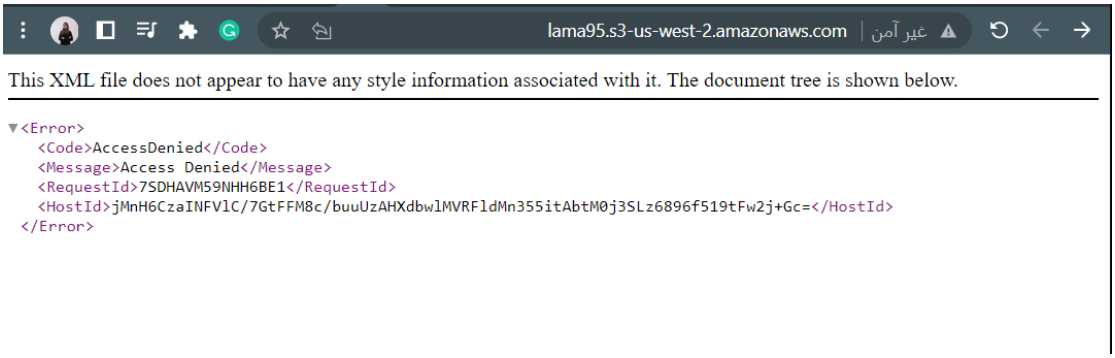
4. Update the AWS CLI software with the credentials.



Create an S3 bucket

aws s3api create-bucket --create-bucket-configuration LocationConstraint=us-west-2 --bucket lama95





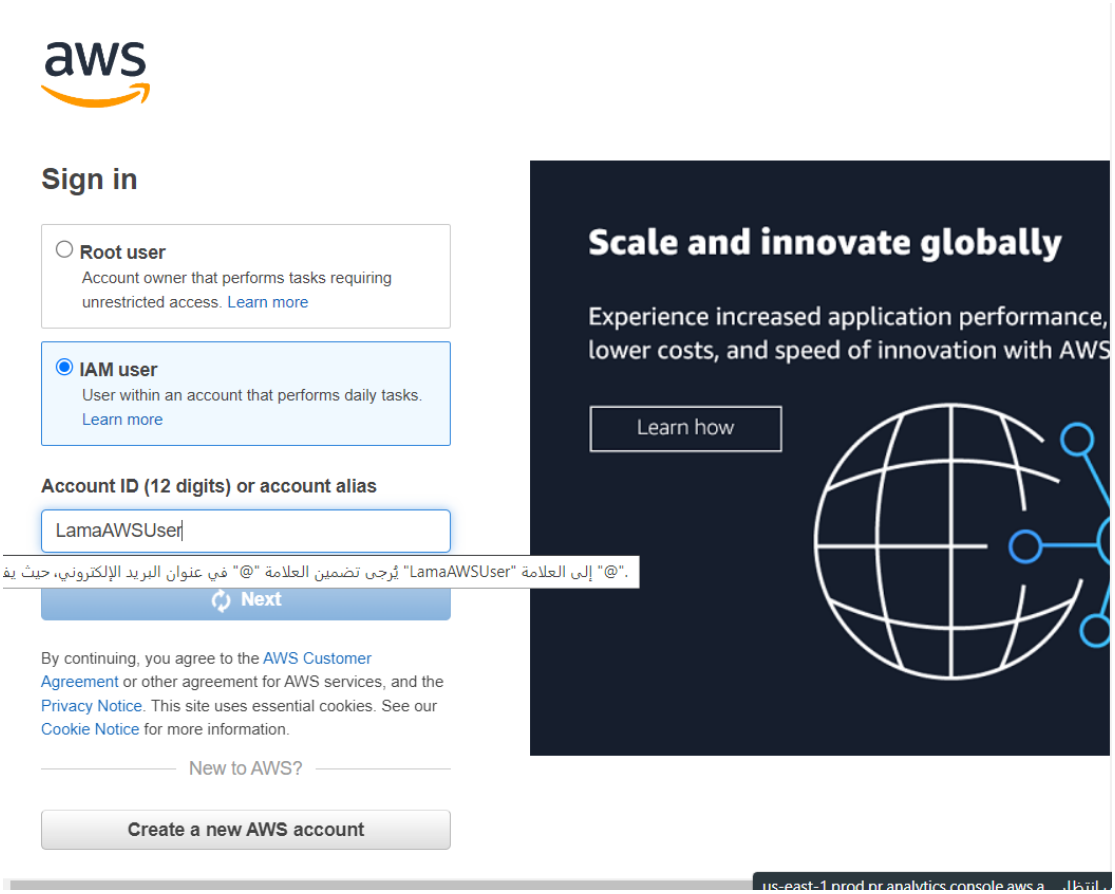
5. Create iam user :

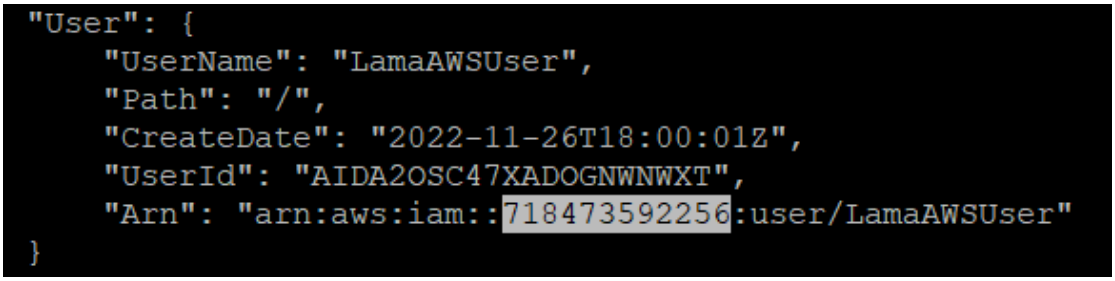
```
[ec2-user@ip-10-200-0-51 ~]$ aws iam create-user --user-name LamaAWSUser
{
    "User": {
        "UserName": "LamaAWSUser",
        "Path": "/",
        "CreateDate": "2022-11-26T18:00:01Z",
        "UserId": "AIDA2OSC47XADOGNWNWXT",
        "Arn": "arn:aws:iam::718473592256:user/LamaAWSUser"
    }
}
[ec2-user@ip-10-200-0-51 ~]$
```

6. Create a login profile for the new user

```
}
[ec2-user@ip-10-200-0-51 ~]$ aws iam create-login-profile --user-name LamaAWSUser --password lama95**
{
    "LoginProfile": {
        "UserName": "LamaAWSUser",
        "CreateDate": "2022-11-26T18:01:40Z",
        "PasswordResetRequired": false
    }
}
```

click the **Sign in to the AWS console**





aws

Sign in as IAM user

Account ID (12 digits) or account alias

718473592256

IAM user name

LamaAWSUser

Password

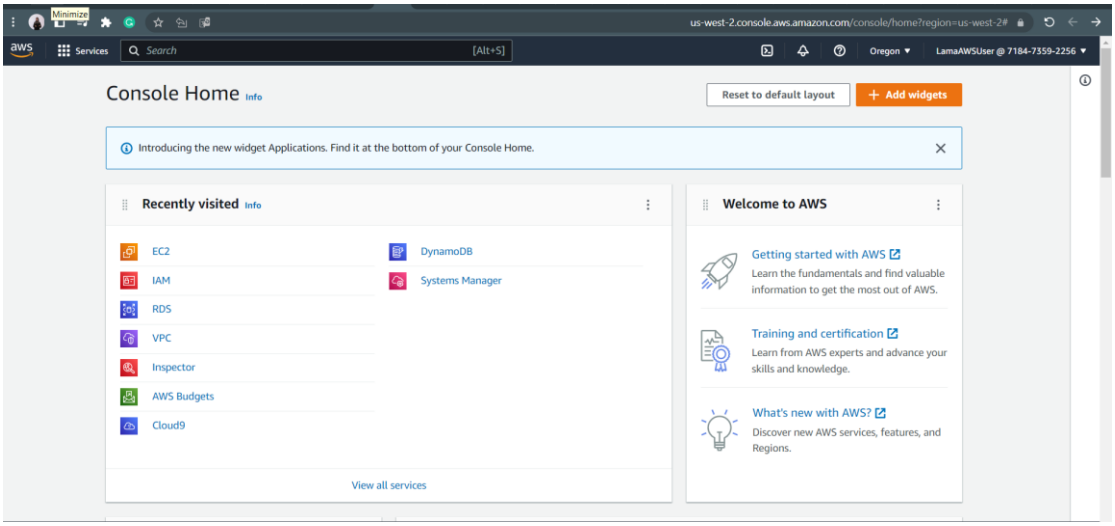
••••••••

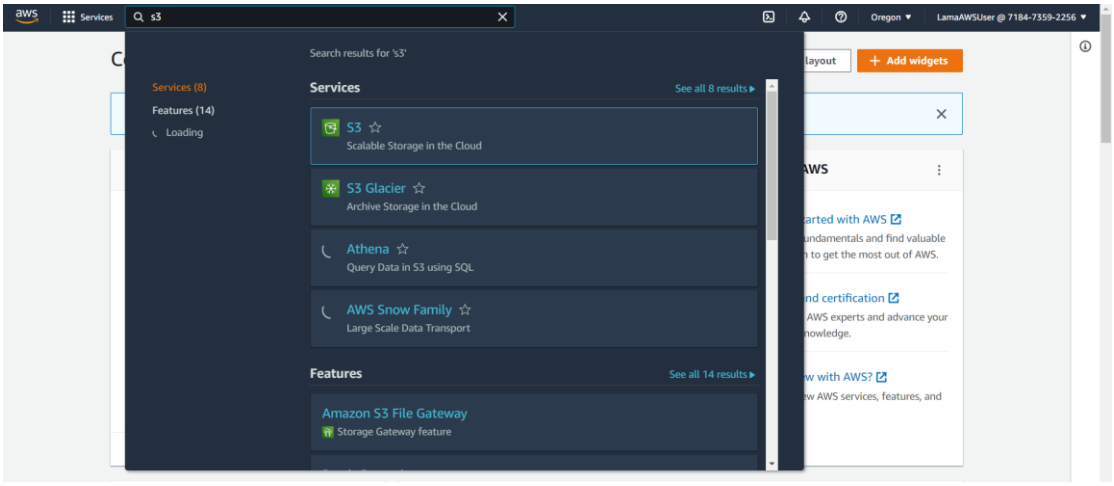
Remember this account

Sign in

Sign in using root user email

Forgot password?

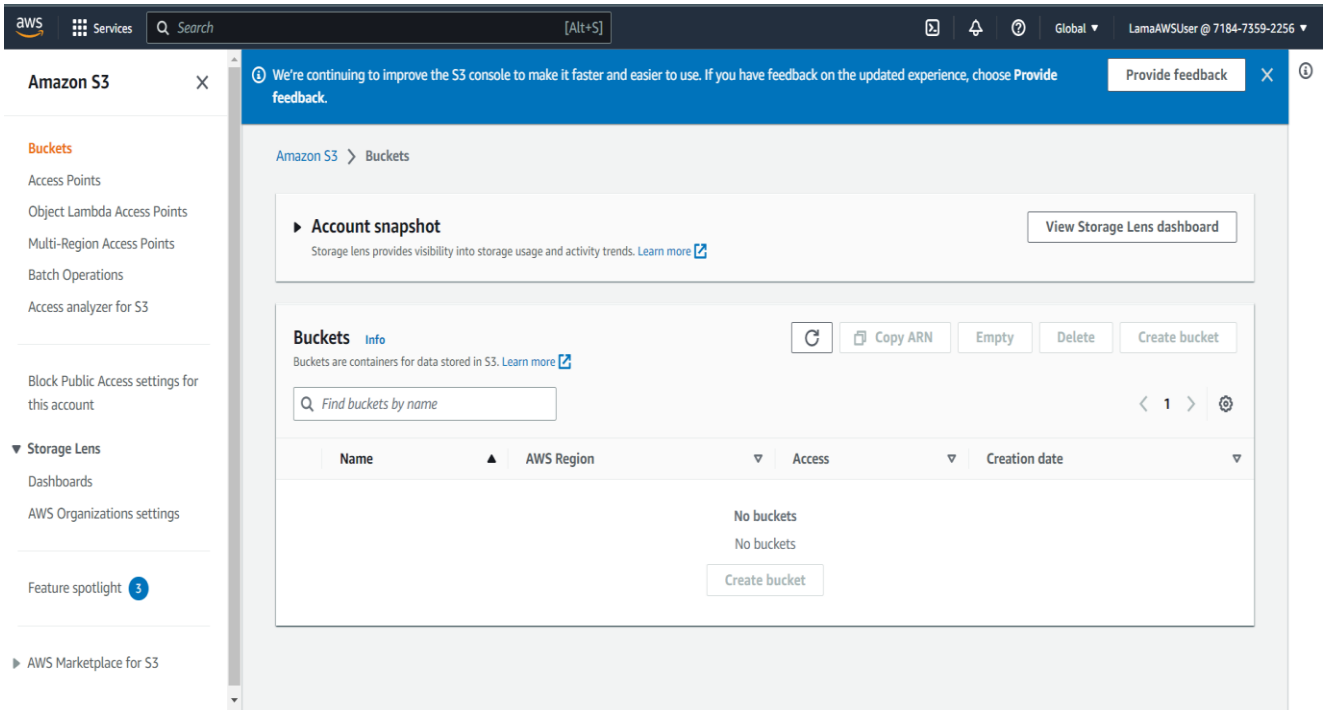




This XML file does not appear to have any style information associated with it. The document tree is shown below.


```
<Error>
  <Code>AccessDenied</Code>
  <Message>Access Denied</Message>
  <RequestId>7SDHAVM59NHH6BE1</RequestId>
  <HostId>jMnH6CzaINFVlC/7GtFFM8c/buuUzAHXdbwlMVRFldMn355itAbtM0j3SLz6896f519tFw2j+Gc=</HostId>
</Error>
```


The Amazon S3 service page will display with an error message that states *Access denied*.



Get info about the new user :

```
[ec2-user@ip-10-200-0-51 ~]$ aws sts get-caller-identity
{
    "Account": "718473592256",
    "UserId": "AIDA2OSC47XAFZZ37WFJ2",
    "Arn": "arn:aws:iam::718473592256:user/awsstudent"
}
[ec2-user@ip-10-200-0-51 ~]$
```

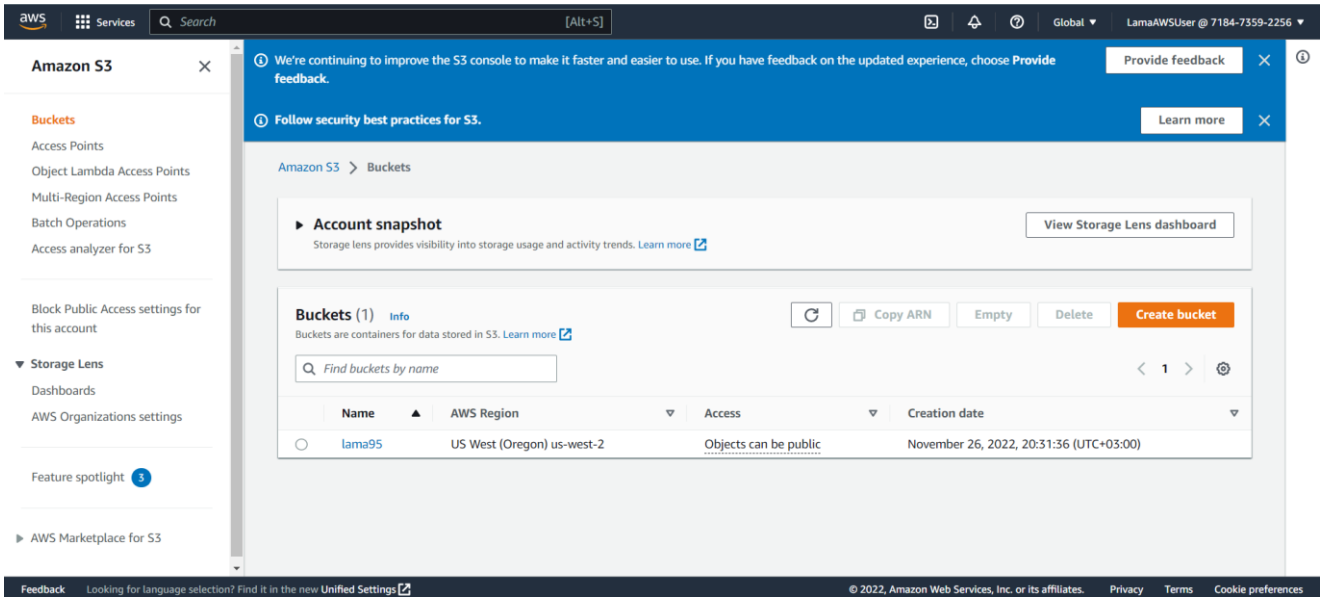
7. find the AWS managed policy that grants full access to Amazon S3. Run this command to find it:

aws iam list-policies --query "Policies[?contains(PolicyName,'S3')]"

8. Grant the **newuser** full access to the S3 bucket by using the following command

```
ec2-user@ip-10-200-0-51 ~]$ aws iam attach-user-policy --policy-arn arn:aws:iam::aws:policy/AmazonS3FullAccess --user-name LamaAWSUser
ec2-user@ip-10-200-0-51 ~]$
```

The *Access denied* error should go away, and you should now see the bucket that you created by using the AWS CLI earlier in this activity



9. extract the files

```
[ec2-user@ip-10-200-0-51 ~]$ cd ~/sysops-activity-files
[ec2-user@ip-10-200-0-51 sysops-activity-files]$ tar xvzf static-website-v2.tar.gz
static-website/
static-website/css/
static-website/css/styles.css
static-website/images/
static-website/images/Cafe-Owners.png
static-website/images/Cake-Vitrine.png
static-website/images/Coffee-and-Pastries.png
static-website/images/Coffee-Shop.png
static-website/images/Cookies.png
static-website/images/Cup-of-Hot-Chocolate.png
static-website/images/Strawberry-&-Blueberry-Tarts.png
static-website/images/Strawberry-Tarts.png
static-website/index.html
[ec2-user@ip-10-200-0-51 sysops-activity-files]$ cd static-website
[ec2-user@ip-10-200-0-51 static-website]$ ls
css  images  index.html
```

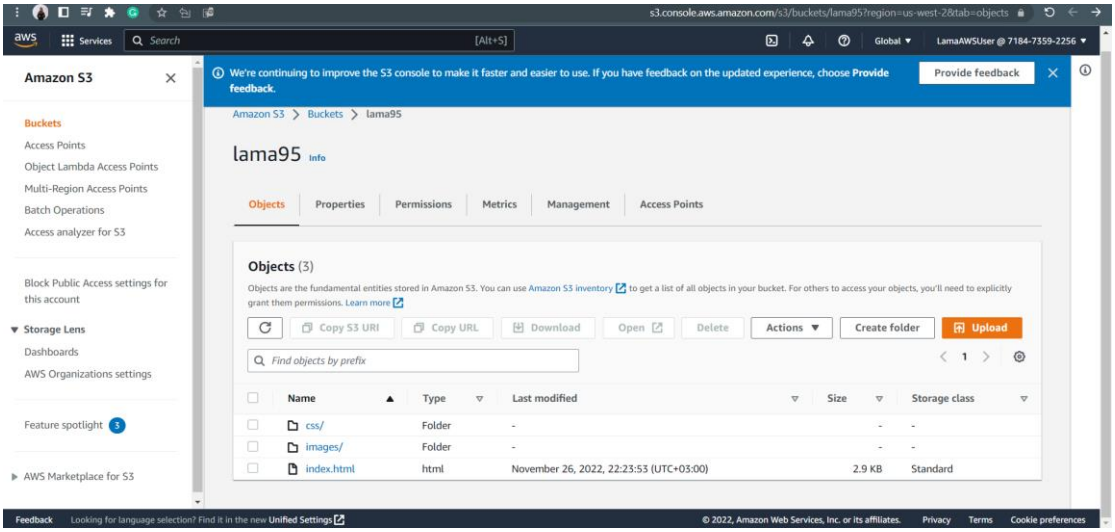
10. Prepare the bucket that you created earlier to function as a website

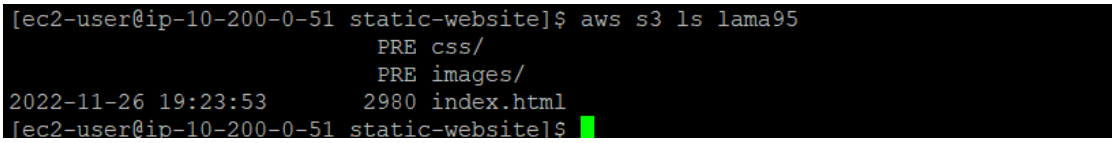
```
[ec2-user@ip-10-200-0-51 static-website]$ aws s3 website s3://lama95/ --index-document index.html
[ec2-user@ip-10-200-0-51 static-website]$
```

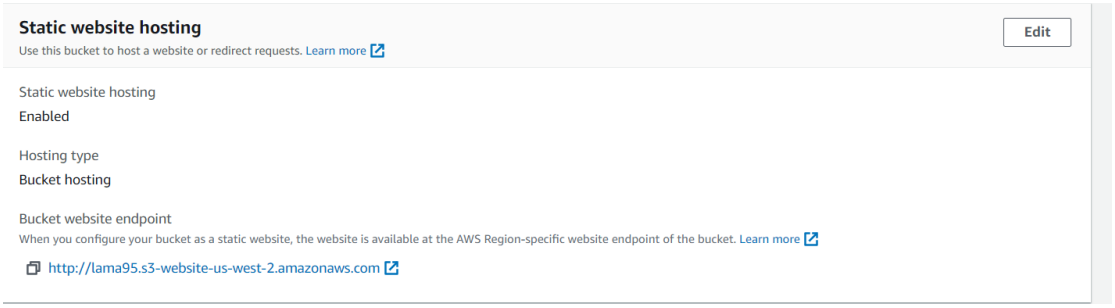
11. Upload the files to the bucket

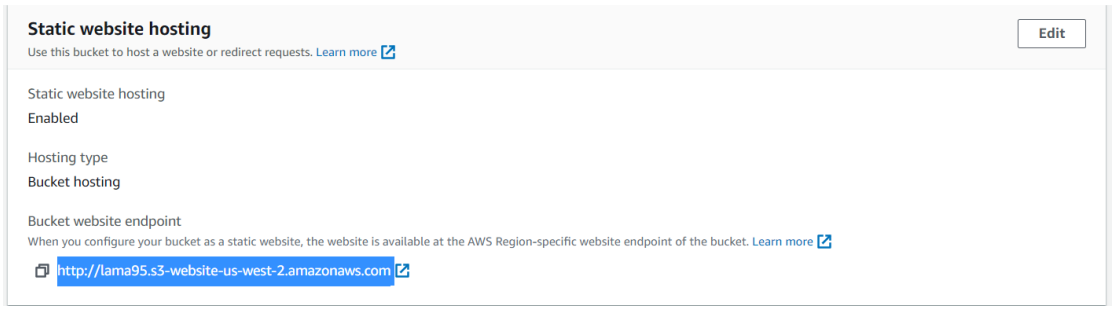
aws s3 cp /home/ec2-user/sysops-activity-files/static-website/ s3://lama95/ --recursive --acl public-read

```
[ec2-user@ip-10-200-0-51 static-website]$ aws s3 website s3://lama95/ --index-document index.html
[ec2-user@ip-10-200-0-51 static-website]$ aws s3 cp /home/ec2-user/sysops-activity-files/static-website/ s3://lama95/ --recursive --acl public-read
upload: css/styles.css to s3://lama95/css/styles.css
upload: images/Coffee-Shop.png to s3://lama95/images/Coffee-Shop.png
upload: ./index.html to s3://lama95/index.html
upload: images/Cafe-Owners.png to s3://lama95/images/Cafe-Owners.png
upload: images/Cup-of-Hot-Chocolate.png to s3://lama95/images/Cup-of-Hot-Chocolate.png
upload: images/Cake-Vitrine.png to s3://lama95/images/Cake-Vitrine.png
upload: images/Coffee-and-Pastries.png to s3://lama95/images/Coffee-and-Pastries.png
upload: images/Cookies.png to s3://lama95/images/Cookies.png
upload: images/Strawberry-&-Blueberry-Tarts.png to s3://lama95/images/Strawberry-&-Blueberry-Tarts.png
upload: images/Strawberry-Tarts.png to s3://lama95/images/Strawberry-Tarts.png
[ec2-user@ip-10-200-0-51 static-website]$
```


s3.console.aws.amazon.com/s3/buckets/lama95?region=us-west-2&tab=objects
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.
Provide feedback
Amazon S3 > Buckets > lama95
lama95 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (3)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
css/ Folder
images/ Folder
index.html html November 26, 2022, 22:23:53 (UTC+03:00) 2.9 KB Standard


[ec2-user@ip-10-200-0-51 static-website]$ aws s3 ls lama95
PRE css/
PRE images/
2022-11-26 19:23:53 2980 index.html
[ec2-user@ip-10-200-0-51 static-website]$


Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Edit
Static website hosting
Enabled
Hosting type
Bucket hosting
Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more
http://lama95.s3-website-us-west-2.amazonaws.com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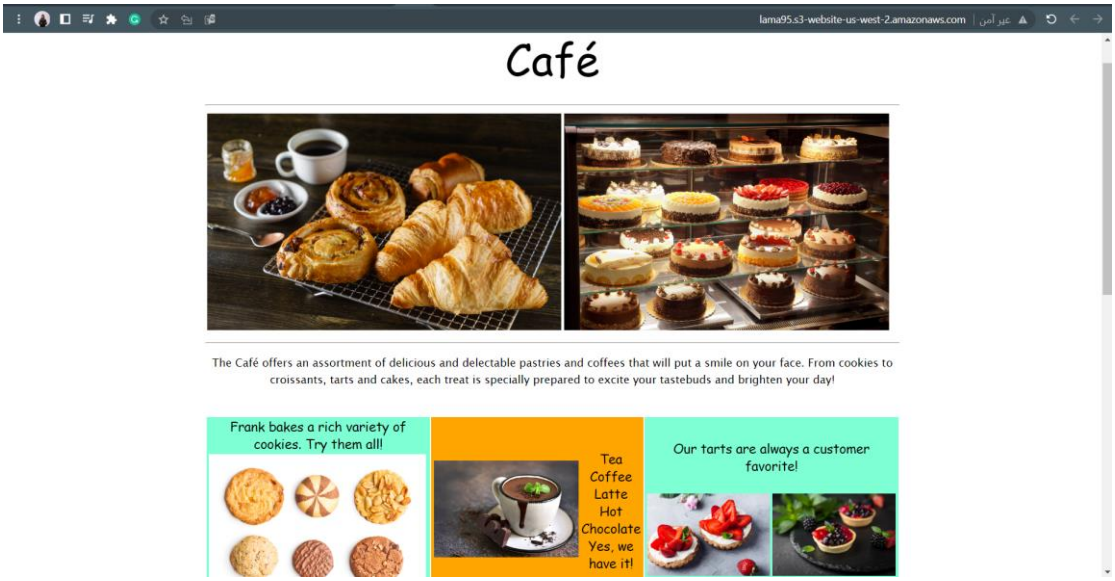

Create a batch file to make updating the website easily repeatable

```
[ec2-user@ip-10-200-0-51 static-website]$ cd ~
[ec2-user@ip-10-200-0-51 ~]$ touch update-website.sh
```

```
#!/bin/bash
#
aws s3 cp /home/ec2-user/sysops-activity-files/static-website/ s3://lama95/ --recursive --acl public-read
```

```
[ec2-user@ip-10-200-0-51 ~]$ vi update-website.sh
[ec2-user@ip-10-200-0-51 ~]$ chmod +x update-website.sh
[ec2-user@ip-10-200-0-51 ~]$ vi sysops-activity-files/static-website/index.html
```

```
er@ip-10-200-0-51 ~]$ vi sysops-activity-files/static-website/index.html
er@ip-10-200-0-51 ~]$ ./update-website.sh
 sysops-activity-files/static-website/css/styles.css to s3://lama95/css/styles.css
 sysops-activity-files/static-website/images/Coffee-Shop.png to s3://lama95/images/Coffee-Shop.png
 sysops-activity-files/static-website/images/Cafe-Owners.png to s3://lama95/images/Cafe-Owners.png
 sysops-activity-files/static-website/index.html to s3://lama95/index.html
 sysops-activity-files/static-website/images/Cake-Vitrine.png to s3://lama95/images/Cake-Vitrine.png
 sysops-activity-files/static-website/images/Cookies.png to s3://lama95/images/Cookies.png
 sysops-activity-files/static-website/images/Coffee-and-Pastries.png to s3://lama95/images/Coffee-and-Pastries.png
 sysops-activity-files/static-website/images/Cup-of-Hot-Chocolate.png to s3://lama95/images/Cup-of-Hot-Chocolate.png
 sysops-activity-files/static-website/images/Strawberry-&-Blueberry-Tarts.png to s3://lama95/images/Strawberry-&-Blueberry-Tarts.png
 sysops-activity-files/static-website/images/Strawberry-Tarts.png to s3://lama95/images/Strawberry-Tarts.png
er@ip-10-200-0-51 ~]$
```