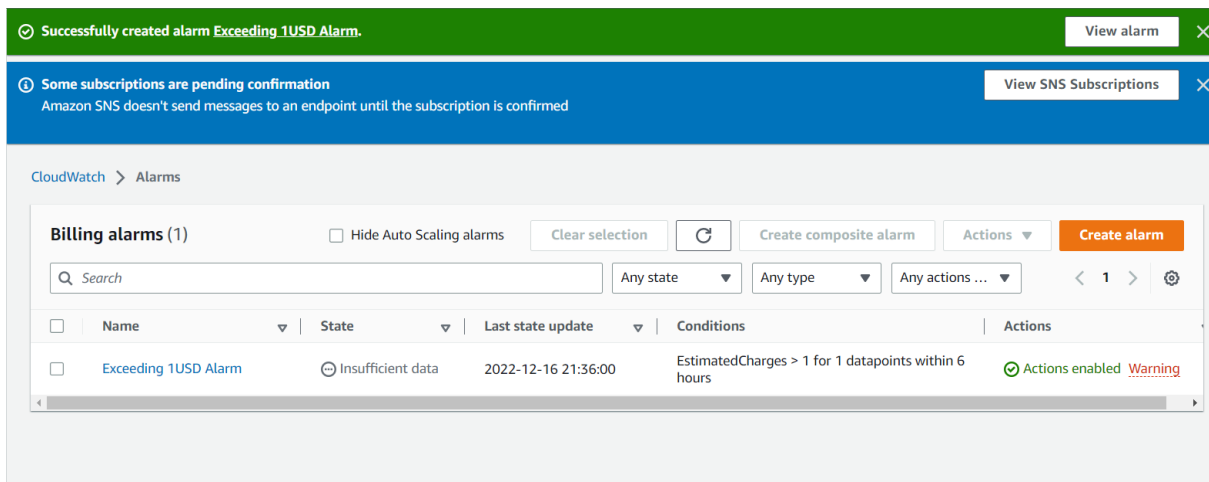
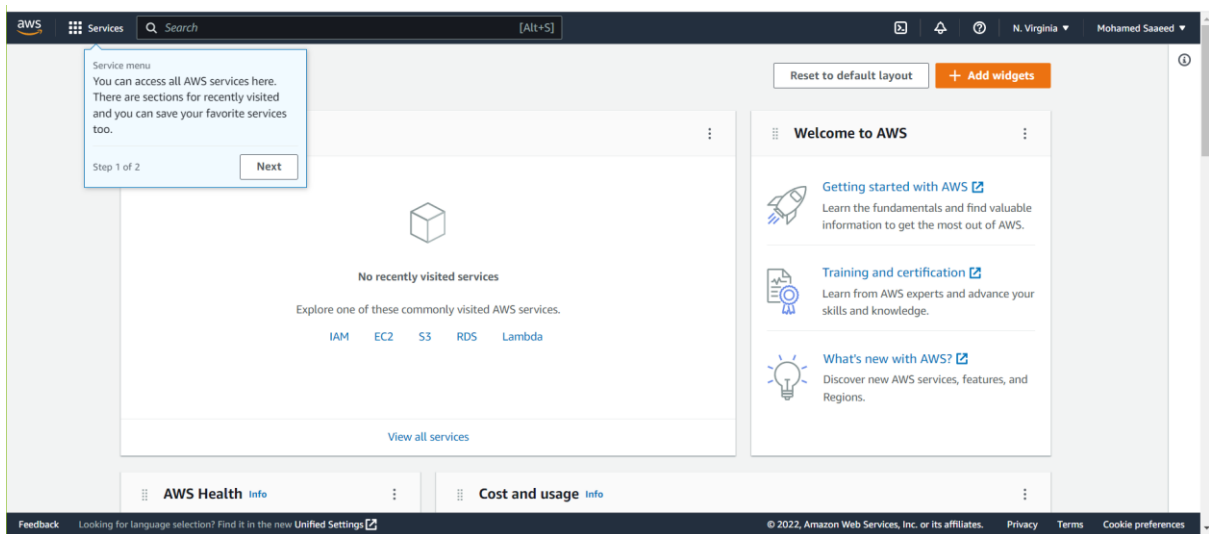
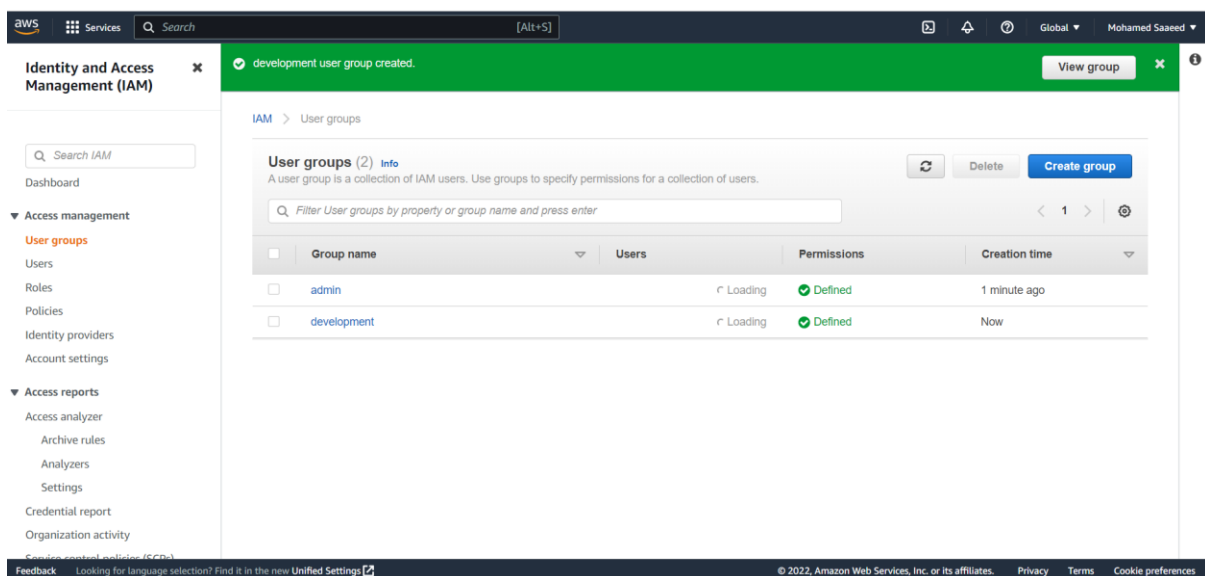


AWS Lab 01:

1. Create AWS account and set billing alarm



2. Create 2 groups one admin and one for development



development user group created. [View group](#)

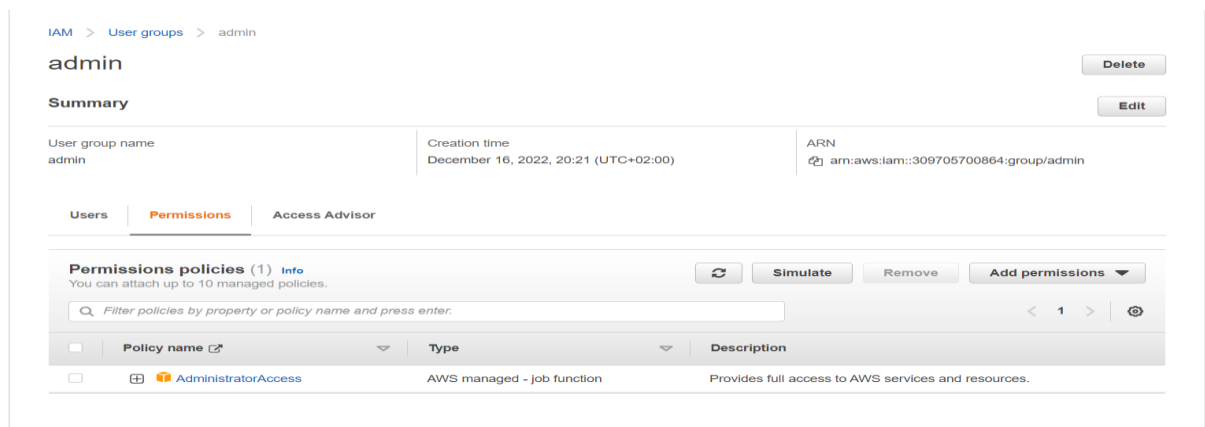
IAM > User groups

User groups (2) [Info](#)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	admin	⌚ Loading	✔ Defined	1 minute ago
<input type="checkbox"/>	development	⌚ Loading	✔ Defined	Now

3. The admin group it has admin permission, and in the development only access to s3



IAM > User groups > admin

admin [Delete](#)

Summary [Edit](#)

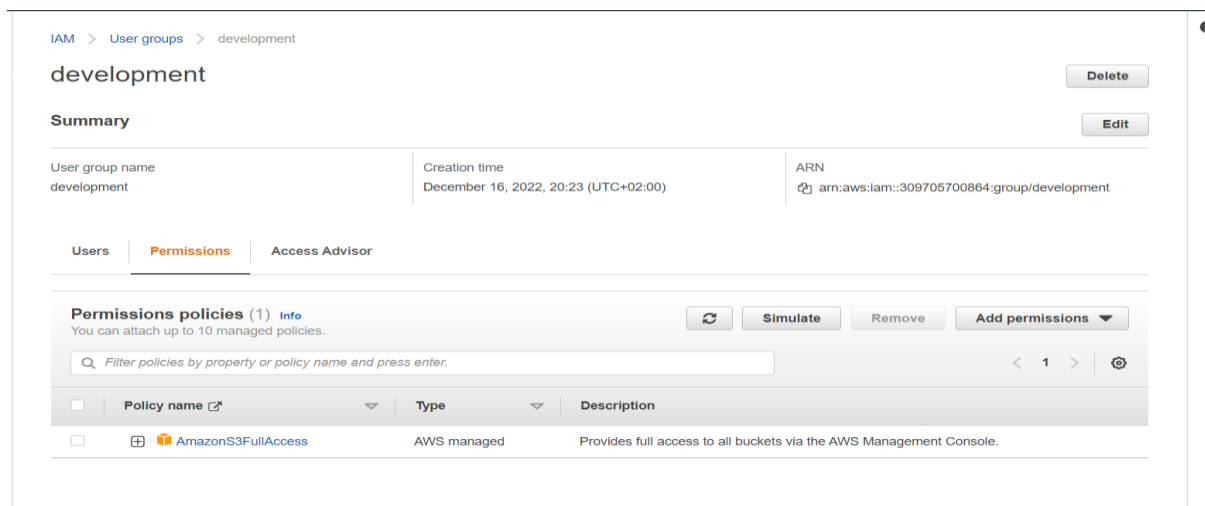
User group name admin	Creation time December 16, 2022, 20:21 (UTC+02:00)	ARN arn:aws:iam::309705700864:group/admin
--------------------------	---	--

[Users](#) [Permissions](#) [Access Advisor](#)

Permissions policies (1) [Info](#)

You can attach up to 10 managed policies.

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AdministratorAccess	AWS managed - job function	Provides full access to AWS services and resources.



IAM > User groups > development

development [Delete](#)

Summary [Edit](#)

User group name development	Creation time December 16, 2022, 20:23 (UTC+02:00)	ARN arn:aws:iam::309705700864:group/development
--------------------------------	---	--

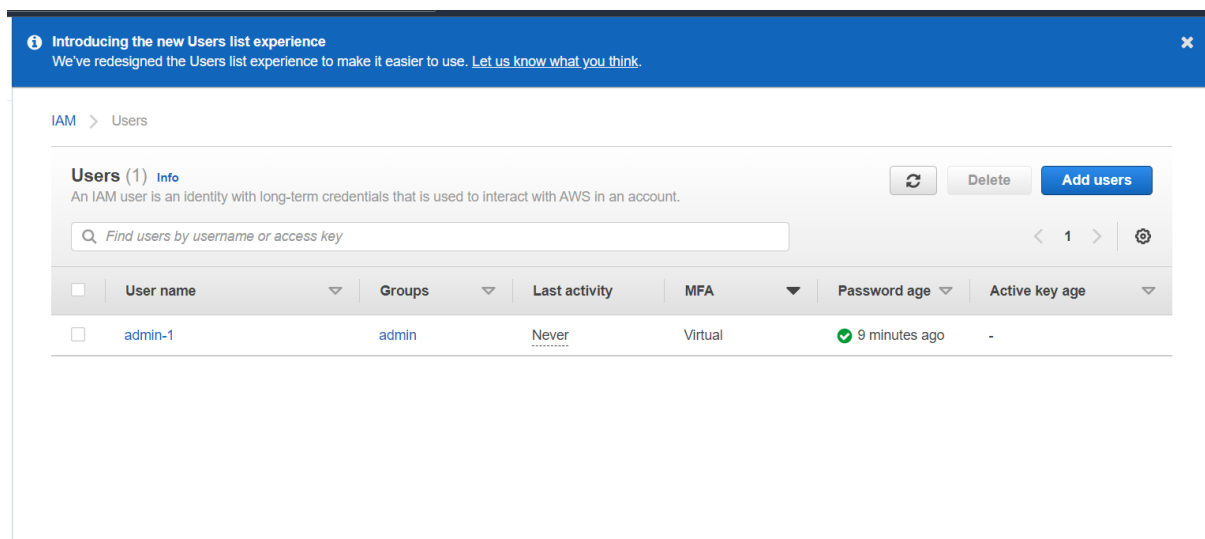
[Users](#) [Permissions](#) [Access Advisor](#)

Permissions policies (1) [Info](#)

You can attach up to 10 managed policies.

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonS3FullAccess	AWS managed	Provides full access to all buckets via the AWS Management Console.

4. Create admin-1 user console access and MFA enabled



5. Create admin2-prog with cli access only and list all users and groups using it commands not console

```
[root@localhost mohamed]#
[root@localhost mohamed]# aws --version
aws-cli/2.9.7 Python/3.9.11 Linux/4.18.0-408.el8.x86_64 exe/x86_64.centos.8 prompt/off
[root@localhost mohamed]# aws configure
AWS Access Key ID [*****MR27]:
AWS Secret Access Key [*****U58J]:
Default region name [None]:
Default output format [None]:
[root@localhost mohamed]# aws iam list-groups
{
  "Groups": [
    {
      "Path": "/",
      "GroupName": "admin",
      "GroupId": "AGPAUQG7F6YAIZGM42UP4",
      "Arn": "arn:aws:iam::309705700864:group/admin",
      "CreateDate": "2022-12-16T18:21:53+00:00"
    },
    {
      "Path": "/",
      "GroupName": "development",
      "GroupId": "AGPAUQG7F6YAAJUZRDURS",
      "Arn": "arn:aws:iam::309705700864:group/development",
      "CreateDate": "2022-12-16T18:23:02+00:00"
    }
  ]
}
[root@localhost mohamed]# aws iam list-users
{
  "Users": [
    {
      "Path": "/",
      "UserName": "admin-1",
      "UserId": "AIDAUQG7F6YACPA5VI6WQ",
      "Arn": "arn:aws:iam::309705700864:user/admin-1",
      "CreateDate": "2022-12-16T18:28:51+00:00"
    },
    {
      "Path": "/",
      "UserName": "admin2-prog",
      "UserId": "AIDAUQG7F6YAFZMQX7RXL",
      "Arn": "arn:aws:iam::309705700864:user/admin2-prog",
      "CreateDate": "2022-12-16T18:41:00+00:00"
    }
  ]
}
[root@localhost mohamed]#
```

6. In the development group create user with name dev-user with programmatic and Admin access try to access AWS using it (take a screenshot from accessing ec2 and s3 console)

Policy has been detached from the user dev-user

Users > dev-user

Summary

User ARN arn:aws:iam::309705700864:user/dev-user

Path /

Creation time 2022-12-16 21:01 UTC+0200

Permissions **Groups (1)** **Tags** **Security credentials** **Access Advisor**

▼ Permissions policies (1 policy applied)

[Add permissions](#) [Add inline policy](#)

Policy name ▼	Policy type ▼
Attached from group	
AmazonS3FullAccess	AWS managed policy from group development

aws Services Search [Alt+S] N. Virginia dev-user @ 3097-0570-0864

New EC2 Experience Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ **Instances**

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ **Images**

Images

Resources [EC2 Global view](#)

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	Dedicated Hosts	Elastic IPs
Instances	Key pairs	Load balancers
Placement groups	Security groups	Snapshots
Volumes		

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

Launch instance

To get started, launch an Amazon EC2 Instance, which is a virtual server in the cloud.

[Launch instance](#)

Service health

[AWS Health Dashboard](#)

Region
US East (N. Virginia)

Account attributes

[Supported platforms](#)

An error occurred
An error occurred retrieving supported platforms

An error occurred
An error occurred checking for a default VPC

Settings

[EBS encryption](#)

[Zones](#)

[EC2 Serial Console](#)

[Default credit specification](#)

[Console experiments](#)

Explore AWS

aws Services Search [Alt+S] Global dev-user @ 3097-0570-0864

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](#)

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

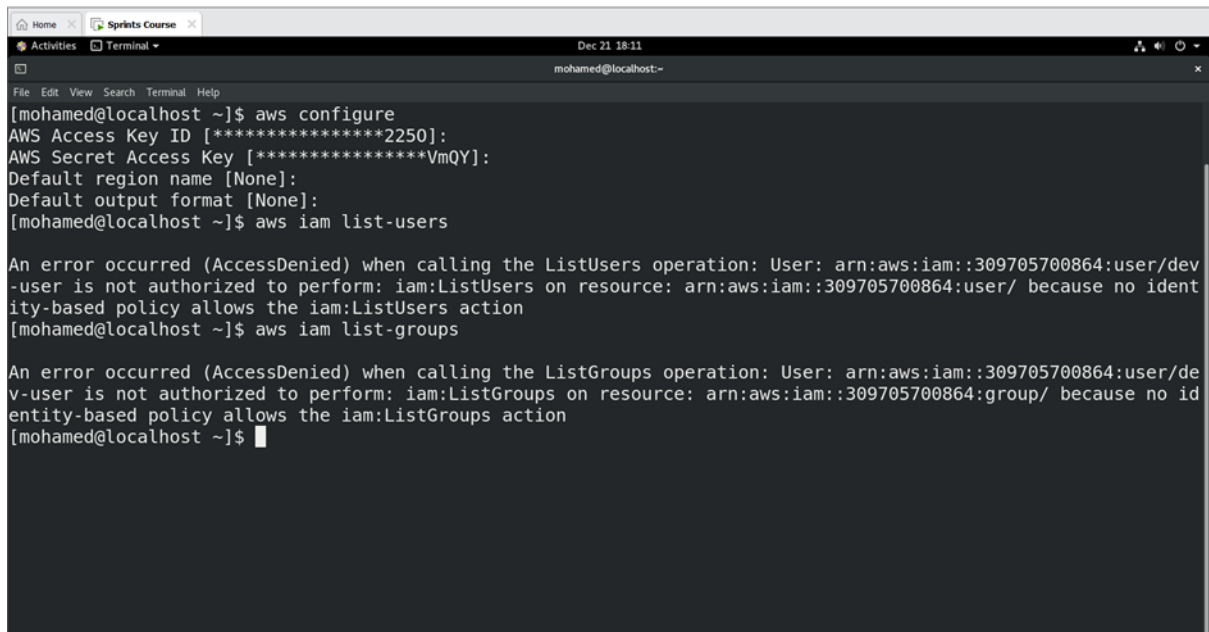
How it works

[Introduction to Amazon S3](#) [Copy link](#)

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7. Also access cli using it and try to get all users and groups using it



```
[mohamed@localhost ~]$ aws configure
AWS Access Key ID [*****2250]:
AWS Secret Access Key [*****VmQY]:
Default region name [None]:
Default output format [None]:
[mohamed@localhost ~]$ aws iam list-users

An error occurred (AccessDenied) when calling the ListUsers operation: User: arn:aws:iam::309705700864:user/dev-user is not authorized to perform: iam:ListUsers on resource: arn:aws:iam::309705700864:user/ because no identity-based policy allows the iam:ListUsers action
[mohamed@localhost ~]$ aws iam list-groups

An error occurred (AccessDenied) when calling the ListGroups operation: User: arn:aws:iam::309705700864:user/dev-user is not authorized to perform: iam:ListGroups on resource: arn:aws:iam::309705700864:group/ because no identity-based policy allows the iam:ListGroups action
[mohamed@localhost ~]$
```