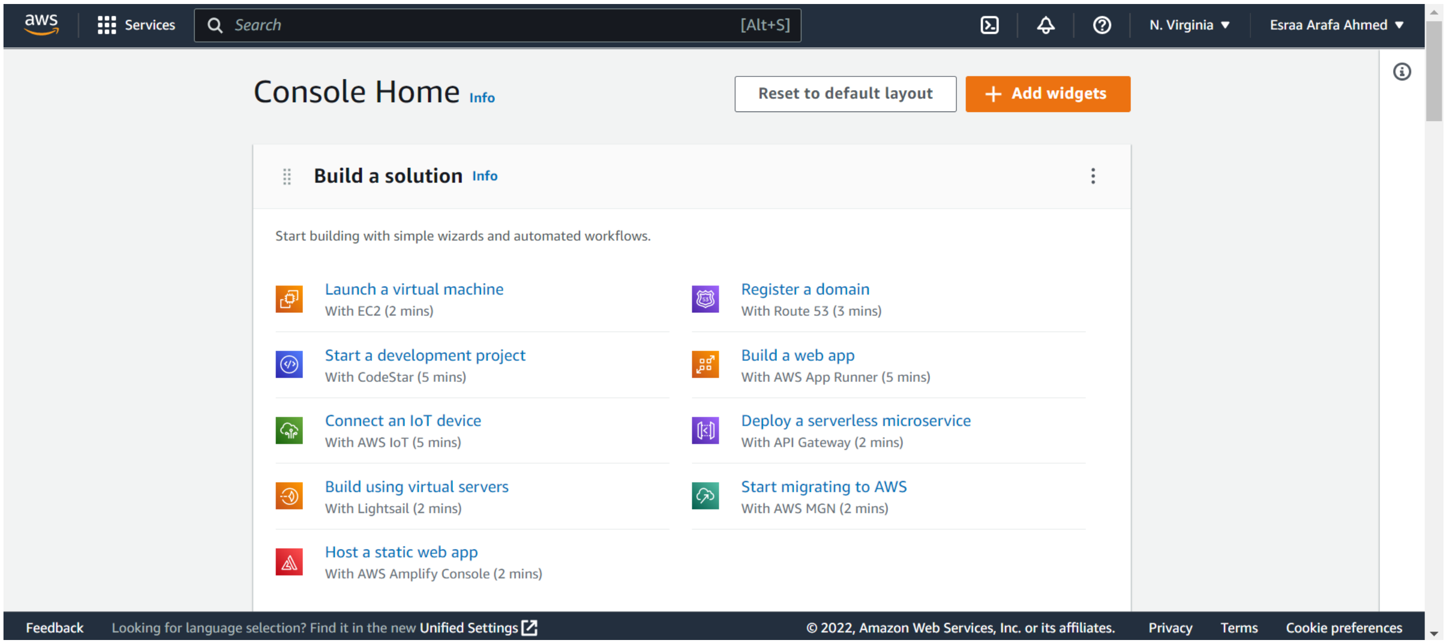
Lab1

1-

- **Create AWS account**



Console Home

Build a solution

Start building with simple wizards and automated workflows.

- Launch a virtual machine
  With EC2 (2 mins)
- Register a domain
  With Route 53 (3 mins)
- Start a development project
  With CodeStar (5 mins)
- Build a web app
  With AWS App Runner (5 mins)
- Connect an IoT device
  With AWS IoT (5 mins)
- Deploy a serverless microservice
  With API Gateway (2 mins)
- Build using virtual servers
  With Lightsail (2 mins)
- Start migrating to AWS
  With AWS MGN (2 mins)
- Host a static web app
  With AWS Amplify Console (2 mins)

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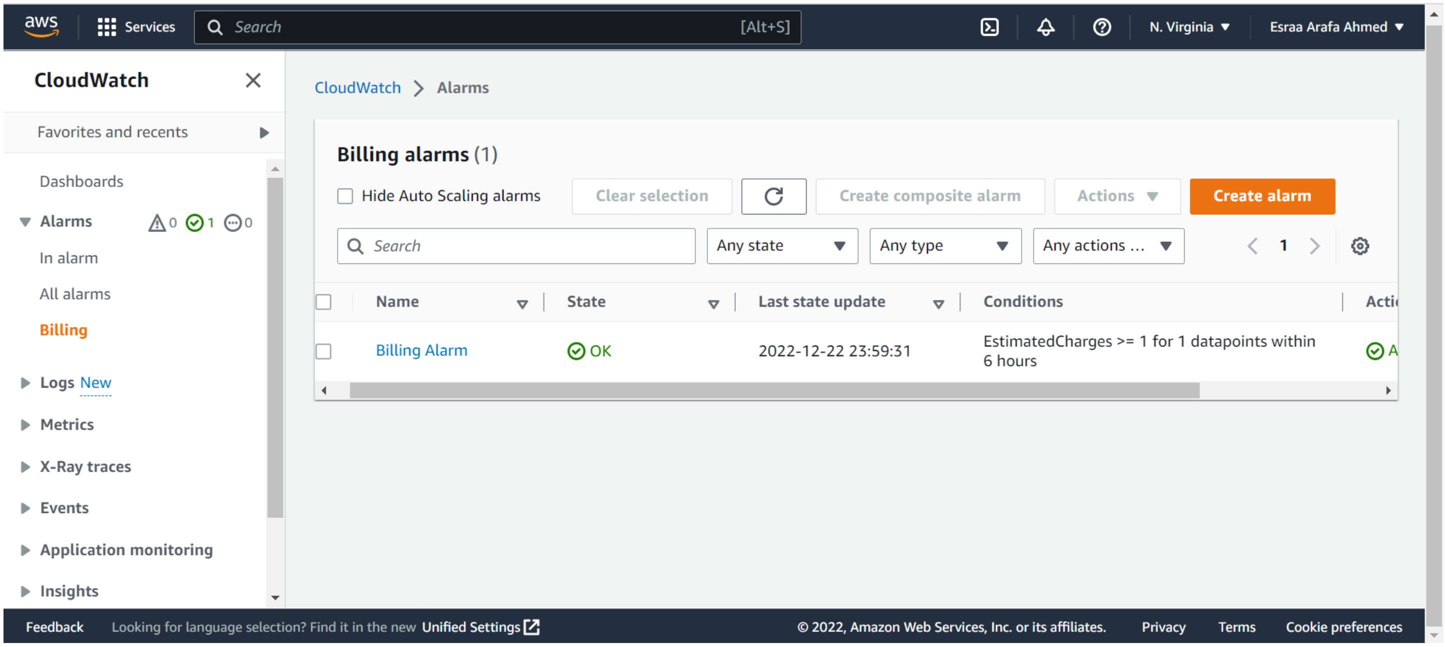
- **and set billing alarm**



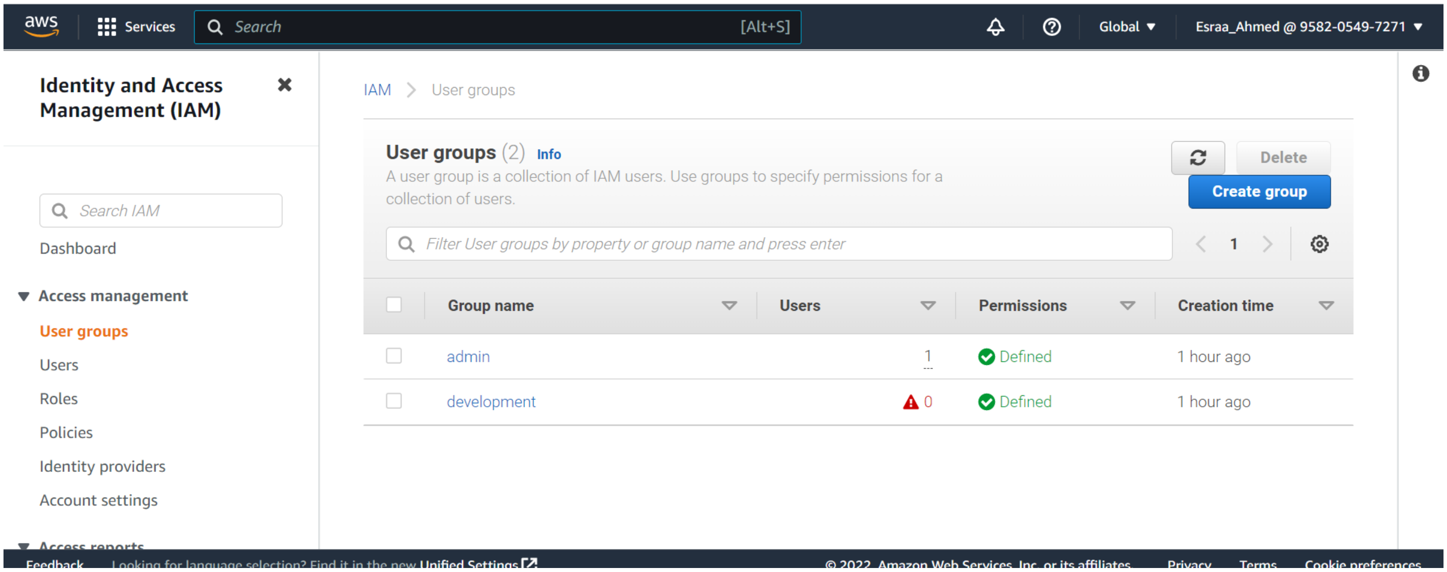
Billing alarms (1)

□ Hide Auto Scaling alarms

□	Name	State	Last state update	Conditions	Acti
□	Billing Alarm	✓ OK	2022-12-22 23:59:31	EstimatedCharges >= 1 for 1 datapoints within 6 hours	✓ A

2-

- **create 2 groups one admin and one for development**


aws
Services
Search
[Alt+S]
Global ▼
Esraa_Ahmed @ 9582-0549-7271 ▼
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Feedback
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IAM > User groups

User groups (2) Info

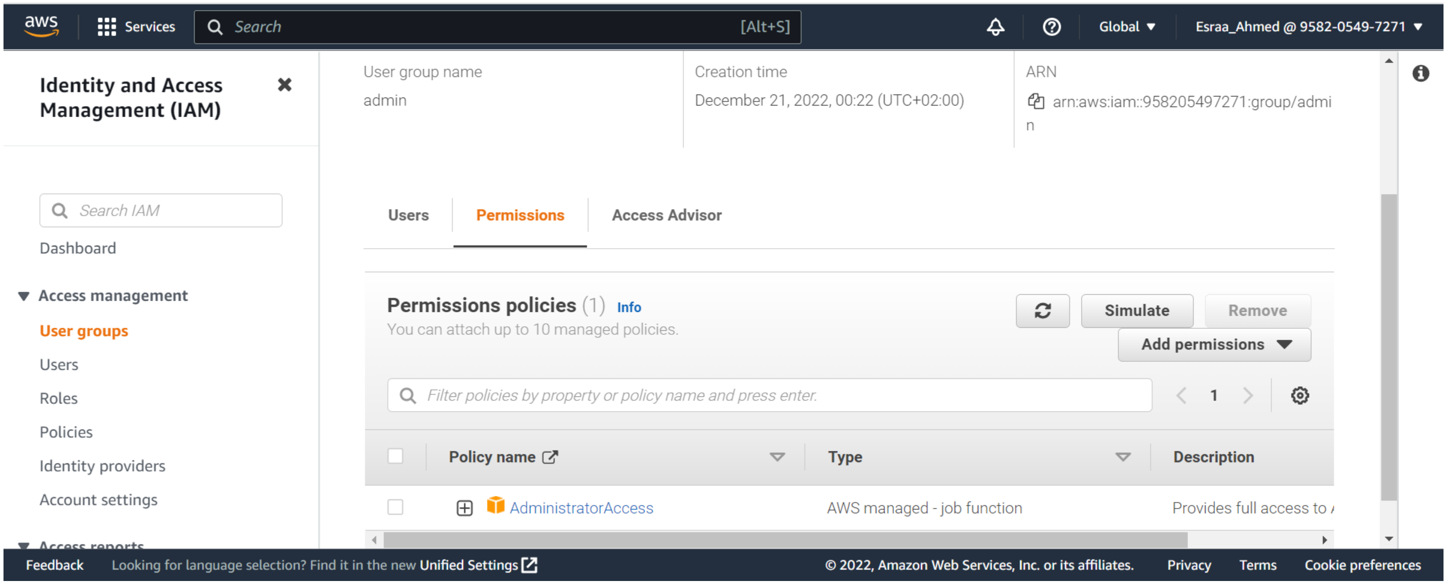
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Delete | Create group

Filter User groups by property or group name and press enter

□	Group name	Users	Permissions	Creation time
□	admin	1	✓ Defined	1 hour ago
□	development	⚠ 0	✓ Defined	1 hour ago

- **in the admin group it has admin permission**



User group name: admin

Creation time: December 21, 2022, 00:22 (UTC+02:00)

ARN: arn:aws:iam::958205497271:group/admin

Permissions policies (1) Info

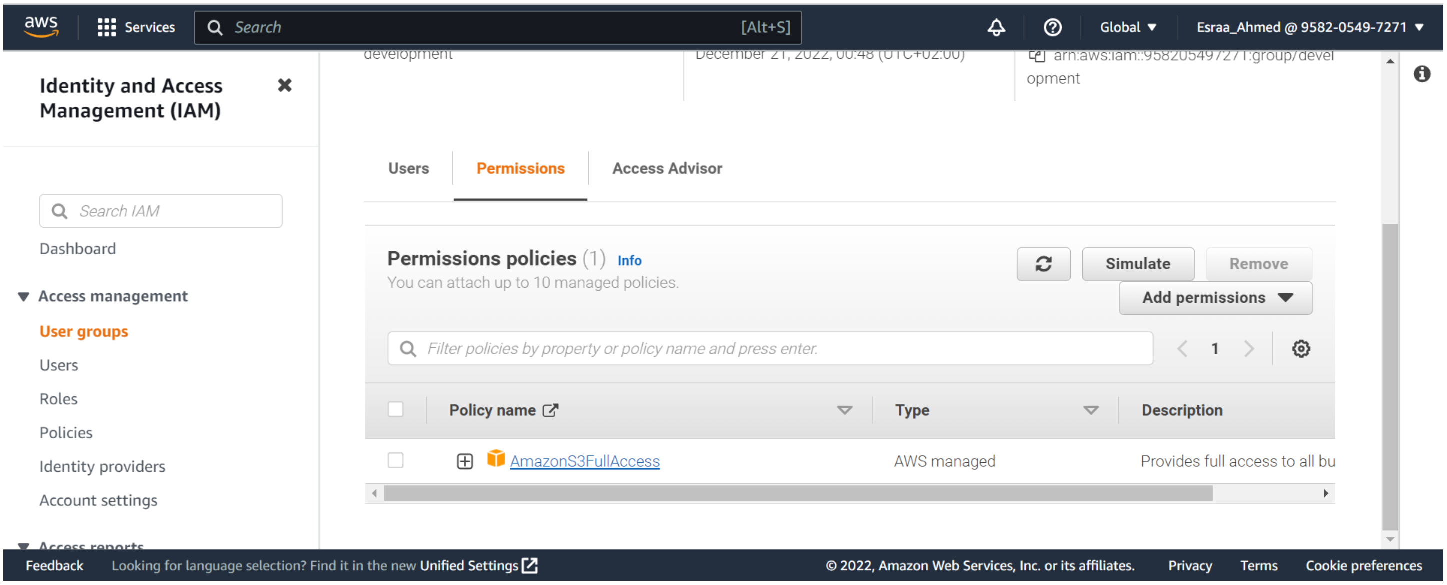
You can attach up to 10 managed policies.

Simulate | Remove | Add permissions ▼

Filter policies by property or policy name and press enter.

□	Policy name	Type	Description
□	⊞ AdministratorAccess	AWS managed - job function	Provides full access to

- **and in the development only access to s3**



development | December 21, 2022, 00:48 (UTC+02:00) | arn:aws:iam::958205497271:group/development

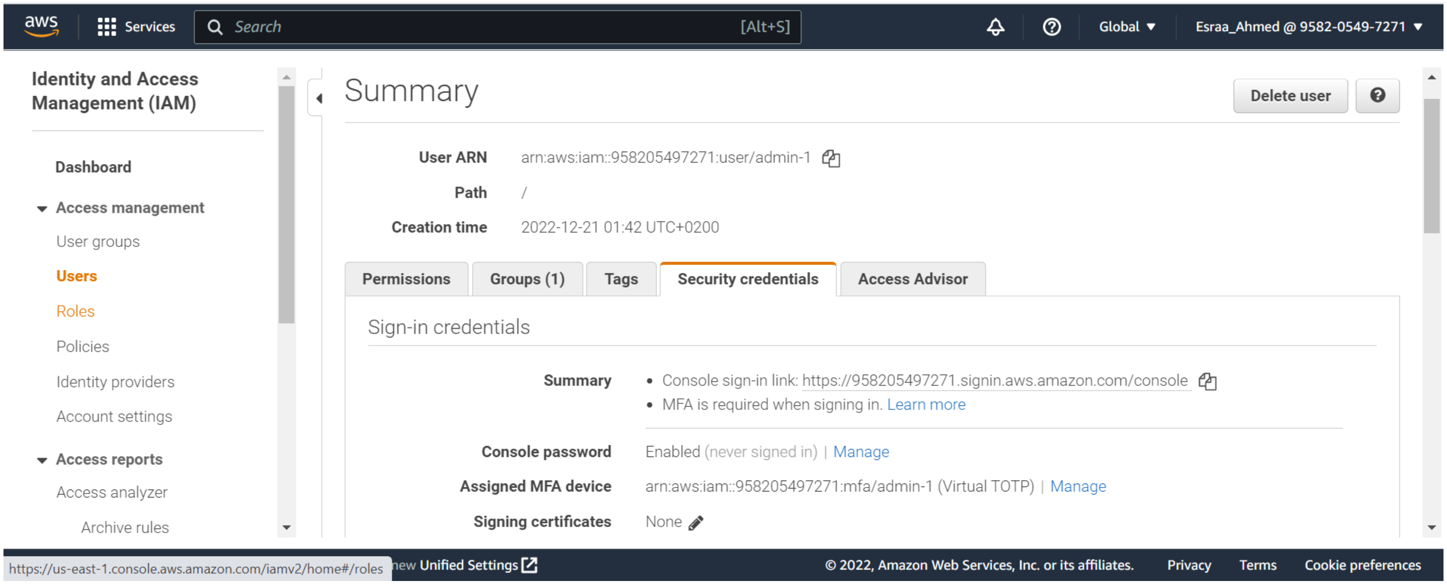
Permissions policies (1) Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

□	Policy name	Type	Description
□	AmazonS3FullAccess	AWS managed	Provides full access to all bu

- **create admin-1 user console access and MFA enabled**



Summary

User ARN arn:aws:iam::958205497271:user/admin-1

Path /

Creation time 2022-12-21 01:42 UTC+0200

Sign-in credentials

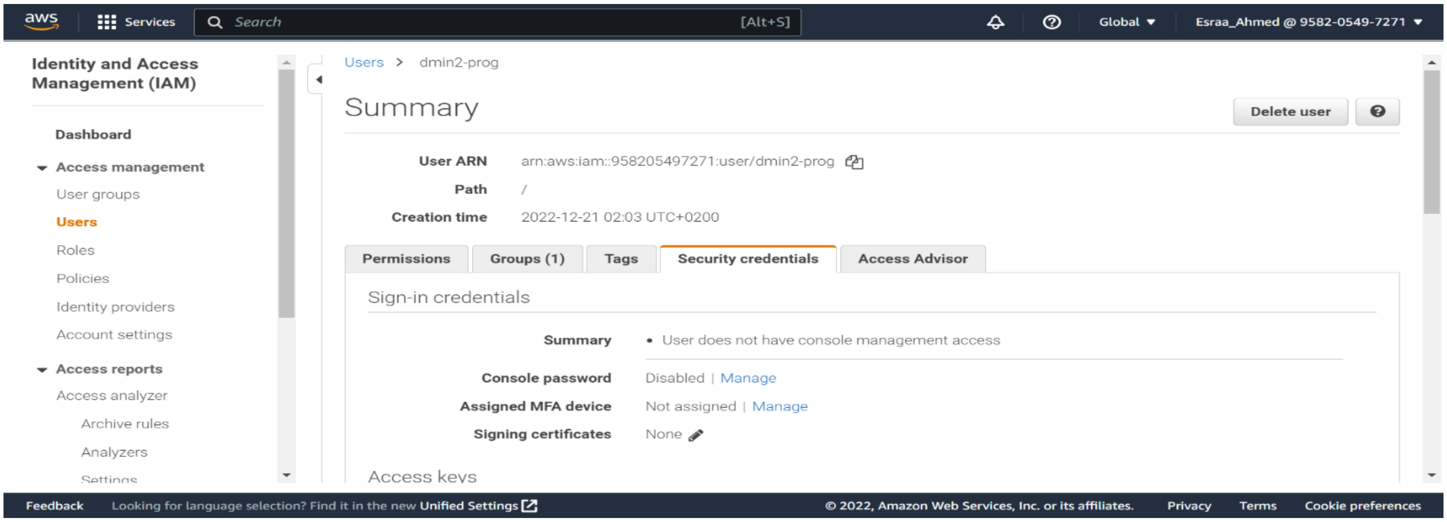
Summary
- Console sign-in link: https://958205497271.signin.aws.amazon.com/console
- MFA is required when signing in. Learn more

Console password Enabled (never signed in) | Manage

Assigned MFA device arn:aws:iam::958205497271:mfa/admin-1 (Virtual TOTP) | Manage

Signing certificates None

- **and admin2-prog with cli access only**



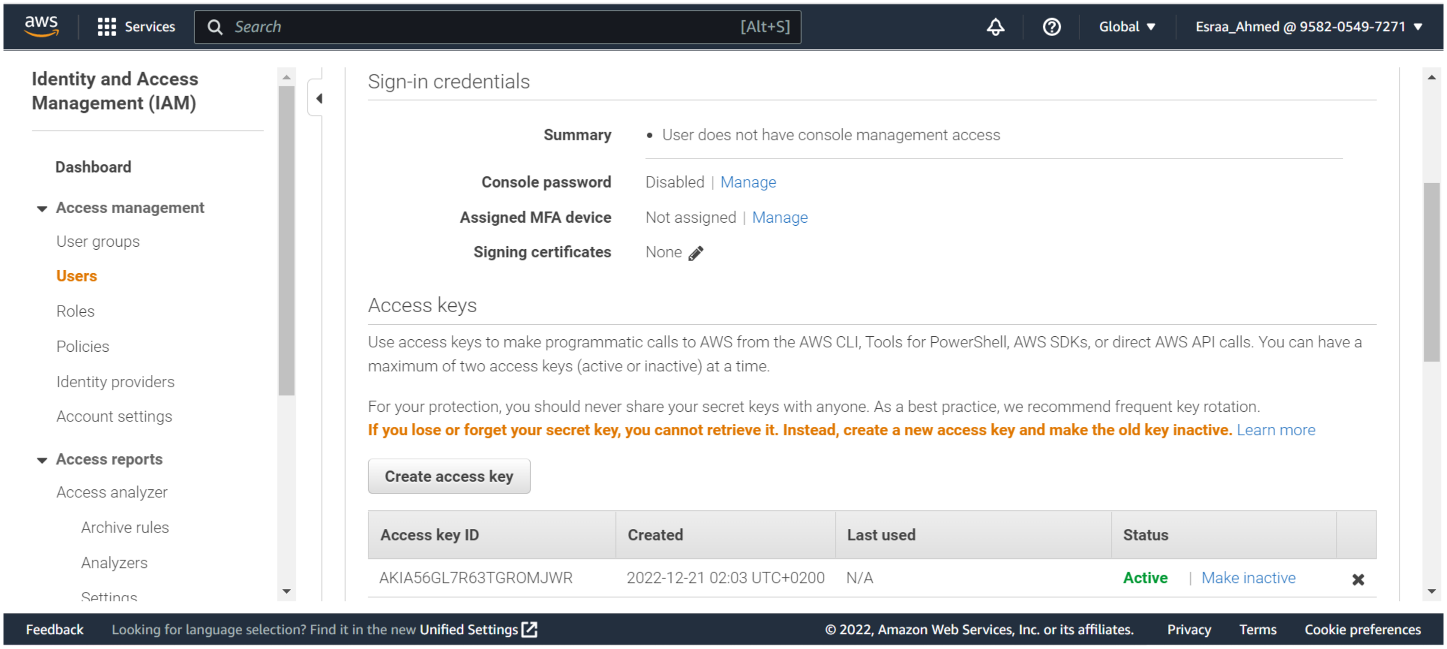
Summary

User ARN	arn:aws:iam::958205497271:user/dmin2-prog
Path	/
Creation time	2022-12-21 02:03 UTC+0200

Sign-in credentials

Summary	• User does not have console management access
Console password	Disabled | Manage
Assigned MFA device	Not assigned | Manage
Signing certificates	None

Access keys



Sign-in credentials

Summary	• User does not have console management access
Console password	Disabled | Manage
Assigned MFA device	Not assigned | Manage
Signing certificates	None

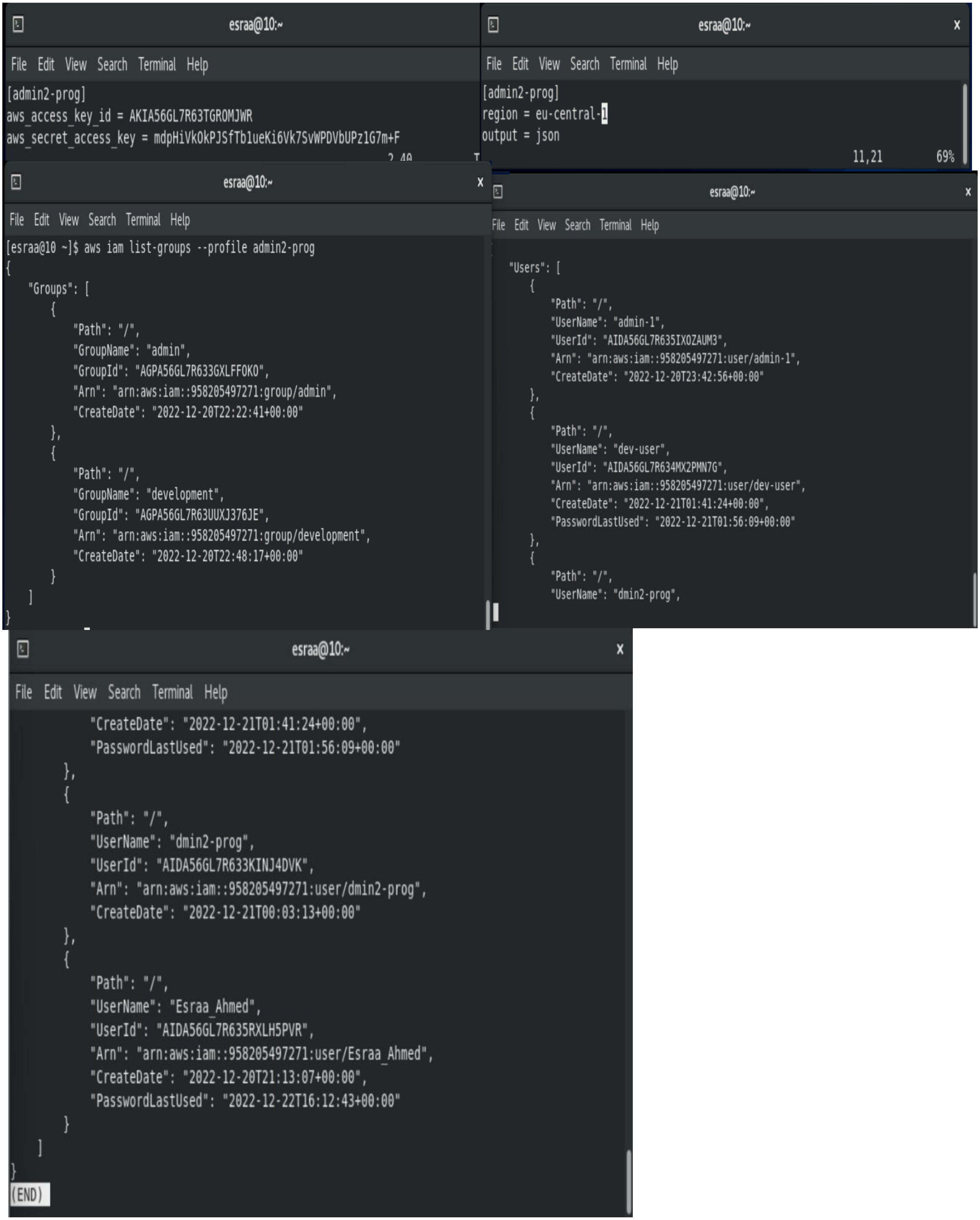
Access keys

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

Access key ID	Created	Last used	Status	
AKIA56GL7R63TGROMJWR	2022-12-21 02:03 UTC+0200	N/A	Active | Make inactive	✖

- **and list all users and groups using it commands not console**



```
[admin2-prog]
aws_access_key_id = AKIA56GL7R63TGROMJWR
aws_secret_access_key = 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
                                                        2,40          T
```

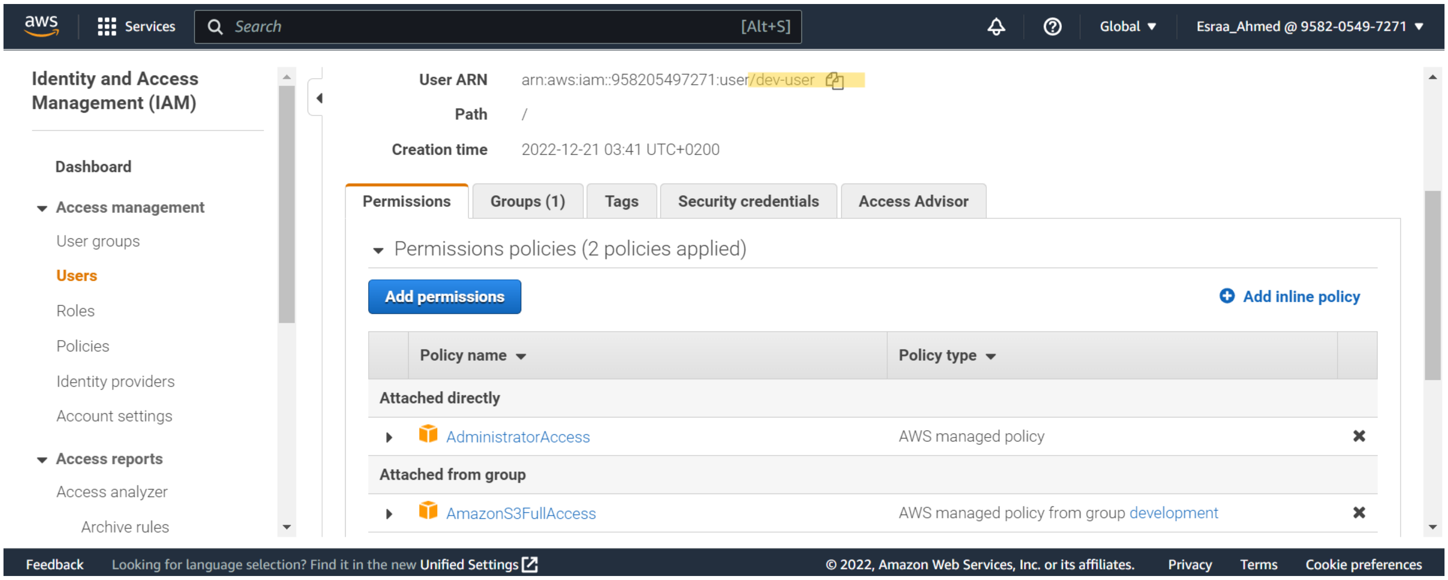
```
[admin2-prog]
region = eu-central-1
output = json
                                                   11,21          69%
```

```
[esraa@10 ~]$ aws iam list-groups --profile admin2-prog
{
    "Groups": [
        {
            "Path": "/",
            "GroupName": "admin",
            "GroupId": "AGPA56GL7R633GXLFFOKO",
            "Arn": "arn:aws:iam::958205497271:group/admin",
            "CreateDate": "2022-12-20T22:22:41+00:00"
        },
        {
            "Path": "/",
            "GroupName": "development",
            "GroupId": "AGPA56GL7R63UUXJ376JE",
            "Arn": "arn:aws:iam::958205497271:group/development",
            "CreateDate": "2022-12-20T22:48:17+00:00"
        }
    ]
}
```

```
    "Users": [
        {
            "Path": "/",
            "UserName": "admin-1",
            "UserId": "AIDA56GL7R635IXOZAUM3",
            "Arn": "arn:aws:iam::958205497271:user/admin-1",
            "CreateDate": "2022-12-20T23:42:56+00:00"
        },
        {
            "Path": "/",
            "UserName": "dev-user",
            "UserId": "AIDA56GL7R634MX2PMN7G",
            "Arn": "arn:aws:iam::958205497271:user/dev-user",
            "CreateDate": "2022-12-21T01:41:24+00:00",
            "PasswordLastUsed": "2022-12-21T01:56:09+00:00"
        },
        {
            "Path": "/",
            "UserName": "dmin2-prog",
```

```
            "CreateDate": "2022-12-21T01:41:24+00:00",
            "PasswordLastUsed": "2022-12-21T01:56:09+00:00"
        },
        {
            "Path": "/",
            "UserName": "dmin2-prog",
            "UserId": "AIDA56GL7R633KINJ4DVK",
            "Arn": "arn:aws:iam::958205497271:user/dmin2-prog",
            "CreateDate": "2022-12-21T00:03:13+00:00"
        },
        {
            "Path": "/",
            "UserName": "Esraa_Ahmed",
            "UserId": "AIDA56GL7R635RXLH5PVR",
            "Arn": "arn:aws:iam::958205497271:user/Esraa_Ahmed",
            "CreateDate": "2022-12-20T21:13:07+00:00",
            "PasswordLastUsed": "2022-12-22T16:12:43+00:00"
        }
    ]
}
(END)
```

- **in the development group create user with name dev-user with programmatic and Admin access**



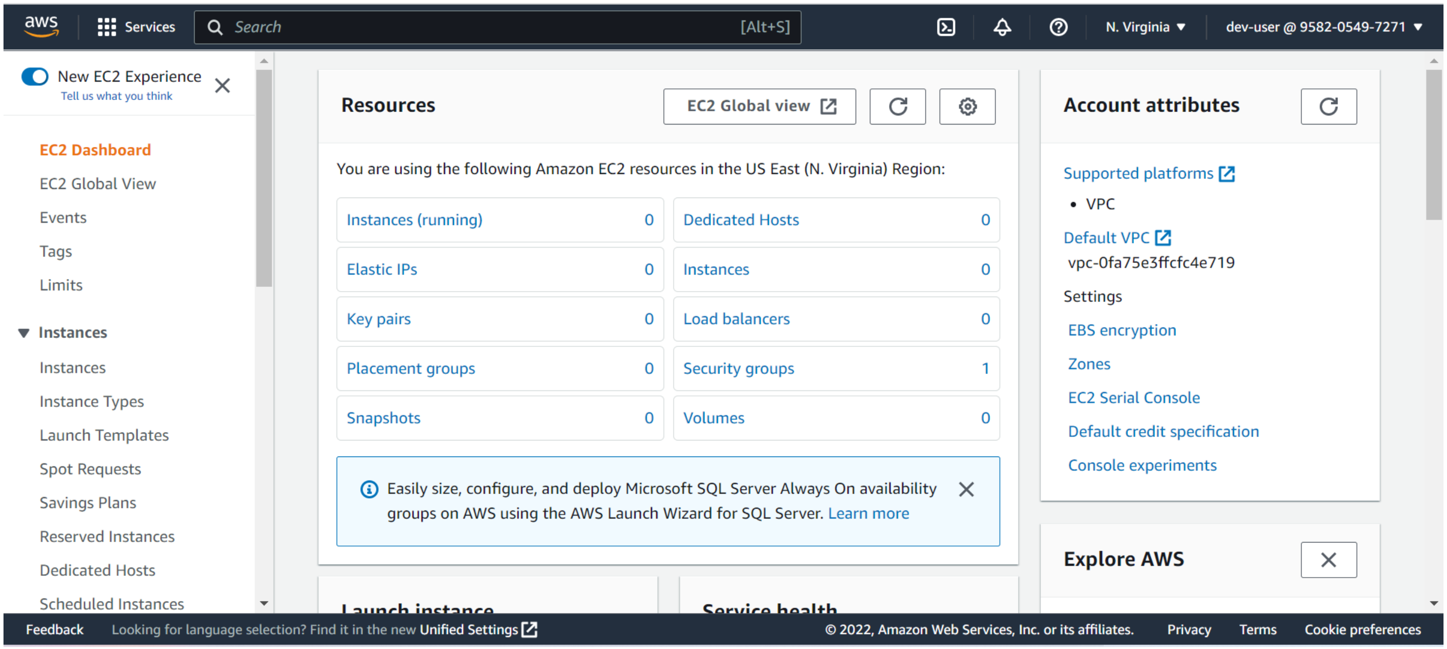
User ARN	arn:aws:iam::958205497271:user/dev-user
Path	/
Creation time	2022-12-21 03:41 UTC+0200

▼ Permissions policies (2 policies applied)

Policy name ▼	Policy type ▼	
Attached directly		
▸ AdministratorAccess	AWS managed policy	✖
Attached from group		
▸ AmazonS3FullAccess	AWS managed policy from group development	✖

- **try to access aws using it (take a screenshot from accessing ec2 and s3 console)**

- **ec2**



Resources

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

Instances (running)	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0
Key pairs	0	Load balancers	0
Placement groups	0	Security groups	1
Snapshots	0	Volumes	0

ⓘ Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more

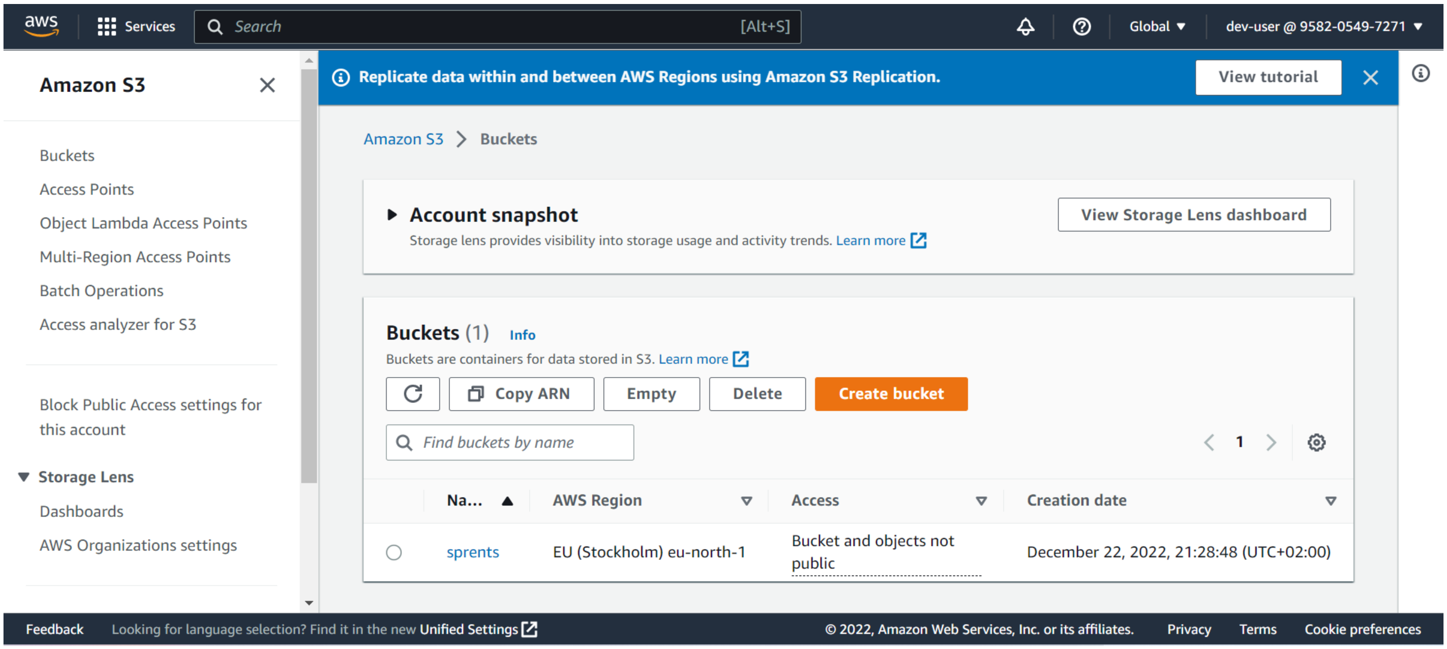
Account attributes

Supported platforms
- VPC

Default VPC
vpc-0fa75e3ffcfc4e719

Settings
EBS encryption
Zones
EC2 Serial Console
Default credit specification
Console experiments

- s3



Replicate data within and between AWS Regions using Amazon S3 Replication.

Amazon S3 > Buckets

▸ Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets (1)

Buckets are containers for data stored in S3. Learn more

	Na... ▲	AWS Region	Access	Creation date
○	sprents	EU (Stockholm) eu-north-1	Bucket and objects not public	December 22, 2022, 21:28:48 (UTC+02:00)

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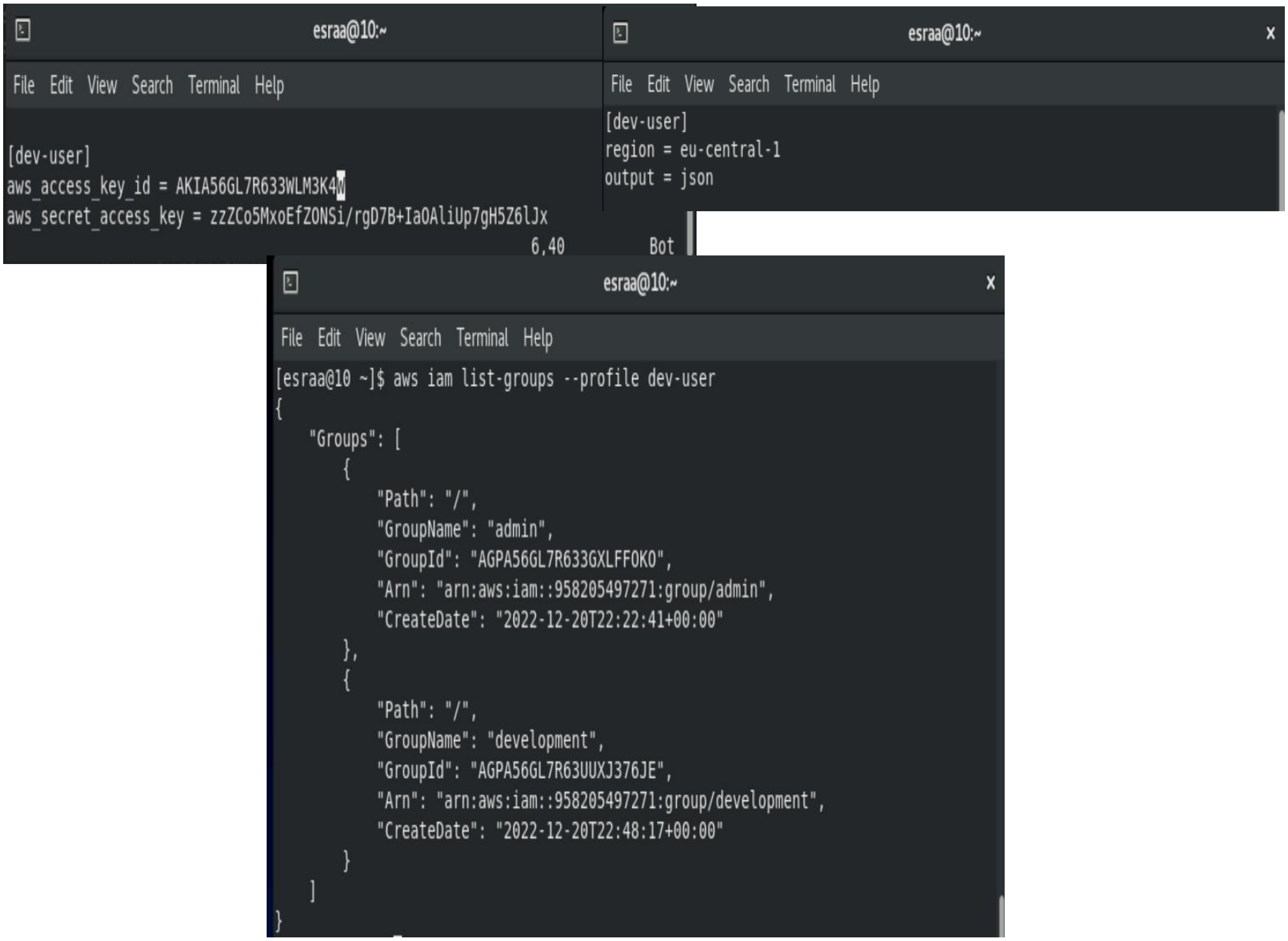
- **Also access cli using it and try to get all users and groups using it**


esraa@10:~
File Edit View Search Terminal Help
esraa@10:~
File Edit View Search Terminal Help
esraa@10:~
File Edit View Search Terminal Help

```
[dev-user]
aws_access_key_id = AKIA56GL7R633WLM3K4W
aws_secret_access_key = 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
                                                      6,40          Bot
```

```
[dev-user]
region = eu-central-1
output = json
```

```
[esraa@10 ~]$ aws iam list-groups --profile dev-user
{
    "Groups": [
        {
            "Path": "/",
            "GroupName": "admin",
            "GroupId": "AGPA56GL7R633GXLFFOKO",
            "Arn": "arn:aws:iam::958205497271:group/admin",
            "CreateDate": "2022-12-20T22:22:41+00:00"
        },
        {
            "Path": "/",
            "GroupName": "development",
            "GroupId": "AGPA56GL7R63UUXJ376JE",
            "Arn": "arn:aws:iam::958205497271:group/development",
            "CreateDate": "2022-12-20T22:48:17+00:00"
        }
    ]
}
```