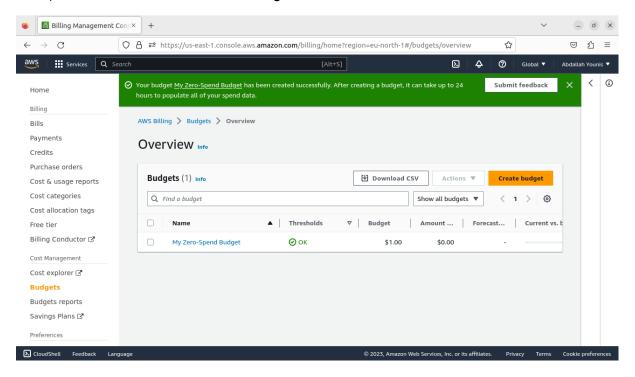## 1-) Create aws account and set billing alarm

- Create 2 groups one admin and one for development
- In the admin group it has admin permission, and in the development only access to s3

First Screenshot

Identity and Access Management (IAM)

Search IAM

- Dashboard

Access management
- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports
- Access analyzer
  - Archive rules
  - Analyzers
  - Settings

IAM > Users

Users (3) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Delete | Add users

Find users by username or access key

	User name	Groups	Last activity	MFA	Password age
☐	Admin-1	Admin	✅ 1 hour ago	Virtual	✅ 1 hour ago
☐	Admin2-Prog	Admin	✅ 22 minutes ago	None	None
☐	Dev-User	Development	✅ 20 minutes ago	None	✅ 39 minutes ago

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Second Screenshot

Identity and Access Management (IAM)

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Admin

Delete

Summary

Edit

User group name	Creation time	ARN
Admin	May 31, 2023, 16:07 (UTC+03:00)	arn:aws:iam::721015883085:group/Admin

Users | **Permissions** | Access Advisor

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 AWS services and resources.

CloudShell | Feedback | Language

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← → C   ⛉ 🔒 ⇄ https://us-east-1.console.aws.**amazon**.com/iamv2/home?region=eu-north-1#/groups/details/Develo ☆

Services   🔍 Search   [Alt+S]   Global ▼   Abdallah Younis ▼

Identity and Access Management (IAM)   ✕

🔍 Search IAM

Dashboard

▼ **Access management**

User groups

Users

Roles

Policies

Identity providers

Account settings

▼ **Access reports**

Access analyzer

Archive rules

Analyzers

Settings

Development   Delete

Summary   Edit

User group name	Creation time	ARN
Development	May 31, 2023, 16:07 (UTC+03:00)	⧉ arn:aws:iam::721015883085:group/Development

Users   **Permissions**   Access Advisor

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.   ‹ 1 ›   ⚙

☐	Policy name ↗	▽	Type	▽	Description
☐	⊞ EC2-S3		Customer managed		

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← → C   ⛉ 🔒 ⇄ https://eu-north-1.console.aws.**amazon**.com/ec2/home?region=eu-north-1#Home: ☆

Services   🔍 Search   [Alt+S]   🔔 ❓   Stockholm ▼   Dev-User @ 7210-1588-3085 ▼

◉ New EC2 Experience
Tell us what you think   ✕

EC2 Dashboard

EC2 Global View

Events

Limits

▼ **Instances**

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ **Images**

AMIs

AMI Catalog

▼ **Elastic Block Store**

Resources   EC2 Global view ↗   ⟳   ⚙

You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

Instances (running)	0	Auto Scaling Groups ⊗ API Error
Dedicated Hosts ⊗ API Error		Elastic IPs ⊗ API Error
Instances ⊗ API Error		Key pairs ⊗ API Error
Load balancers ⊗ API Error		Placement groups ⊗ API Error
Security groups ⊗ API Error		Snapshots ⊗ API Error
Volumes ⊗ API Error		

ⓘ Learn more about the latest in AWS Compute from AWS re:Invent by viewing the EC2 Videos.   ✕

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

Service health
⟳

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

Additional information ↗

```
younis@younis-HP-ProBook-450-G2:~$ aws configure
AWS Access Key ID [None]:
AWS Secret Access Key [None]:
Default region name [None]:
Default output format [None]:
younis@younis-HP-ProBook-450-G2:~$ aws iam list-users
{
    "Users": [
        {
            "Path": "/",
            "UserName": "Admin-1",
            "UserId": "AIDA2PX7FIVGVB46YXJ2S",
            "Arn": "arn:aws:iam::721015883085:user/Admin-1",
            "CreateDate": "2023-05-31T13:37:19Z",
            "PasswordLastUsed": "2023-05-31T13:50:41Z"
        },
        {
            "Path": "/",
            "UserName": "Admin2-Prog",
            "UserId": "AIDA2PX7FIVGVOTFIOIAU",
            "Arn": "arn:aws:iam::721015883085:user/Admin2-Prog",
            "CreateDate": "2023-05-31T13:53:58Z"
        },
        {
            "Path": "/",
            "UserName": "Dev-User",
            "UserId": "AIDA2PX7FIVG3YX4PQVUO",
            "Arn": "arn:aws:iam::721015883085:user/Dev-User",
            "CreateDate": "2023-05-31T14:25:07Z",
            "PasswordLastUsed": "2023-05-31T14:29:12Z"
        }
    ]
}
younis@younis-HP-ProBook-450-G2:~$
```

```
younis@younis-HP-ProBook-450-G2:~$ aws iam list-groups
{
    "Groups": [
        {
            "Path": "/",
            "GroupName": "Admin",
            "GroupId": "AGPA2PX7FIVGZRG3U75QD",
            "Arn": "arn:aws:iam::721015883085:group/Admin",
            "CreateDate": "2023-05-31T13:07:00Z"
        },
        {
            "Path": "/",
            "GroupName": "Development",
            "GroupId": "AGPA2PX7FIVG2KKMFTV5G",
            "Arn": "arn:aws:iam::721015883085:group/Development",
            "CreateDate": "2023-05-31T13:07:48Z"
        }
    ]
}
younis@younis-HP-ProBook-450-G2:~$
```

```
younis@younis-HP-ProBook-450-G2:~$ aws configure
AWS Access Key ID [****************G2FA]: AKIA2PX7FIVG4J3VPRBU
AWS Secret Access Key [****************3sgw]: 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
Default region name [None]:
Default output format [None]:
younis@younis-HP-ProBook-450-G2:~$ aws iam list-users

An error occurred (AccessDenied) when calling the ListUsers operation: User: arn:aws:iam::721015883085:user/Dev-User is not authorized to perf
orm: iam:ListUsers on resource: arn:aws:iam::721015883085:user/ because no identity-based policy allows the iam:ListUsers action
younis@younis-HP-ProBook-450-G2:~$ aws iam list-groups

An error occurred (AccessDenied) when calling the ListGroups operation: User: arn:aws:iam::721015883085:user/Dev-User is not authorized to per
form: iam:ListGroups on resource: arn:aws:iam::721015883085:group/ because no identity-based policy allows the iam:ListGroups action
younis@younis-HP-ProBook-450-G2:~$
```