

1- Create aws account and set billing alarm

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You can now create a budget from a [template](#), or explore hands-on [tutorials](#) to configure simple or advanced budgets. [Submit feedback](#) [Learn more](#)

✓ Your budget **Task01** has been created successfully. After creating a budget, it can take up to 24 hours to populate all of your spend data. [Submit feedback](#)

Billing Console > Budgets > Overview

Overview

Budgets (1) [Info](#)

[Download CSV](#) [Actions](#) [Create budget](#)

Find a budget [Show all budgets](#) < 1 >

<input type="checkbox"/>	Name	Thresholds	Budget	Amount ...	Forecast...	Current vs. budget
<input type="checkbox"/>	Task01	OK	\$2.00	\$0.00	-	

create 2 groups one admin and one for development

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

IAM > User groups

User groups (3) [Info](#)

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

Filter User groups by property or group name and press enter

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	admin	Loading	Defined	2 minutes ago
<input type="checkbox"/>	admins	1	Defined	1 year ago
<input type="checkbox"/>	development	Loading	Defined	Now

in 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 18, 2022, 00:11 (UTC+02:00)	ARN arn:aws:iam::471223834350:group/admin
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Users **Permissions** Access Advisor

Permissions policies (1) [Info](#)

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

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

create admin-1 user console access and mfa enabled

The screenshot shows the AWS Identity and Access Management (IAM) console. At the top, there are two notification banners: a blue one about the new Users list experience and a green one stating 'The user admin-1 have been created.' The left sidebar contains navigation links for Dashboard, Access management (with sub-links for User groups, Users, Roles, Policies, Identity providers, and Account settings), and other IAM features. The main content area displays the 'Users' list with a table containing one user, 'admin-1'. Below the table, the 'Summary' page for 'admin-1' is shown, including details like User ARN, Path, and Creation time. The 'Groups' tab is selected, showing that the user is a member of the 'admin' group with 'AdministratorAccess' permissions.

Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

Users (2) Info

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

Find users by username or access key

	User name	Groups	Last activity	MFA	Password ...	Active
<input type="checkbox"/>	admin-1	None	Never	None	Now	-

Summary

User ARN: arn:aws:iam::471223834350:user/admin-1

Path: /

Creation time: 2022-12-17 23:14 UTC+0200

Permissions Groups (1) Tags Security credentials Access Advisor

Add user to groups

Group name	Attached permissions
admin	AdministratorAccess

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

```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]# aws iam list-users --profile=sprints  
{  
  "Users": [  
    {  
      "Path": "/",  
      "UserName": "admin-1",  
      "UserId": "AIDA5HNCVWSGBGNRUHCA",  
      "Arn": "arn:aws:iam::909263615116:user/admin-1",  
      "CreateDate": "2022-12-18T12:59:47+00:00"  
    },  
    {  
      "Path": "/",  
      "UserName": "admin2-prog",  
      "UserId": "AIDA5HNCVWSGHL4H6ZLAK",  
      "Arn": "arn:aws:iam::909263615116:user/admin2-prog",  
      "CreateDate": "2022-12-19T08:14:53+00:00"  
    },  
    {  
      "Path": "/",  
      "UserName": "test-sprints-console",  
      "UserId": "AIDA5HNCVWSGIRKMADHCF",  
      "Arn": "arn:aws:iam::909263615116:user/test-sprints-console",  
      "CreateDate": "2022-12-18T11:49:03+00:00",  
      "PasswordLastUsed": "2022-12-19T08:05:09+00:00"  
    }  
  ],  
  "...skipping..."  
}
```

```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]# aws iam list-groups --profile=sprints  
{  
  "Groups": [  
    {  
      "Path": "/",  
      "GroupName": "Admin",  
      "GroupId": "AGPA5HNCVWSGGFD3BK4AC",  
      "Arn": "arn:aws:iam::909263615116:group/Admin",  
      "CreateDate": "2022-12-18T12:54:50+00:00"  
    },  
    {  
      "Path": "/",  
      "GroupName": "development",  
      "GroupId": "AGPA5HNCVWSGEWASVUDQM",  
      "Arn": "arn:aws:iam::909263615116:group/development",  
      "CreateDate": "2022-12-18T12:56:25+00:00"  
    }  
  ]  
}
```

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)

The image shows two screenshots of the AWS Management Console. The top screenshot displays the EC2 Dashboard for the US East (N. Virginia) Region. It lists various EC2 resources, many of which show an 'API Error' status. A 'Launch instance' button is visible. The bottom screenshot shows the 'development' IAM group in the 'Identity and Access Management (IAM)' console. It displays the group's summary, including its name, creation time, and ARN. Below the summary, there is a section for 'Users in this group' with a search bar and a table listing users. The table has columns for 'User name', 'Groups', 'Last activity', and 'Creation time'. A user named 'dev-user' is listed with '1' group, 'None' last activity, and 'Now' creation time. The 'dev-user' is currently unchecked. The 'dev-user' is listed with '1' group, 'None' last activity, and 'Now' creation time. The 'dev-user' is currently unchecked.

EC2 Dashboard

Resources

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

Instances (running)	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				

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

Identity and Access Management (IAM)

development

Summary

User group name: development

Creation time: December 18, 2022, 14:56 (UTC+02:00)

ARN: arn:aws:iam:909263615116:group/development

Users in this group (1)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

User name	Groups	Last activity	Creation time
dev-user	1	None	Now

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

```
File Edit View Search Terminal Help
[root@localhost ~]# aws iam list-groups --profile=sprints2

An error occurred (AccessDenied) when calling the ListGroups operation: User: arn:aws:iam::909263615116:user/dev-user is not authorized to perform: iam:ListGroups on resource: arn:aws:iam::909263615116:group/ because no identity-based policy allows the iam:ListGroups action
[root@localhost ~]#
[root@localhost ~]#
```