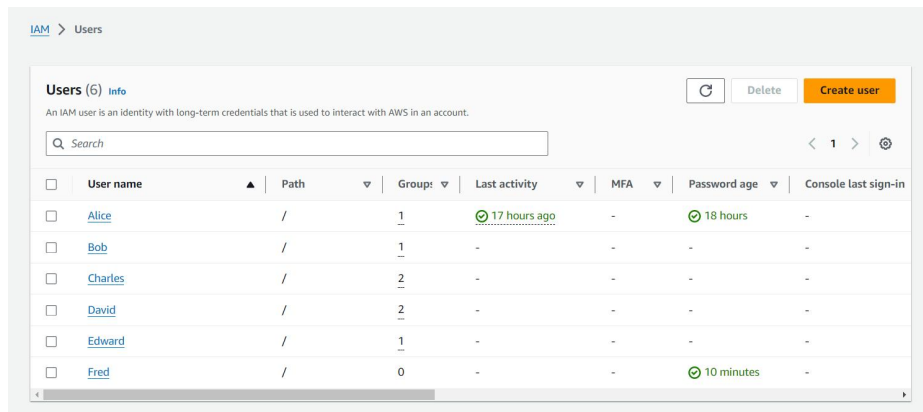


Create 6 IAM Users:

1. Alice
2. Bob
3. Charles
4. David
5. Edward
6. Fred

SOLUTION:-

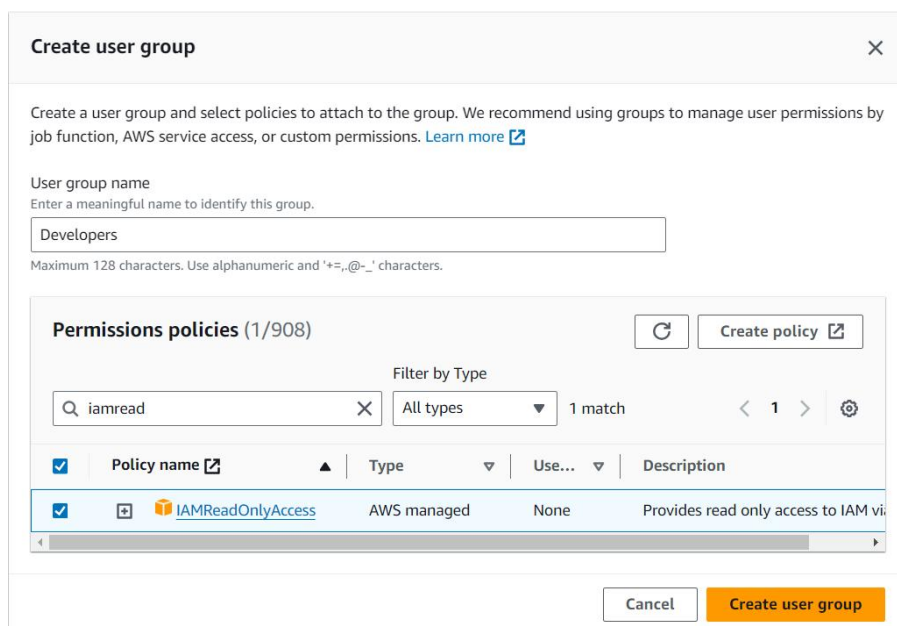


Create 3 groups:

1. Developers

Assign the "IAMReadOnlyAccess" policy to the Developers group.

SOLUTION:-



## 2. Operations

Assign the "IAMReadOnlyAccess" policy to the Operations group.

SOLUTION:-

Create user group

Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

User group name  
Enter a meaningful name to identify this group.  
  
Maximum 128 characters. Use alphanumeric and '+=,.-' characters.

Permissions policies (1/909)

Filter by Type  
All types 1 match

<input checked="" type="checkbox"/>	Policy name	Type	Use...	Description
<input checked="" type="checkbox"/>	IAMReadOnlyAccess	AWS managed	Permis...	Provides read only access to IAM vi...

Cancel Create user group

## 3. Audit-Team

Assign the "IAMFullAccess" policy to the Audit-Team group.

SOLUTION:-

Create user group

Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

User group name  
Enter a meaningful name to identify this group.  
  
Maximum 128 characters. Use alphanumeric and '+=,.-' characters.

Permissions policies (1/909)

Filter by Type  
All types 1 match

<input checked="" type="checkbox"/>	Policy name	Type	Use...	Description
<input checked="" type="checkbox"/>	IAMFullAccess	AWS managed	None	Provides full access to IAM via the A...

Cancel Create user 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.

< 1 > ⚙

<input type="checkbox"/>	Group name ▲	Users ▼	Permissions ▼	Creation time ▼
<input type="checkbox"/>	<a href="#">Audit-Team</a>	2	⌂ Loading	32 minutes ago
<input type="checkbox"/>	<a href="#">Developers</a>	3	⌂ Loading	18 hours ago
<input type="checkbox"/>	<a href="#">Operations</a>	2	⌂ Loading	29 minutes ago

Add Alice, Bob, and Charles to the Developers group.

SOLUTION:-

### Developers [Info](#)

[Delete](#)

**Summary** [Edit](#)

User group name Developers	Creation time January 10, 2024, 16:54 (UTC+05:30)	ARN arn:aws:iam::255851499496:group/Developers
-------------------------------	--	---

[Users \(3\)](#) | [Permissions](#) | [Access Advisor](#)

#### Users in this group (3)

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

< 1 > ⚙

<input type="checkbox"/>	User name	Groups	Last activity ▼	Creation time ▼
<input type="checkbox"/>	<a href="#">Alice</a>	1	None	18 hours ago
<input type="checkbox"/>	<a href="#">Bob</a>	1	None	32 minutes ago
<input type="checkbox"/>	<a href="#">Charles</a>	2	None	30 minutes ago

Add David and Edward to the Operations group.

SOLUTION:-

IAM > [User groups](#) > Operations

### Operations [Info](#)

[Delete](#)

**Summary** [Edit](#)

User group name Operations	Creation time January 11, 2024, 10:48 (UTC+05:30)	ARN arn:aws:iam::255851499496:group/Operations
-------------------------------	--	---

[Users \(2\)](#) | [Permissions](#) | [Access Advisor](#)

#### Users in this group (2)

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

< 1 > ⚙

<input type="checkbox"/>	User name	Groups	Last activity ▼	Creation time ▼
<input type="checkbox"/>	<a href="#">David</a>	2	None	26 minutes ago
<input type="checkbox"/>	<a href="#">Edward</a>	1	None	25 minutes ago

Add Charles and David to the Audit-Team group.

SOLUTION:-

[IAM](#) > [User groups](#) > Audit-Team

Audit-Team

Info

Delete

Summary

Edit

User group name

Audit-Team

Creation time

January 11, 2024, 10:45 (UTC+05:30)

ARN

arn:aws:iam::255851499496:group/Audit-Team

Users (2)

Permissions

Access Advisor

Users in this group (2)

Remove Add users

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

Q Search

< 1 >

☐

User name

▲

Groups

Last activity ▼

Creation time ▼

☐

[Charles](#)

2

None

31 minutes ago

☐

[David](#)

2

None

27 minutes ago

Assign an inline policy to Fred.

SOLUTION:-

[IAM](#) > [Users](#) > Fred

Fred

Info

Delete

Summary

ARN

arn:aws:iam::255851499496:user/Fred

Console access

Enabled without MFA

Access key 1

[Create access key](#)

Created

January 11, 2024, 10:56 (UTC+05:30)

Last console sign-in

Never

Permissions

Groups

Tags

Security credentials

Access Advisor

Permissions policies (1)

Remove Add permissions ▼

Permissions are defined by policies attached to the user directly or through groups.

Q Search

Filter by Type

All types ▼

< 1 >

☐

Policy name

▲

Type

▼

Attached via

☐

IAM\_POLICY


Customer inline

Inline

Log into the AWS account as an IAM user, add MFA, install AWS CLI, configure it in the terminal, and list IAM user actions using CLI command.

SOLUTION:-

eu-north-1.signin.aws.amazon.com/oauth?client\_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code\_challenge=UOEaGuIF3BxVQpYEHVSA2bF3nyy6lAWdavPxk6XNjDU8code\_ch...



### Sign in as IAM user

Account ID (12 digits) or account alias

IAM user name

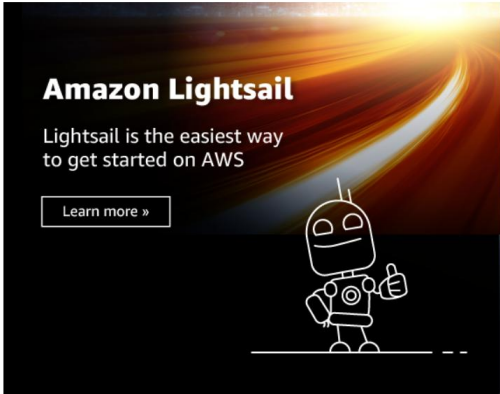
Password

☐ Remember this account

[Sign in](#)

[Sign in using root user email](#)

[Forgot password?](#)



**Amazon Lightsail**

Lightsail is the easiest way to get started on AWS

[Learn more »](#)

English

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Activate Windows  
Go to Settings to activate Windows.

[IAM](#) > [Users](#) > [Alice](#) > Assign MFA device

Step 1  
Select MFA device

Step 2  
Set up device

### Select MFA device [Info](#)




**MFA device name**

Device name  
Enter a meaningful name to identify this device.

Maximum 128 characters. Use alphanumeric and '+', '@', '-', '\_' characters.

**MFA device**

Select an MFA device to use, in addition to your username and password, whenever you need to authenticate.

- ☒  **Authenticator app**  
Authenticate using a code generated by an app installed on your mobile device or computer.
- ☐  **Security Key**  
Authenticate using a code generated by touching a YubiKey or other supported FIDO security key.
- ☐  **Hardware TOTP token**  
Authenticate using a code displayed on a hardware Time-based one-time password (TOTP) token.

[IAM](#) > [Users](#) > [Alice](#) > Assign MFA device

Step 1  
[Select MFA device](#)

Step 2  
**Set up device**

## Set up device info


### Authenticator app

A virtual MFA device is an application running on your device that you can configure by scanning a QR code.

1

Install a compatible application such as Google Authenticator, Duo Mobile, or Authy app on your mobile device or computer.  
[See a list of compatible applications](#)

2



Open your authenticator app, choose **Show QR code** on this page, then use the app to scan the code. Alternatively, you can type a secret key. [Show secret key](#)

3

Fill in two consecutive codes from your MFA device.

MFA code 1

MFA code 2

Cancel

Previous




Add MFA

[IAM](#) > [Users](#) > [Alice](#)

Alice info

Delete

### Summary

ARN  arn:aws:iam::255851499496:user/Alice	Console access Enabled with MFA	Access key 1 AKIATXEPQ87UHWBZXNMA - Active  Used 18 hours ago, 18 hours old.
Created January 10, 2024, 16:54 (UTC+05:30)	Last console sign-in  Today	Access key 2 <a href="#">Create access key</a>



## Sign in as IAM user

Account ID (12 digits) or account alias

IAM user name

Password

☐ Remember this account

Sign in

[Sign in using root user email](#)

[Forgot password?](#)



# Multi-factor Authentication

Enter an MFA code to complete sign-in.

**MFA Code:**

**Submit**

[Cancel](#)

The screenshot displays the AWS Management Console Home page. The top navigation bar features the AWS logo, a search bar, and icons for various services including Elastic Kubernetes Service, Console Home, EC2, IAM, VPC, RDS, S3, Systems Manager, EFS, Athena, and ElastiCache. The user's profile, 'Alice @ sanya-1234', is shown in the top right corner. The main content area is divided into two sections. The left section, titled 'Recently visited', lists several services: IAM, VPC, Athena, AWS Backup, ElastiCache, EFS, and S3. The right section, titled 'Applications (0)', shows the current region as 'ap-south-1 (Current Region)' and indicates that there are no applications listed. A 'Create application' button is visible in this section. The page also includes a 'Reset to default layout' button and an 'Add widgets' button in the top right corner of the main content area.

```
root@DESKTOP-VIDGD8F:AWS# aws iam list-users
{
  "Users": [
    {
      "Path": "/",
      "UserName": "Alice",
      "UserId": "AIDATXEPQB7UDOUPMW5S2",
      "Arn": "arn:aws:iam::255851499496:user/Alice",
      "CreateDate": "2024-01-10T11:24:14Z",
      "PasswordLastUsed": "2024-01-11T05:53:49Z"
    },
    {
      "Path": "/",
      "UserName": "Bob",
      "UserId": "AIDATXEPQB7UGXQAEATLG",
      "Arn": "arn:aws:iam::255851499496:user/Bob",
      "CreateDate": "2024-01-11T05:13:42Z"
    },
    {
      "Path": "/",
      "UserName": "Charles",
      "UserId": "AIDATXEPQB7UMLTUPFPUJ",
      "Arn": "arn:aws:iam::255851499496:user/Charles",
      "CreateDate": "2024-01-11T05:15:43Z"
    },
    {
      "Path": "/",
      "UserName": "David",
      "UserId": "AIDATXEPQB7UA2J25Y00F",
      "Arn": "arn:aws:iam::255851499496:user/David",
      "CreateDate": "2024-01-11T05:20:09Z"
    },
    {
      "Path": "/",
      "UserName": "Edward",
      "UserId": "AIDATXEPQB7UBD5MS2MR6",
      "Arn": "arn:aws:iam::255851499496:user/Edward",
      "CreateDate": "2024-01-11T05:21:05Z"
    },
    {
      "Path": "/",
      "UserName": "Fred",
      "UserId": "AIDATXEPQB7UB6NZK2ERF",
      "Arn": "arn:aws:iam::255851499496:user/Fred",
      "CreateDate": "2024-01-11T05:26:57Z"
    }
  ]
}
root@DESKTOP-VIDGD8F:AWS#
```