AMITY SCHOOL OF ENGINERRING & TECHNOLOGY

AMITY
UNIVERSITY
MUMBAI

(Academic Year 2022-23)

LAB-3(a)

Create Admin IAM User and check for permissions & Create 3 groups and assign 6 users to these groups with separate permissions in each group. Check for the inheritance of permissions.

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Class: B.Tech(CSE) **Semester:** 7

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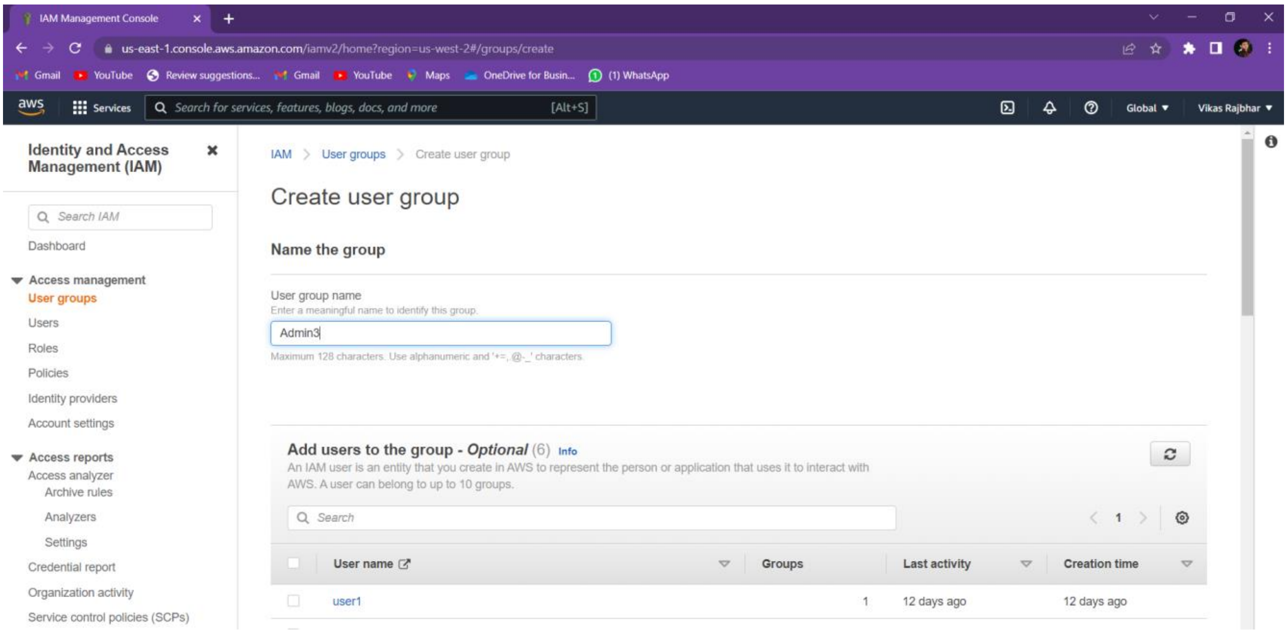
{Department of CSE}
ASET, AUM

AIM: Create Admin IAM User and check for permissions & Create 3 groups and assign 6 users to these groups with separate permissions in each group. Check for the inheritance of permissions.

Creating User Group -



Create user group

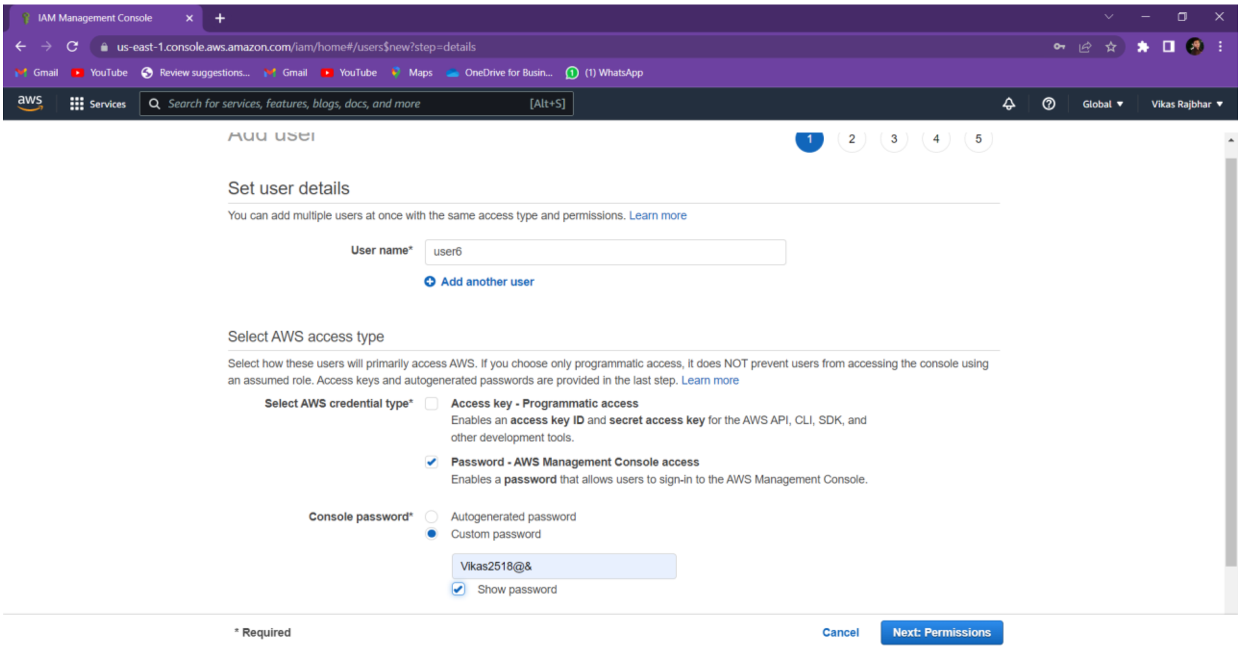
Name the group

User group name
Enter a meaningful name to identify this group.
Admin3
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.

Add users to the group - *Optional* (6) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS. A user can belong to up to 10 groups.

	User name	Groups	Last activity	Creation time
□	user1	1	12 days ago	12 days ago

Creating User



Set user details

You can add multiple users at once with the same access type and permissions. Learn more

User name* user6

Add another user

Select AWS access type

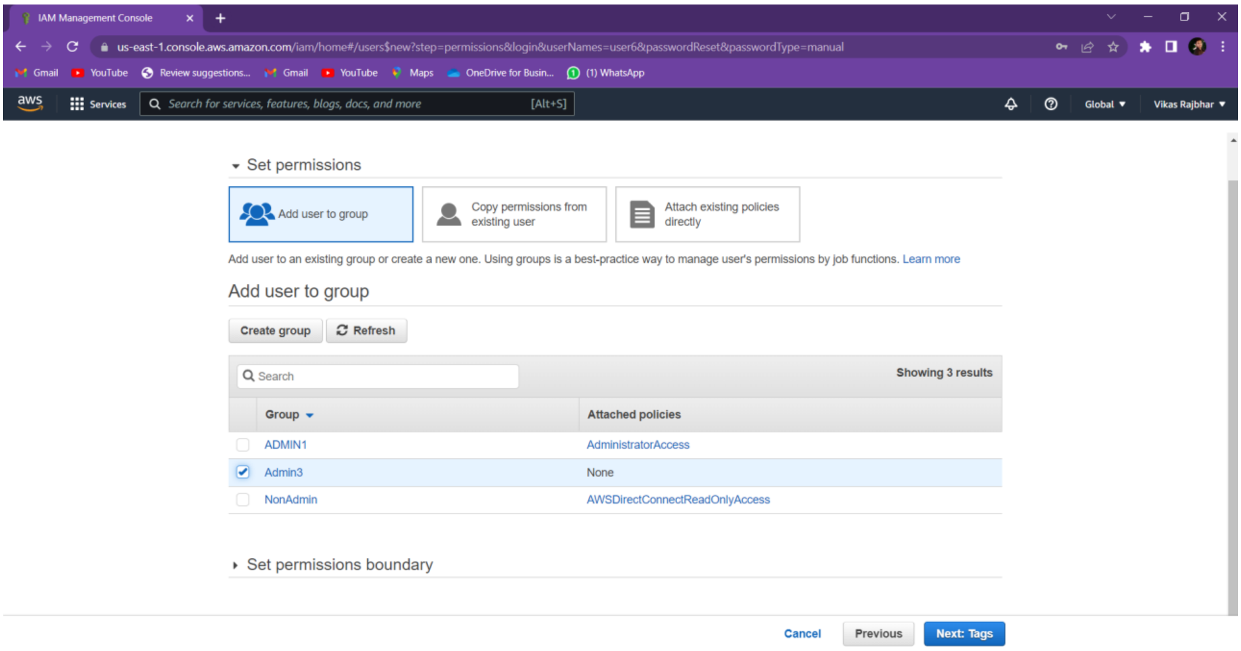
Select how these users will primarily access AWS. If you choose only programmatic access, it does NOT prevent users from accessing the console using an assumed role. Access keys and autogenerated passwords are provided in the last step. Learn more

Select AWS credential type*
□ **Access key - Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.
☑ **Password - AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password*
○ Autogenerated password
● Custom password
Vikas2518@&
☑ Show password

* Required

Adding user to group –



us-east-1.console.aws.amazon.com/iam/home#/users$new?step=permissions&login&userNames=user6&passwordReset&passwordType=manual

Set permissions

Add user to group | Copy permissions from existing user | Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. Learn more

Add user to group

Create group | Refresh

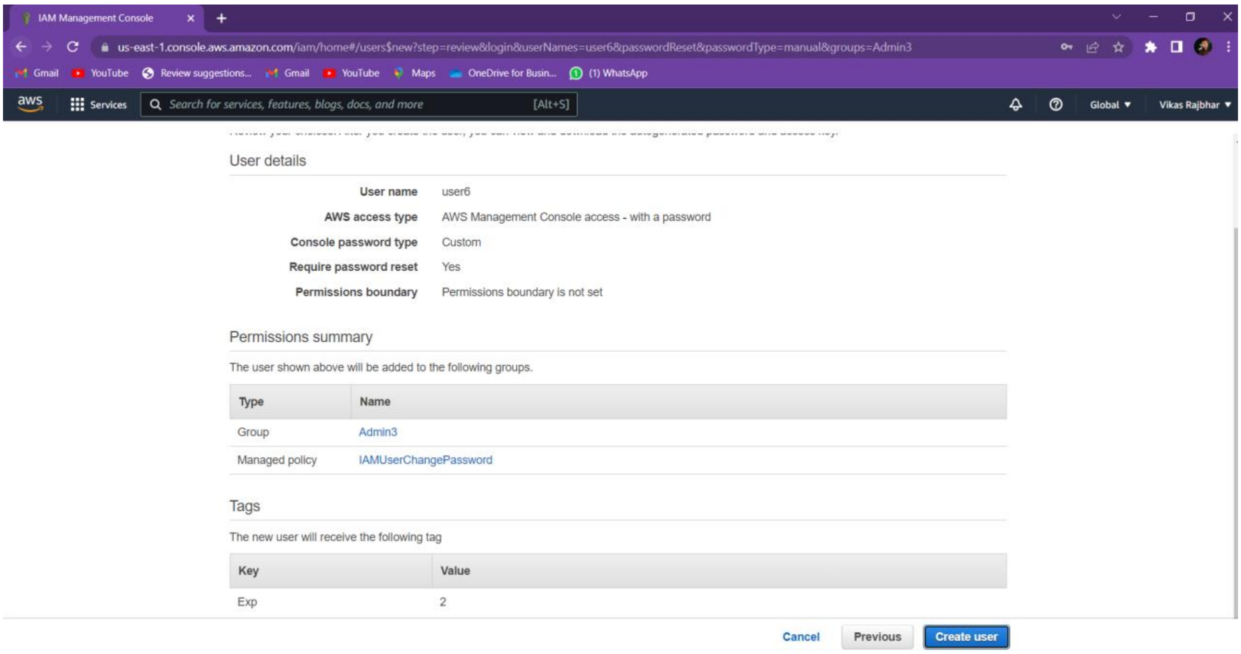
Search | Showing 3 results

	Group	Attached policies
□	ADMIN1	AdministratorAccess
☑	Admin3	None
□	NonAdmin	AWSDirectConnectReadOnlyAccess

Set permissions boundary

Cancel | Previous | Next: Tags

Here we can see the user details and key tags –



us-east-1.console.aws.amazon.com/iam/home#/users$new?step=review&login&userNames=user6&passwordReset&passwordType=manual&groups=Admin3

User details

User name	user6
AWS access type	AWS Management Console access - with a password
Console password type	Custom
Require password reset	Yes
Permissions boundary	Permissions boundary is not set

Permissions summary

The user shown above will be added to the following groups.

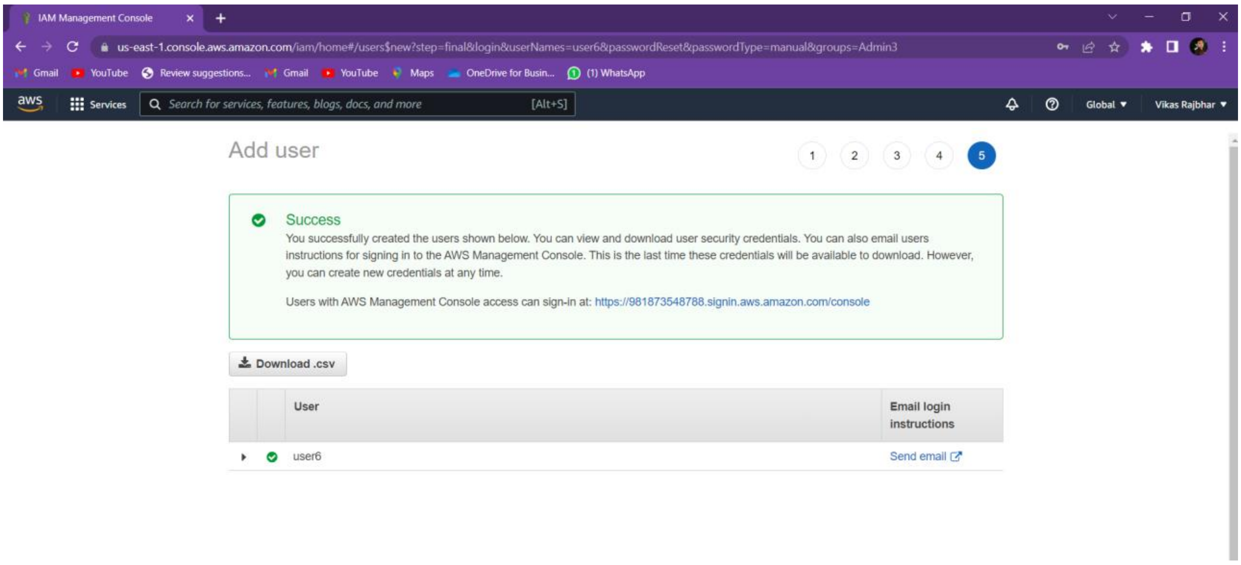
Type	Name
Group	Admin3
Managed policy	IAMUserChangePassword

Tags

The new user will receive the following tag

Key	Value
Exp	2

Cancel | Previous | Create user


IAM Management Console
us-east-1.console.aws.amazon.com/iam/home#/users$new?step=final&login&userNames=user6&passwordReset&passwordType=manual&groups=Admin3
Gmail
YouTube
Review suggestions...
Gmail
YouTube
Maps
OneDrive for Busin...
(1) WhatsApp
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Vikas Rajbhar
1
2
3
4
5

Add user

Success

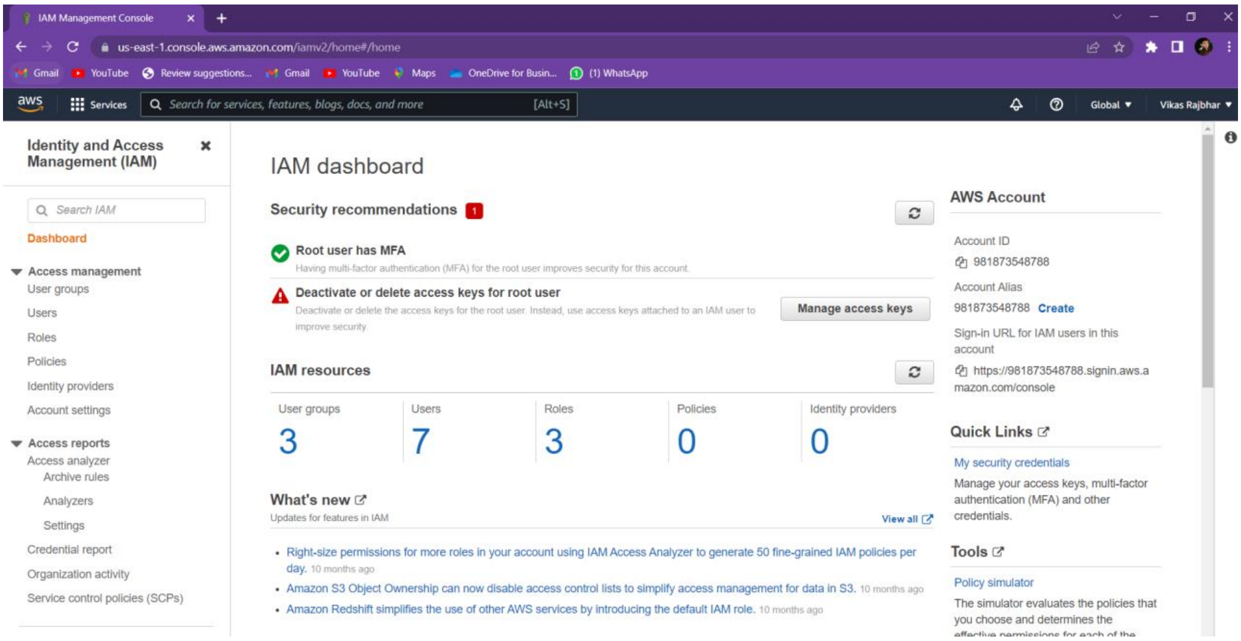
You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: https://981873548788.signin.aws.amazon.com/console

Download .csv

		User	Email login instructions
▸	✓	user6	Send email

In dashboard, We can see the number of user groups and users here.



IAM dashboard

Security recommendations 1

✓ Root user has MFA

Having multi-factor authentication (MFA) for the root user improves security for this account.

Deactivate or delete access keys for root user

Deactivate or delete the access keys for the root user. Instead, use access keys attached to an IAM user to improve security.

Manage access keys

IAM resources

User groups	Users	Roles	Policies	Identity providers
3	7	3	0	0

What's new

Updates for features in IAM

View all

- Right-size permissions for more roles in your account using IAM Access Analyzer to generate 50 fine-grained IAM policies per day. 10 months ago
- Amazon S3 Object Ownership can now disable access control lists to simplify access management for data in S3. 10 months ago
- Amazon Redshift simplifies the use of other AWS services by introducing the default IAM role. 10 months ago

AWS Account

Account ID

981873548788

Account Alias

981873548788 Create

Sign-in URL for IAM users in this account

https://981873548788.signin.aws.amazon.com/console

Quick Links

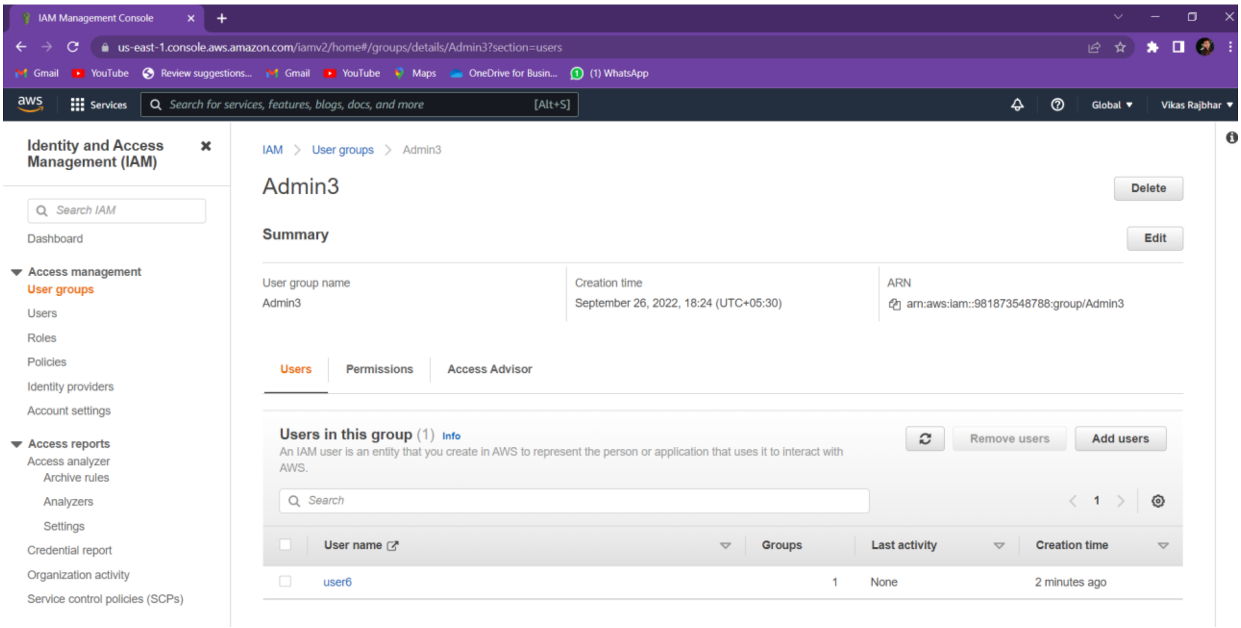
My security credentials

Manage your access keys, multi-factor authentication (MFA) and other credentials.

Tools

Policy simulator

The simulator evaluates the policies that you choose and determines the effective permissions for each of the


IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/Admin3?section=users
Gmail YouTube Review suggestions... Gmail YouTube Maps OneDrive for Busin... (1) WhatsApp
aws Services Search for services, features, blogs, docs, and more [Alt+S] Global Vikas Rajbhar
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
Credential report
Organization activity
Service control policies (SCPs)
IAM > User groups > Admin3
Delete
Edit
Users Permissions Access Advisor
Remove users Add users
Search
1

Admin3

Summary

User group name
Admin3

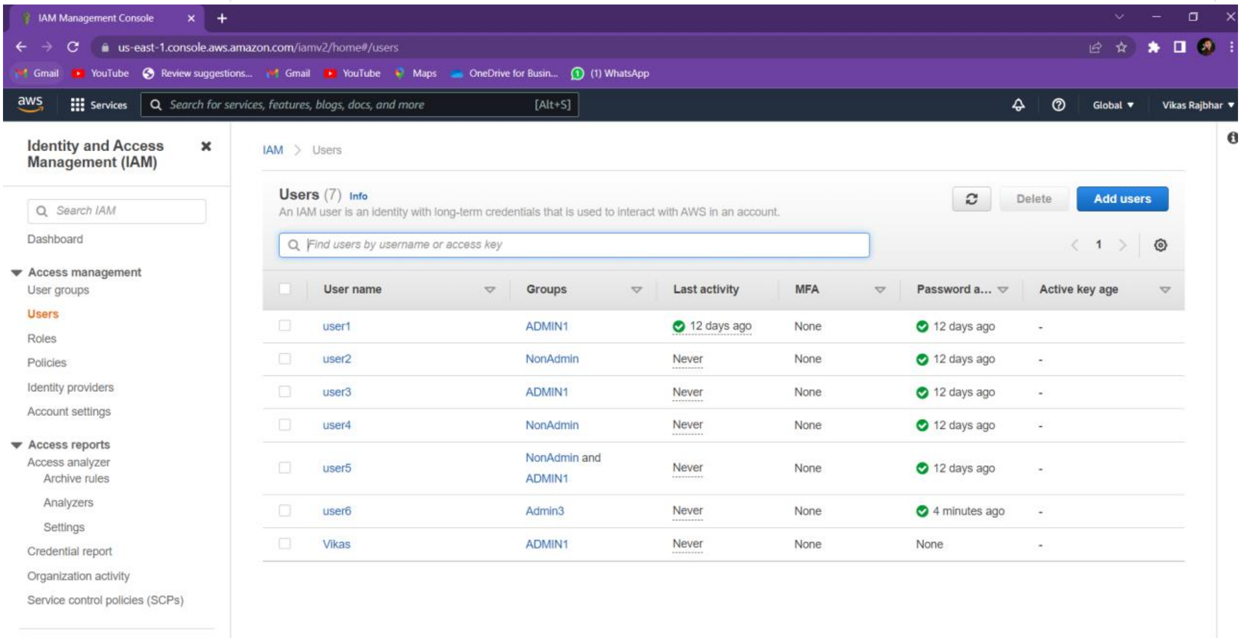
Creation time
September 26, 2022, 18:24 (UTC+05:30)

ARN
arn:aws:iam::981873548788:group/Admin3

Users in this group (1) Info

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

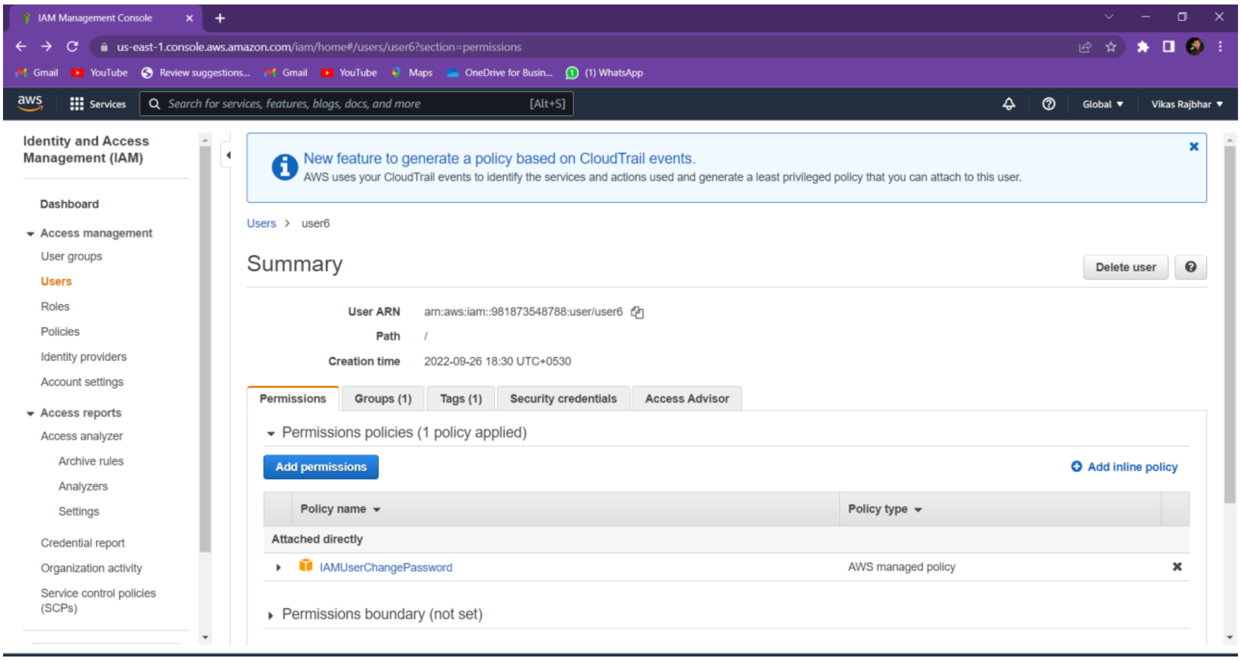
□	User name	Groups	Last activity	Creation time
□	user6	1	None	2 minutes ago


IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home#/users
Gmail YouTube Review suggestions... Gmail YouTube Maps OneDrive for Busin... (1) WhatsApp
aws Services Search for services, features, blogs, docs, and more [Alt+S] Global Vikas Rajbhar
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
Credential report
Organization activity
Service control policies (SCPs)
IAM > Users
Delete Add users
Find users by username or access key
1

Users (7) Info

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

□	User name	Groups	Last activity	MFA	Password a...	Active key age
□	user1	ADMIN1	✓ 12 days ago	None	✓ 12 days ago	-
□	user2	NonAdmin	Never	None	✓ 12 days ago	-
□	user3	ADMIN1	Never	None	✓ 12 days ago	-
□	user4	NonAdmin	Never	None	✓ 12 days ago	-
□	user5	NonAdmin and ADMIN1	Never	None	✓ 12 days ago	-
□	user6	Admin3	Never	None	✓ 4 minutes ago	-
□	Vikas	ADMIN1	Never	None	None	-



New feature to generate a policy based on CloudTrail events.
AWS uses your CloudTrail events to identify the services and actions used and generate a least privileged policy that you can attach to this user.

Users > user6

Summary

User ARN arn:aws:iam::981873548788:user/user6

Path /

Creation time 2022-09-26 18:30 UTC+0530

Permissions policies (1 policy applied)

Policy name	Policy type
Attached directly	
IAMUserChangePassword	AWS managed policy

Permissions boundary (not set)

Conclusion – IAM users and groups have been created successfully. The inheritance of policies via group inclusion has also been understood.