IAM

INSTALLED AWS CLI



TASK:

• How many policies can attach to one group?

You can assign IAM users to up to 10 groups. You can also attach up to 10 managed policies to each group, for a maximum of 120 policies.

Creating user

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User name

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

✓ Provide user access to the AWS Management Console - optional

If you're providing console access to a person, it's a best practice

to manage their access in IAM Identity Center.



Are you providing console access to a person?

User type

- Specify a user in Identity Center Recommended
 We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.
- I want to create an IAM user
 We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Console password

Autogenerated password

You can view the password after you create the user.

Custom password

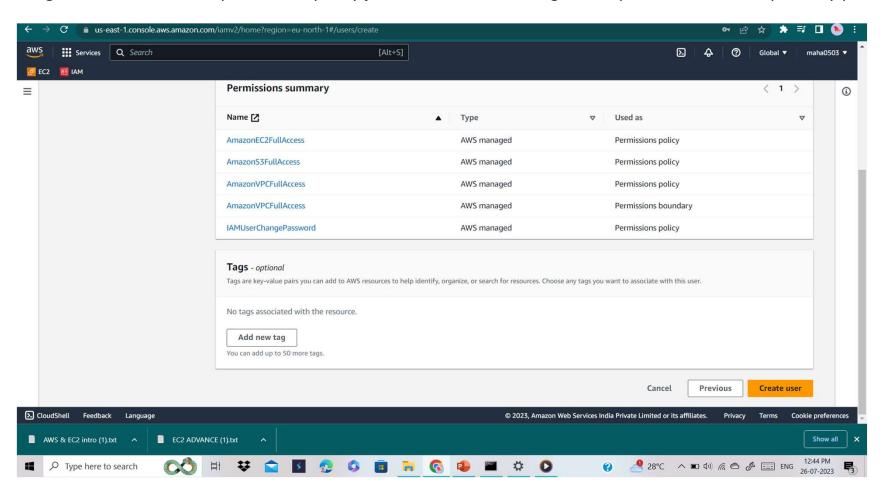
Enter a custom password for the user.

· Must be at least 8 characters long

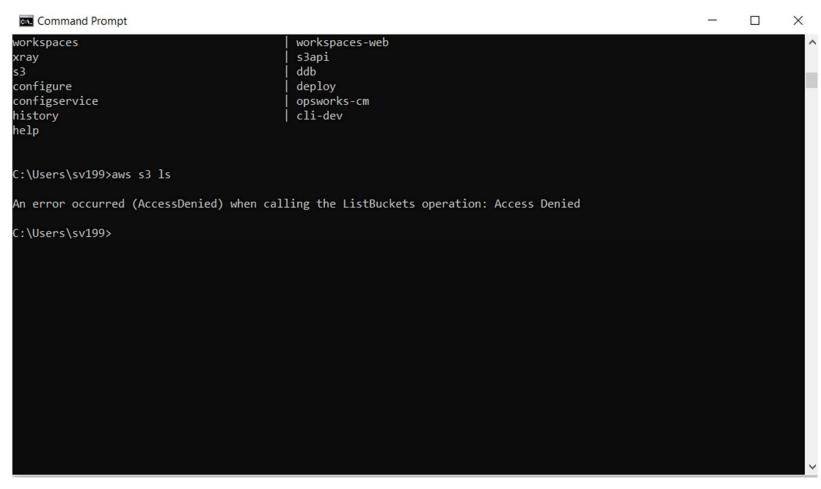
THE R. P. S. T. S. P. S. P. S. R. P. S. P.

Permission boundary:

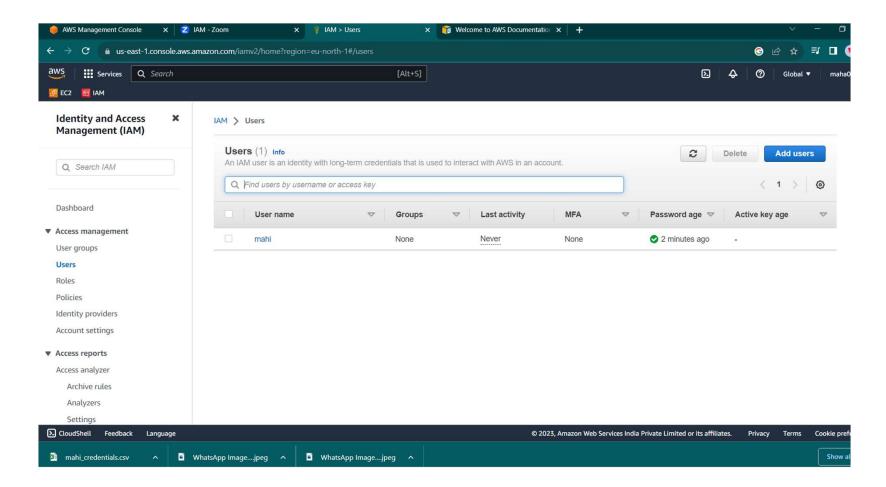
if the user gave permission policies to user which is ec2 full access, s3 full access and vpc full access and then set the Permission boundary for the same user as ec2 full access, and vpc full access. Then, that user won't able to access on s3 Eventhough the user have that permission policy just because we didn't give the permission in set boundary permission.



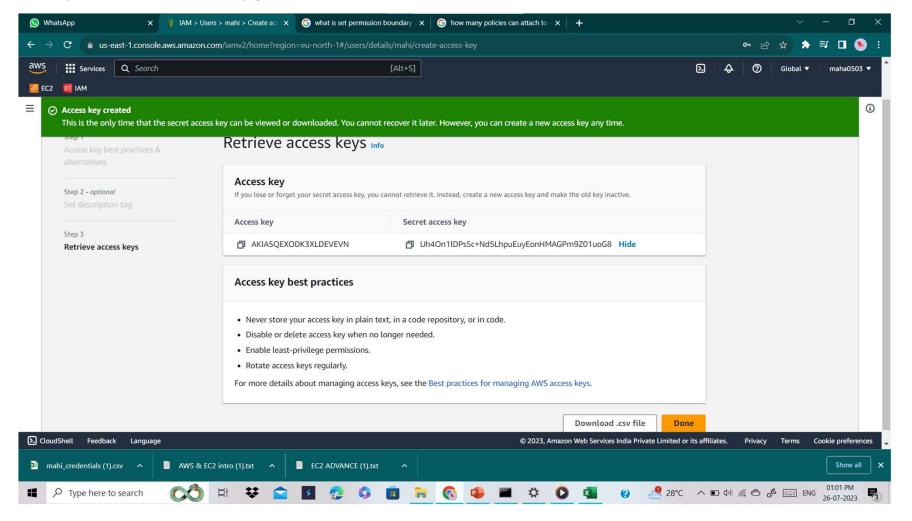
Gave s3-full access permission policy to user mahi but it shows access dinied because I set the boundary permission as Vpc-full access.



Created user and named as mahi



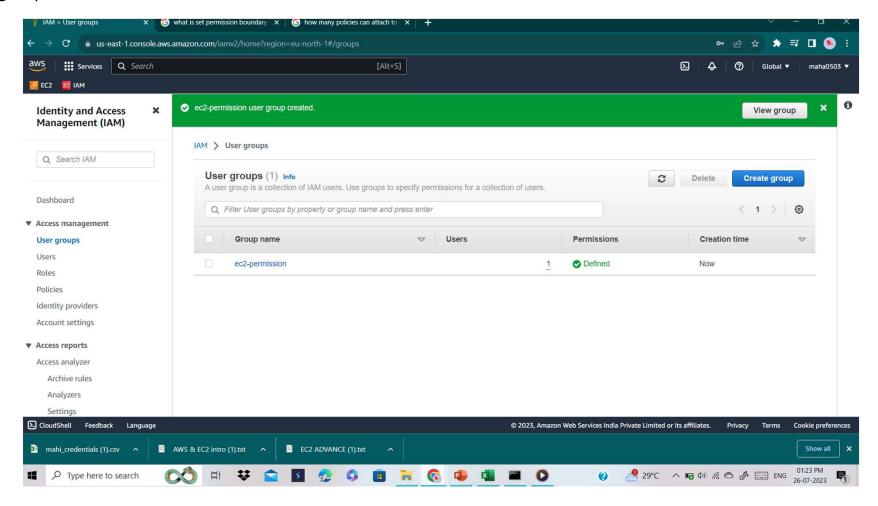
Access key and secret access key genetrated



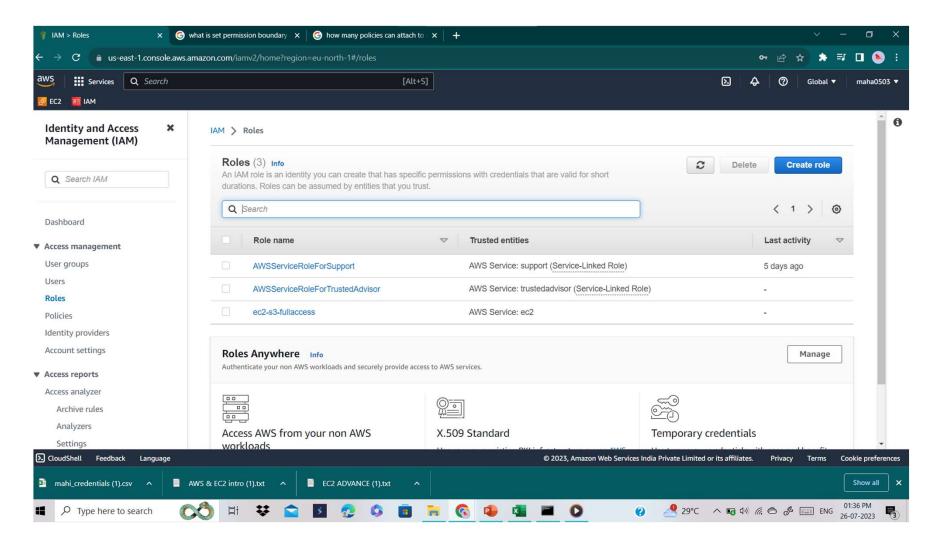
Command prompt

```
Command Prompt
                                                                                                                 ×
Microsoft Windows [Version 10.0.19045.3208]
(c) Microsoft Corporation. All rights reserved.
C:\Users\sv199>aws --version
aws-cli/2.13.3 Python/3.11.4 Windows/10 exe/AMD64 prompt/off
C:\Users\sv199>aws configure
AWS Access Key ID [************G23N]: AKIASQEXODK320UGG23N
AWS Secret Access Key [******************************Bme]: Ai4n14HBs7qmSyTkNxaD4B9oHPRbEr1RkVrx1Bme
Default region name [eu-west-2]: eu-west-2
Default output format [json]: json
C:\Users\sv199>aws s3 ls
An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied
C:\Users\sv199>aws ec2 ls
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:
  aws help
  aws <command> help
  aws <command> <subcommand> help
aws: error: argument operation: Invalid choice, valid choices are:
                                         accept-reserved-instances-exchange-quote
accept-address-transfer
accept-transit-gateway-multicast-domain-associations \mid accept-transit-gateway-peering-attachment
accept-transit-gateway-vpc-attachment | accept-vpc-endpoint-connections
```

user group created



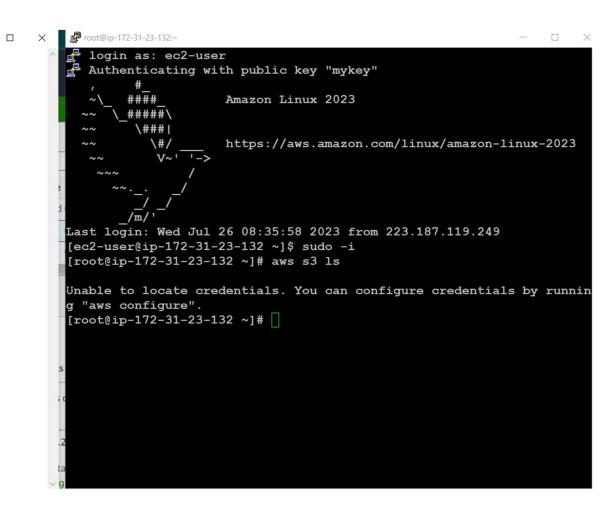
Role created: ec2-s3-fullaccess



Instance created with withrole and without role:

```
@ root@ip-172-31-18-127:~
                                                              □ X Proot@ip-172-31-23-132:~
Plogin as: ec2-user
Authenticating with
                                                                         login as: ec2-user
                                                                         Authenticating with public key "mykey"
  Authenticating with public key "mykey"
                      Amazon Linux 2023
                                                                               ####
                                                                                             Amazon Linux 2023
                      https://aws.amazon.com/linux/amazon-linux-
                                                                                             https://aws.amazon.com/linux/amazon-linux-20
[ec2-user@ip-172-31-18-127 ~]$ sudo -i
                                                                       [ec2-user@ip-172-31-23-132 ~]$ sudo -i
                                                                      [root@ip-172-31-23-132 ~]#
[root@ip-172-31-18-127 ~]#
```

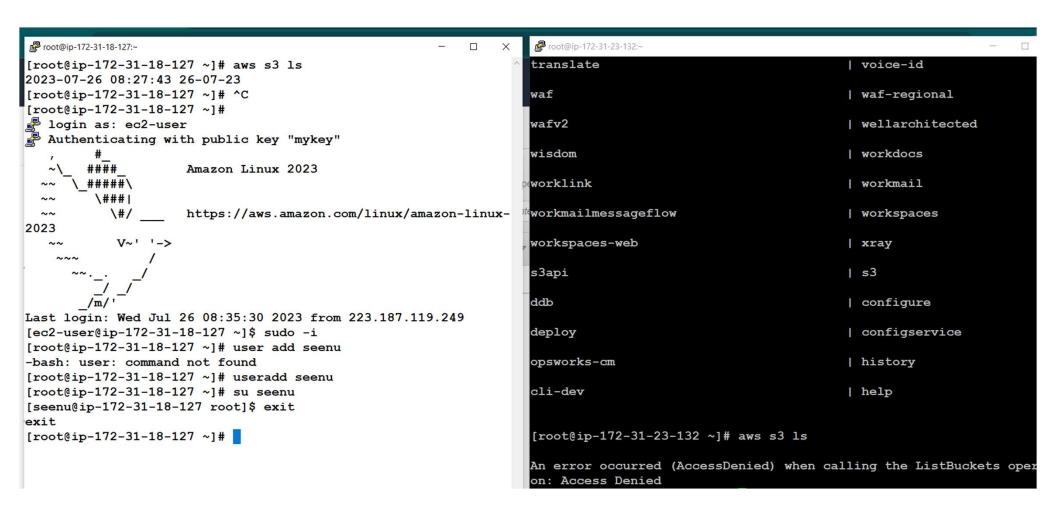
@root@ip-172-31-18-127:~
[root@ip-172-31-18-127 ~]# aws s3 ls 2023-07-26 08:27:43 26-07-23 [root@ip-172-31-18-127 ~]#



₽ root@ip-172-31-18-127:~

[root@ip-172-31-18-127 ~]# aws s3 ls 2023-07-26 08:27:43 26-07-23 [root@ip-172-31-18-127 ~]# ^C [root@ip-172-31-18-127 ~]# |

Proot@ip-172-31-23-132:~ AWS Access Key ID [None]: 🛃 login as: ec2-user Authenticating with public key "mykey" #### Amazon Linux 2023 \ #####\ \###1 https://aws.amazon.com/linux/amazon-linux-2023 ~~ Last login: Wed Jul 26 08:41:17 2023 from 223.187.119.249 [ec2-user@ip-172-31-23-132 ~]\$ sudo -i [root@ip-172-31-23-132 ~]# aws s3 ls Unable to locate credentials. You can configure credentials by runnin g "aws configure". [root@ip-172-31-23-132 ~]# aws configure AWS Access Key ID [None]: AKIASQEXODK3XLDEVEVN AWS Secret Access Key [None]: Uh4On1lDPs5c+Nd5LhpuEuyEonHMAGPm9Z01uoG Default region name [None]: eu-west-2 Default output format [None]: json [root@ip-172-31-23-132 ~]# aws s3 ls An error occurred (AccessDenied) when calling the ListBuckets operati on: Access Denied [root@ip-172-31-23-132 ~]#



IAM user can reset the password:

Go to IAM page --- > users --- > security credential --- > manage control access --- > enable console access -- > Keep existing password -- > apply (user must create new password at next sign in)

