

Assignment 2 – IAM :- User, Groups, Roles, Policies, GUI, CLI, Putty

Creating User:-

Users (1) Info

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

Search

<input type="checkbox"/>	User name	Path	Group:	Last activity	MFA	Pass
<input type="checkbox"/>	airindia	/	0	-	-	✓ 1

Group:-

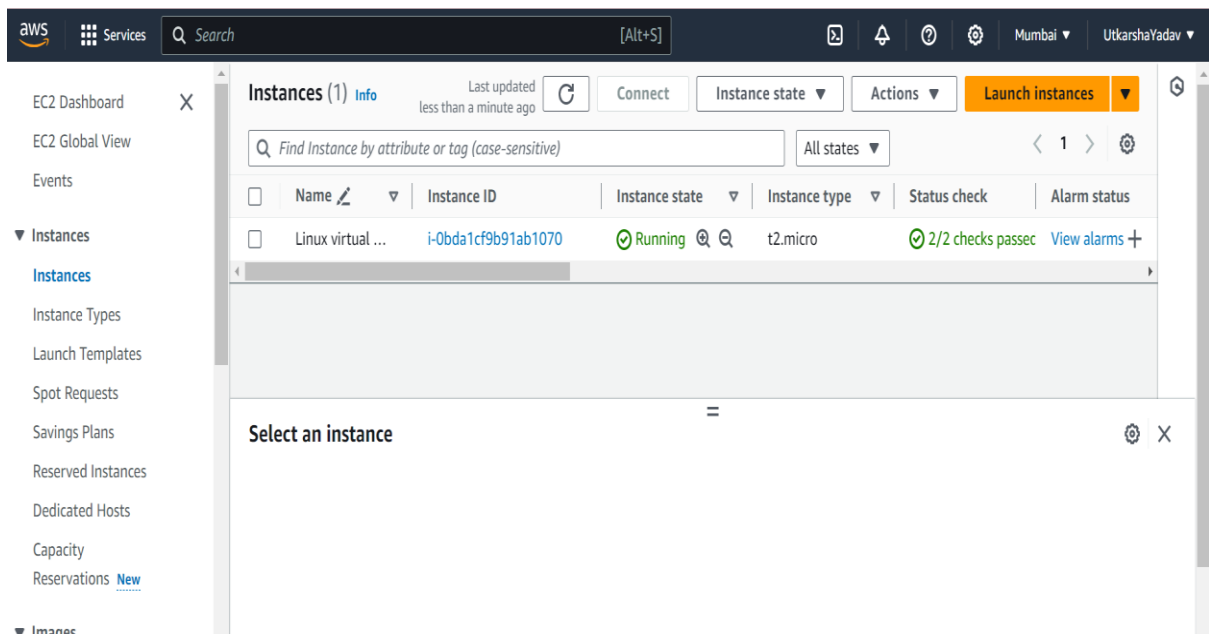
User groups (1) Info

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

Search

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	Airlines	1	✓ Defined	Now

Linux Instance in Mumbai Region



Create through CLI :- User

```
C:\Windows\System32>aws iam create-user --user-name utkarsha001
{
  "User": {
    "Path": "/",
    "UserName": "utkarsha001",
    "UserId": "AIDAU6GDWMCBQDE5IZSNV",
    "Arn": "arn:aws:iam::339712827523:user/utkarsha001",
    "CreateDate": "2024-09-22T17:04:53+00:00"
  }
}

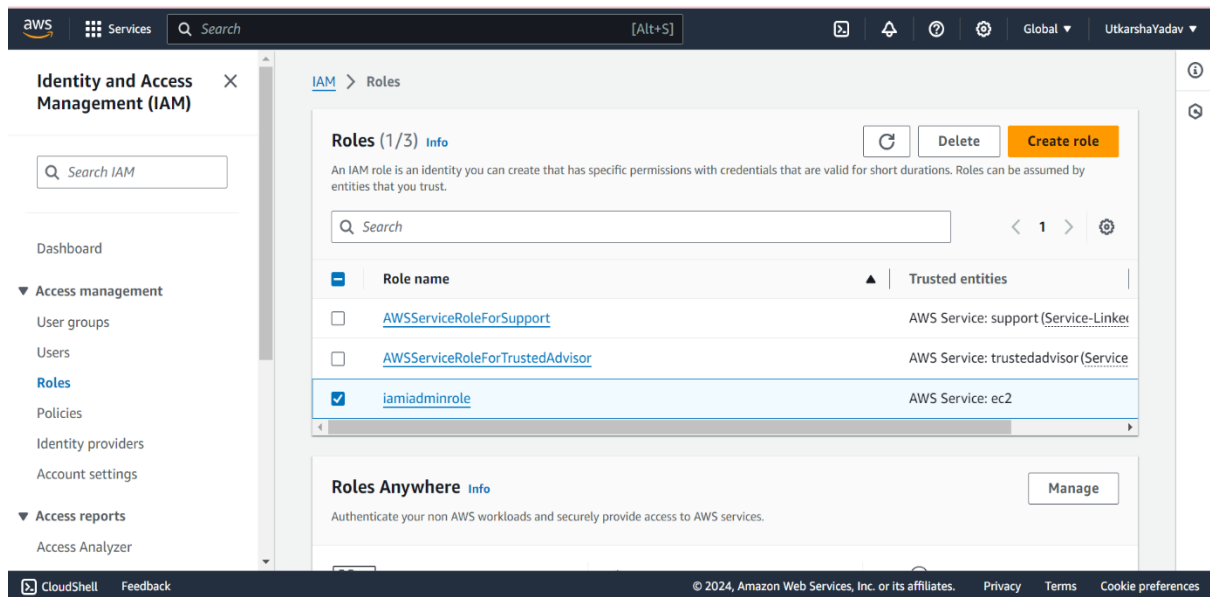
C:\Windows\System32>
```

Group:-

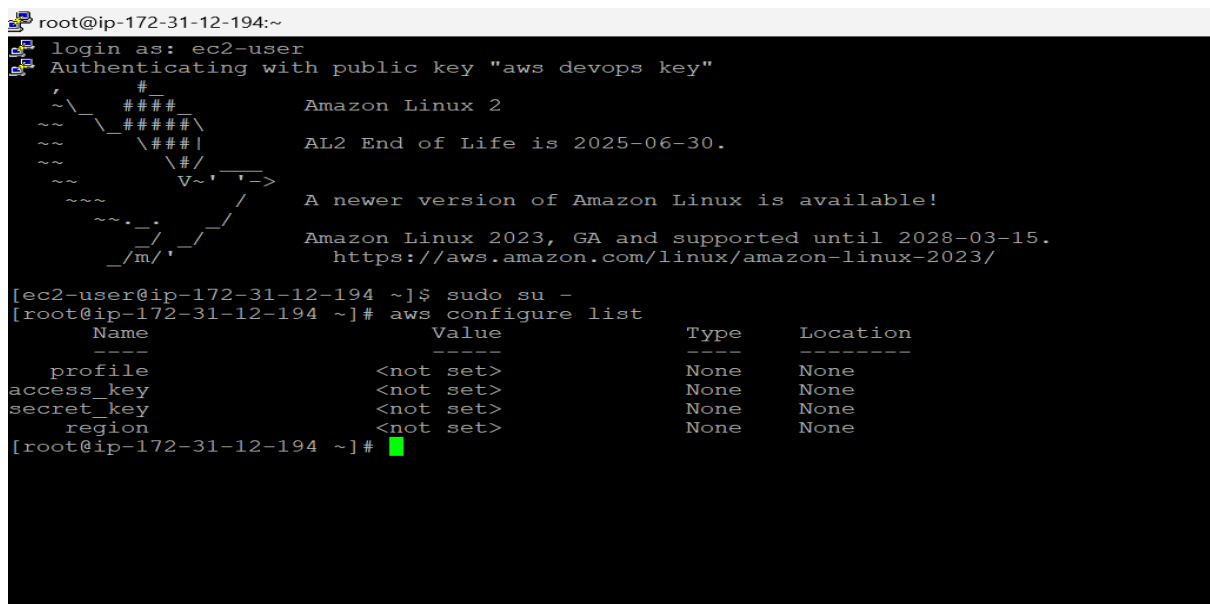
```
C:\Windows\System32>aws iam create-group --group-name airlines
{
  "Group": {
    "Path": "/",
    "GroupName": "airlines",
    "GroupId": "AGPAU6GDWMCBUYGGIIGAF",
    "Arn": "arn:aws:iam::339712827523:group/airlines",
    "CreateDate": "2024-09-22T17:15:26+00:00"
  }
}

C:\Windows\System32>
```

Creating IAM Role and Assign IAMfullaccess:-



EC2 Instance login through Putty:-



Connect IAM Role to EC2 Instance

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity', 'Reservations', 'Images', 'AMIs', and 'AMI Catalog'. The 'Instances' section is selected, showing a table with one instance: 'linuxVM' (ID: i-087e4c91d5dee23cb), which is in the 'Running' state. Below the table, the details for instance 'i-087e4c91d5dee23cb (linuxVM)' are displayed. The 'IAM Role' is 'iamadminrole', the 'Subnet ID' is 'subnet-04e1727b78275e847', and the 'Instance ARN' is 'arn:aws:ec2:ap-south-1:339712827523:instance/i-087e4c91d5dee23cb'.

Check if IAM Role is connected to EC2 through CLI

```
[root@ip-172-31-12-194 ~]# aws configure list
      Name                               Value                                Type    Location
      ----                               -
      profile                            <not set>                           None    None
      access_key                         *****B5G0                         iam-role
      secret_key                         *****MsRT                         iam-role
      region                             <not set>                           None    None
[root@ip-172-31-12-194 ~]#
[root@ip-172-31-12-194 ~]#
```

Now check if you can Create user through CLI

```
[root@ip-172-31-12-194 ~]# aws iam create-user --user-name india
{
  "User": {
    "UserName": "india",
    "Path": "/",
    "CreateDate": "2024-09-23T11:59:32Z",
    "UserId": "AIDAU6GDWMCBSK4CPBJMO",
    "Arn": "arn:aws:iam::339712827523:user/india"
  }
}
[root@ip-172-31-12-194 ~]#
```

```

$ login as: ec2-user
Authenticating with public key "aws devops key"
Last login: Mon Sep 23 11:52:33 2024 from 42.111.103.44

#_
~\##### Amazon Linux 2
~~\#####\
~~\###| AL2 End of Life is 2025-06-30.
~~\#/
~~V_-'->
~~~
~~~ / A newer version of Amazon Linux is available!
~~~ _./
~~~ /_/_/ Amazon Linux 2023, GA and supported until 2028-03-15.
~~~ /m/' https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-12-194 ~]$ aws configure list
      Name                               Value                                Type    Location
      ----                               -
profile                               <not set>                            None     None
access_key                           *****C3DT                          iam-role
secret_key                           *****W1ZR                          iam-role
region                               <not set>                             None     None

[ec2-user@ip-172-31-12-194 ~]$ aws configure list
      Name                               Value                                Type    Location
      ----                               -
profile                               <not set>                            None     None
access_key                           <not set>                             None     None
secret_key                           <not set>                             None     None
region                               <not set>                             None     None

[ec2-user@ip-172-31-12-194 ~]$ aws configure
AWS Access Key ID [None]: AKIAU6GDWMCBQXIDOHUA
AWS Secret Access Key [None]: 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
Default region name [None]: ap-south-1
Default output format [None]: json

[ec2-user@ip-172-31-12-194 ~]$ aws configure list
      Name                               Value                                Type    Location
      ----                               -
profile                               <not set>                            None     None
access_key                           *****OHUA shared-credentials-file
secret_key                           *****b4g7 shared-credentials-file
region                               ap-south-1 config-file ~/\.aws/config

[ec2-user@ip-172-31-12-194 ~]$ █

```