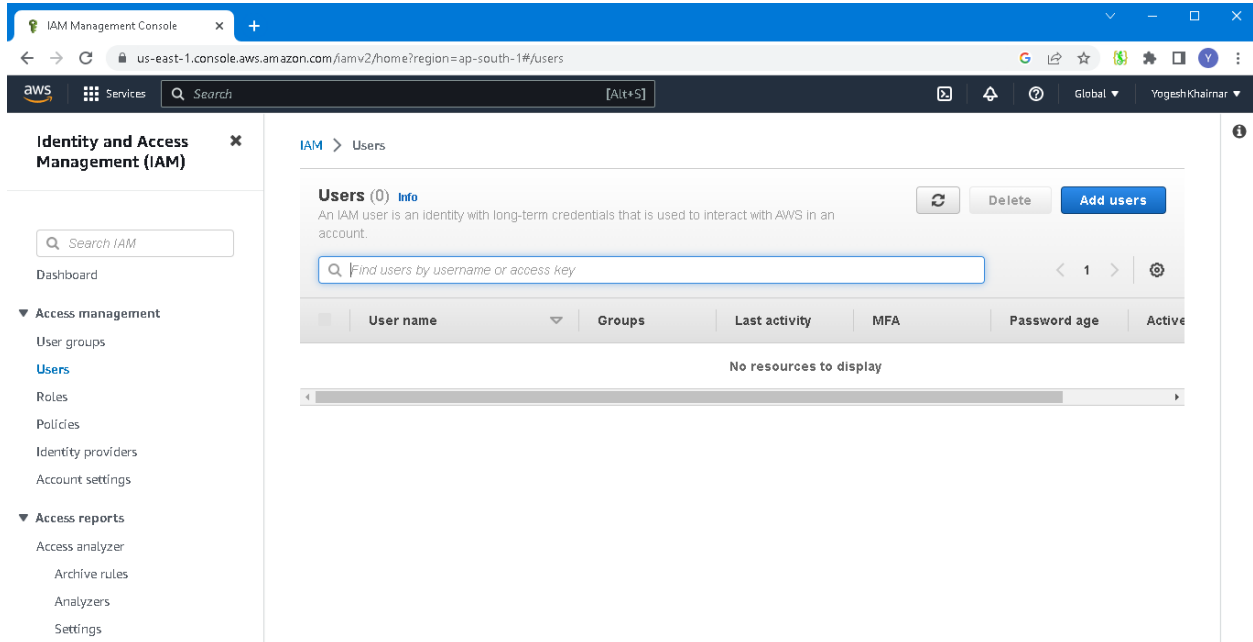


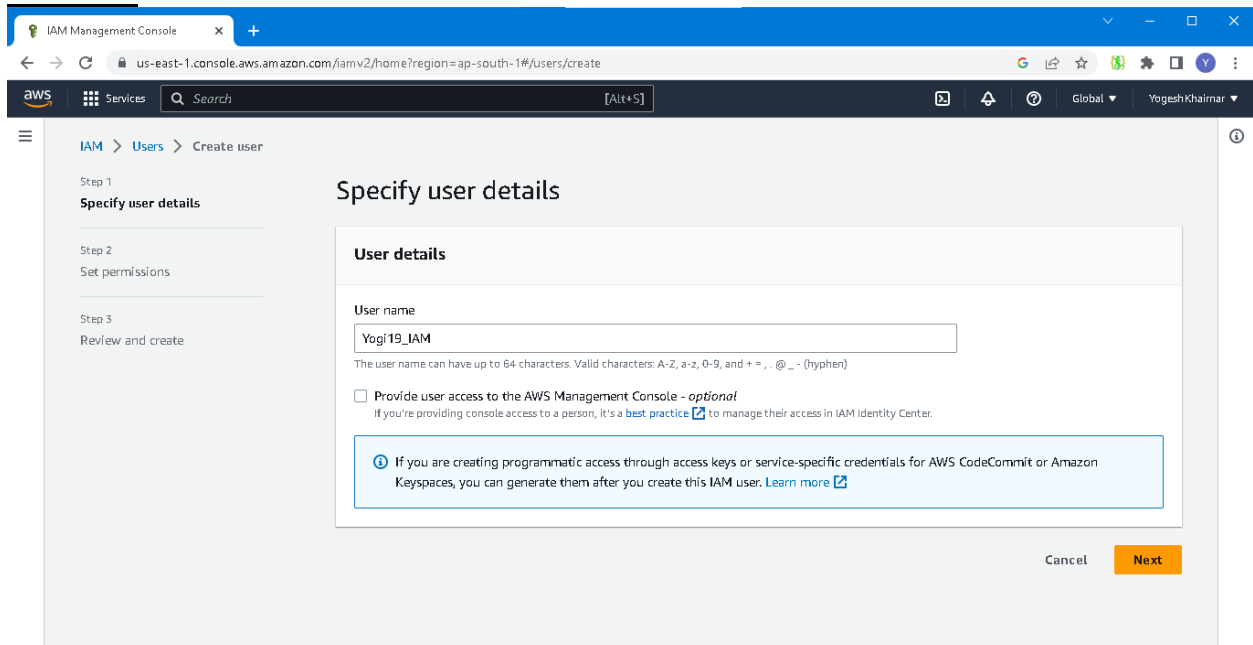
# AWS CLI Practical-Launching EC2 Instance and Creating S3 Bucket

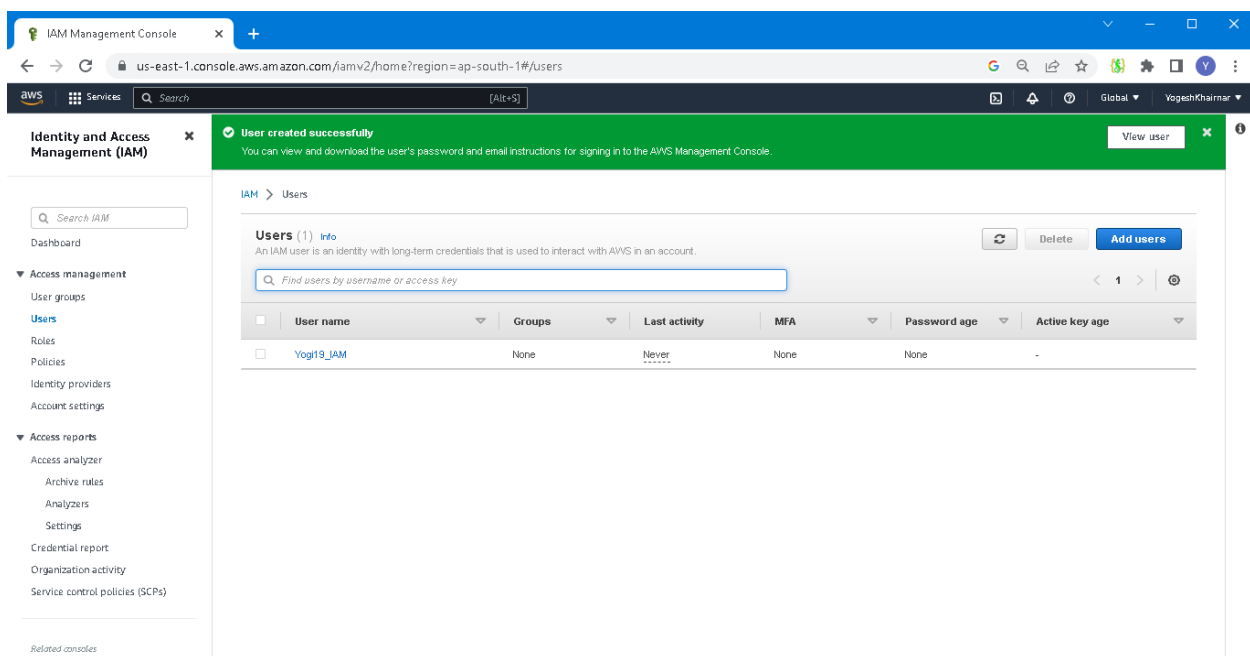
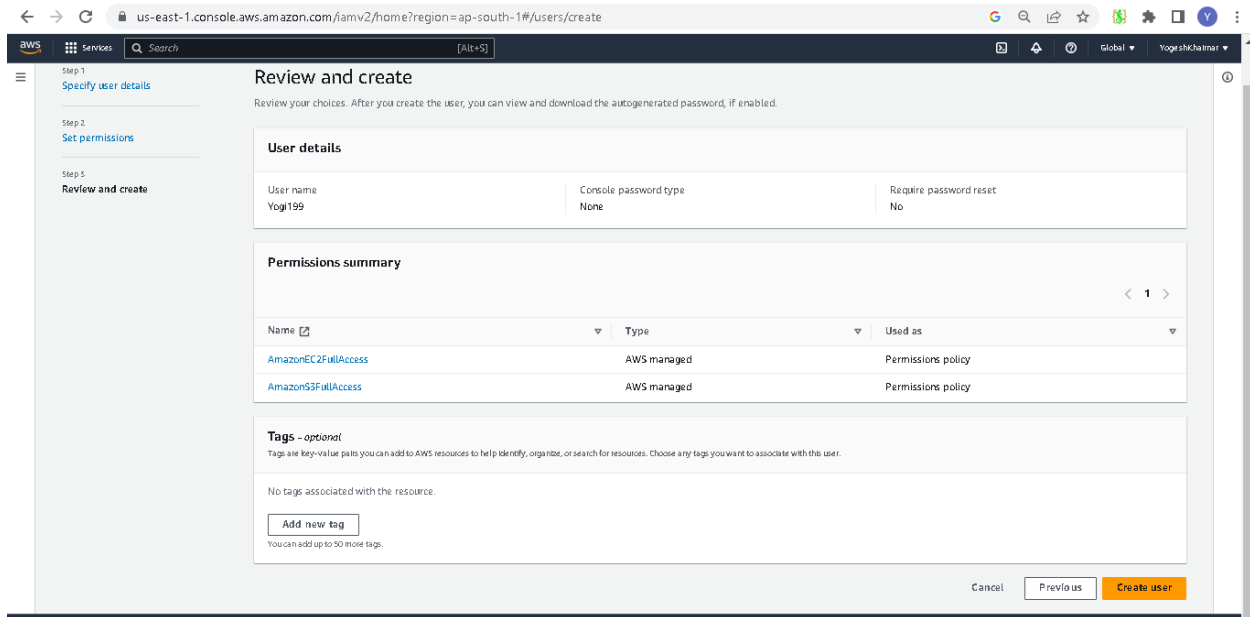
## Step 1:- Create a IAM user Account.

### Go to IAM >User > Add User



## Step 2:-Specify user details (give username – click on next)>set permission(attach policies- click on next)>Click create user>user will be created.





### Step 3:- Give user a password.

Click on user >Security Credential>Console signin>Enable Console Access

The screenshot shows the AWS IAM console for a user named 'Yogi19\_IAM'. The 'Security credentials' tab is active, displaying the 'Console sign-in' section. A button labeled 'Enable console access' is visible. The 'Summary' section shows the user's ARN as 'arn:aws:iam::680619236094:user/Yogi19\_IAM', created on May 06, 2023, and console access is currently disabled. The 'Multi-factor authentication (MFA)' section shows options to remove, resync, or assign an MFA device.

### Manage console access >enable the console access and set the password>Apply

The screenshot shows the 'Manage console access' dialog box in the AWS IAM console. The 'Enable' option for console access is selected. In the 'Set password' section, 'Custom password' is selected, and a password field is visible. The 'Apply' button is highlighted in orange.

### Step 4:-Go to IAM user page>click on user>Security Credential>Click On Create Access Key>Access key best practices & alternative(Select CLI)>Access key will be created>save that Access key & Secret access key.

## Step 5:-Launch EC2 Instance(In my case,I have used ubuntu)>Install aws cli by using commands.

```
sudo apt-get update
```

```
sudo apt-get install awscli
```

```
ubuntu@ip-172-31-40-21:~$ sudo apt-get install awscli
Reading package lists... Done
```

## Step 6:-Configure aws cli by giving the access key id and secret key(Region you may give of you choice).

```
ubuntu@ip-172-31-40-21:~$ aws configure
AWS Access Key ID [None]: AKIAZ46ARLL7CZLZG6BT
AWS Secret Access Key [None]: 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
Default region name [None]: ap-south-1
Default output format [None]:
```

## Step 7:-Launch EC2 Instance in awc cli.

For that we have to give these command

**aws ec2 run-instances --image-id "copy the ami id from instance page" --count 1 --instance-type t2.micro --key-name "key name which you have created"**

```
ubuntu@ip-172-31-40-21:~$ aws ec2 run-instances --image-id ami-02eb7a4783e7e9317 --count 1 --instance-type t2.micro --key-name win_key
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 0,
      "ImageId": "ami-02eb7a4783e7e9317",
      "InstanceType": "t2.micro",
      "KeyName": "win_key",
      "SubnetId": "subnet-0a1b2c3d",
      "VpcId": "vpc-0a1b2c3d",
      "Placement": {
        "AvailabilityZone": "ap-south-1a",
        "Group": "default",
        "Tenancy": "default"
      },
      "Monitoring": {
        "Enabled": false
      },
      "NetworkInterfaces": [
        {
          "DeviceIndex": 0,
          "SubnetId": "subnet-0a1b2c3d",
          "PrivateIpAddress": "172.31.40.21",
          "PrivateDnsName": "ip-172-31-40-21.ap-south-1.compute.amazonaws.com"
        }
      ],
      "State": {
        "Name": "pending",
        "Reason": "Pending"
      },
      "Tags": [],
      "UserData": ""
    }
  ]
}
```

You can see the instance is created

The screenshot shows the AWS Management Console interface for the 'Instances' page. The left sidebar contains navigation links for 'New EC2 Experience', 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Limits', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'AMIs', and 'AMI Catalog'. The main content area displays a table of instances. The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. Two instances are listed: 'demo1' with ID 'i-05bed266bfd5d97f4' and a new instance with ID 'i-0f7678fbd752c4411'. Both are in a 'Running' state. The new instance is highlighted with a red box. Below the table, there is a 'Select an instance' dialog box.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
demo1	i-05bed266bfd5d97f4	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a
-	i-0f7678fbd752c4411	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

## Step 8:-Create a s3 bucket.

for that use the following command

```
aws s3api create-bucket --bucket clibucket12 --region us-east-1
```

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation links for 'Buckets', 'Access Points', 'Object Lambda Access Points', 'Multi-Region Access Points', 'Batch Operations', 'IAM Access Analyzer for S3', 'Block Public Access settings for this account', 'Storage Lens', 'Dashboards', 'AWS Organizations settings', and 'Feature spotlight'. The main content area is titled 'Amazon S3 > Buckets'. It includes an 'Account snapshot' section with a 'View Storage Lens dashboard' button. Below this is a 'Buckets (2)' section with a search bar and a table of buckets. The table has columns for Name, AWS Region, Access, and Creation date. Two buckets are listed: '03demobucket' and 'clibucket12'. The 'clibucket12' row is highlighted with a red border. The 'Create bucket' button is visible in the top right of the buckets section.

Name	AWS Region	Access	Creation date
03demobucket	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	May 7, 2023, 09:42:16 (UTC+05:30)
clibucket12	US East (N. Virginia) us-east-1	Bucket and objects not public	May 7, 2023, 21:54:24 (UTC+05:30)